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OHBM 2021 Abstracts

1042 Cortical Thickness, Surface Area and Volume in the Reading Network of Children with Dyslexia

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1050 The Effect of Scan Length on Reliability of Resting-State fMRI in Awake and under Anesthesia

Faezeh Vedaei[1], Mahdi Alizadeh[1], Sara Thalheimer[1], Victor Romo[1], Feroze Mohamed[1], Chengyuan Wu[1]
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1051 Divergence of cortical asymmetry and atrophy in temporal lobe epilepsy: A worldwide ENIGMA study

Bo-yong Park[1], Sara Larivière[1], Raul Rodríguez-Cruces[1], Jessica Royer[1], Shahin Tavakol[1], Yezhou Wang[1], Lorenzo Caciagli[2], Sanjay Sisodiya[2], Paul Thompson[3], Carrie McDonald[4], Andrea Bernasconi[1], Neda Bernasconi[1], Boris Bernhardt[1]
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1054 Dimorphic Sex Differences in Brain Viscoelastic Properties from Childhood to Adulthood

Grace McIlvain[1], Julie Schneider[1], Melanie Matyi[1], Matthew McGarry[2], Jeffrey Spielberg[1], Curtis Johnson[1]
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1060 Brain Information Processing in Different Modalities: from Activation to Connectivity

Juhyeon Lee[1], Hyun-Chul Kim[2], Jinsu Kim[1], Sungman Jo[1], Minyoung Jung[1], Jong-Hwan Lee[1]
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1063 Brain-behavior prediction using partial least squares regression in older adults

Michelle Karker[1,2], Douglas Noll[1,2,3], Benjamin Hampstead[4,5], Scott Peltier[2]
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1069 Heterogeneous age dependency in the human superior longitudinal fasciculus

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1087 Enhanced activity in DMN (Precuneus) on Resting state fMRI, with Spiritual Practice

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1088 Temporal structure of brain oscillations is a neural marker of pain and predicts nocebo magnitudes

Mia Thomaidou[1], Joseph Blythe[1], Simon Houtman[2], Judy Veldhuijzen[1], Antoinette van Laarhoven[1], Andrea Evers[1]
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1094 Tissue properties along the corticospinal tract of the wheelchair racing athlete: a case study

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1096 Intracranial brain stimulation modulates fMRI-based network switching

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1098 Two methods to generate an ODF-dictionary for ODF-Fingerprinting

Patryk Filipiak[1], Ying-Chia Lin[1], Dimitris Placantonakis[2], Timothy Shepherd[1], Fernando Boada[1], Steven Baete[1]
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1099 Disrupted Resting-State Regional Homogeneity in Patients with Disorders of Consciousness

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1100 Lesion covariance networks reveal proposed origins and pathways of glioma tumors

Ayan Mandal[1], Rafael Romero-Garcia[1], Jakob Seidlitz[2], Michael Hart[1], Aaron Alexander-Bloch[2], John Suckling[1]

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1101 Decoding Movie Clip Identities from Brain Hemodynamics with High-Density Diffuse Optical Tomography

Zachary Markow[1], Kalyan Tripathy[1], Jason Trobaugh[1], Alexandra Svoboda[2], Mariel Schroeder[3], Sean Rafferty[1], Edward Richter[1], Adam Eggebrecht[4], Mark Anastasio[5], Joseph Culver[1]

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1102 Grounding adaptive cognitive control in the functional brain organization: a resting state EEG study

Gian Marco Duma[1], Maria Grazia Di Bono[1], Giovanni Mento[1]

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1103 Investigating cerebral hemodynamics in an acute double-blind trial for refractory bipolar depression

William Kim[1,2], Mikaela Dimick[3,4], Danielle Omrin[3], Beverley Orser[3,5], Benjamin Goldstein[3,4,6], Bradley MacIntosh[1,2]

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1104 Investigating Brain States within Eyes Open / Eyes Closed rs-fMRI with Hidden Markov Modelling

Brandon Ingram[1], Stephen Mayhew[1], Andrew Bagshaw[1]

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1105 Effects of auditory and visual stimulation on homo-, cross and hetero-modal brain networks

Anissa Lintang Ramadhani[1,2], Ali-Reza Mohammadi-Nejad[1,2,3], Katrin Krumbholz[2,4], Dorothee Auer[1,2,3]

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1106 Localization of hypothalamic nuclei using resting-state functional connectivity in standard voxels

Akitoshi Ogawa[1], Takahiro Osada[1], Masaki Tanaka[1], Koji Kamagata[1], Shigeki Aoki[1], Seiki Konishi[1]

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1107 Few-shot subcortical brain structure segmentation in 3D fetal brain ultrasound

Linde Hesse[1], Moska Aliasi[2], Aris Papageorghiou[3], Monique Haak[2], Weidi Xie[4], Mark Jenkinson[5,6,7], Ana Namburete[1]

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1108 The neural basis of conceptual processing – A meta-analysis of 214 functional neuroimaging studies

Philipp Kuhnke[1], Marie Beaupain[1], Johannes Arola[1], Markus Kiefer[2], Gesa Hartwigsen[1]

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1110 Myelination Measurement in Early Brain Development with Quantitative MRI

Masaya Misaki[1], Florence Breslin[1], Amanda Morris[2], Naoyuki Takei[3], Julie Croff[4], Jerzy Bodurka[1,5]

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1112 Issues of Reproducibility in a Commonly Used Approach for Independent Components Analysis in fMRI

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1114 Optimization of isometric hand-grip tasks for use in fMRI studies of motor control

Neha Reddy[1,2], Kristina Zvolanek[1,2], Andrew Vigotsky[1,3], Molly Bright[1,2]

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1115 Framework to optimize breathing task designs for mapping CO2 effects in BOLD fMRI data

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1117 From brain to body: Learning respiration and heart rate fluctuations from fMRI data

Roza Bayrak[1], Colin Hansen[1], Nafis Ahmed[1], Jorge Salas[1], Benjamin Gold[1], Ilwoo Lyu[1], Yuankai Huo[1], Catie Chang[1]

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1118 Complementary Roles for Neural Synchrony and Complexity in Acute Coma

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1122 Dynamic Transitions of EEG Power during Sleep Inertia Following Different Nap Durations

Wen-Chi Chiu[1], Shan-Cheng Chiu[2], Fan-Chi Hsiao[3], Yi-Chia Kung[4], Chien-Ming Yang[2], Hsin-Chien Lee[1], Changwei Wu[1]

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1123 Validation of High-Performance Low-Field-Strength T1-weighted neuroimaging sequence modelling

Tom Whyntie[1], Kwun-Ye Chu[1], Versha Dhanda[2], Donna Hughes[2], Tejal Patel[2], Suliana Teoh[1], Tim Maughan[1]

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1124 Enlarged Perivascular Spaces: Automated Segmentation, Neuropathologic and Cognitive Correlates

Carles Javierre-Petit[1], Ashish Tamhane[2], Arnold Evia[1], Marinos Kontzialis[2], Nazanin Makkinejad[1], Gady Agam[1], David Bennett[2], Julie Schneider[2], Konstantinos Arfanakis[1]

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1128 Effects of rTMS on treatment of cognitive deterioration in patients with MCI: a meta-analysis

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1129 An edge-centric model for harmonizing multi-relational network datasets

Joshua Faskowitz[1], Jacob Tanner[1], Bratislav Misic[2], Rick Betzel[1]

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1131 Task-induced reconfiguration of edge functional connectivity and communities

Rick Betzel[1], Joshua Faskowitz[1], Farnaz Zamani Esfahlani[1], Youngheun Jo[1], Haily Merritt[1], Jacob Tanner[1], Sarah Cutts[1], Maria Pope[1], Evgeny Chumin[1], Olaf Sporns[1]

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1133 Shared functional connectivity features predict individual cognitive abilities in males and females

Elvisha Dhamala[1], Keith Jamison[1], Abhishek Jaywant[1], Amy Kuceyeski[2]

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1134 Edge time series reveal fast network dynamics in task-free and naturalistic conditions

Jacob Tanner[1], Lisa Byrge[1], Farnaz Zamani Esfahlani[1], Daniel Kennedy[1], Olaf Sporns[1], Richard Betzel[1]

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1137 Personalized event structure drives whole-brain functional connectivity

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1138 Hippocampal Subfield Atrophy in relation with CSF biomarkers and cognitive decline in AD

Guodong Liu[1], Chaoqiang Liu[1], Anqi Qiu[1]

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1139 Child Brain Functional Atlases from Infancy to Childhood

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1141 The Digital Brain Bank, an open access data discovery & release platform for post-mortem datasets

Benjamin Tendler[1], Taylor Hanayik[1], Sean Foxley[2], Amy Howard[1], Menuka Pallebage-Gamarallage[3], Lea Roumazeilles[4], Katherine Bryant[1], Jerome Sallet[4,5], Alexandre Khrapitchev[6], Istvan Huszar[1], Chaoyue Wang[1], Ricarda Menke[1], Adele Smart[1,3], Jeroen Mollink[1], Duncan Mortimer[1], Martin Turner[1,3], Olaf Ansorge[3], Saad Jbabdi[1], Rogier Mars[1,7], Karla Miller[1]

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1142 Multivariate associations of brain function, structure, and mental health disorders in adolescents

Mingu Kim[1], David Pagliaccio[2], Robert Jones[1], Aude Henin[3], Stefan Hofmann[4], Diego Pizzagalli[5], John Gabrieli[6], Randy Auerbach[2], Susan Whitfield-Gabrieli[7], Anastasia Yendiki[1]

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1143 The Brain Activation-based Sexual Image Classifier

Sophie van t Hof[1], Lukas van Oudenhove[2], Sanja Klein[3], Marianne Reddan[4], Philip Kragel[5], Rudolf Stark[3], Tor Wager[1]

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1144 Quantitative Magnetic Resonance Imaging for Hypothalamus Segmentation and White Matter Extraction

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1145 Hippocampal Metabolic Subregions in Healthy Older and Their Profiles in Neurodegeneration

Somayeh Maleki Balajoo[1,2], Simon Eickhoff[1,2], Shahrzad Kharabian Masouleh[1,2], Anna Plachti[1,2], Laura Waite[1], Felix Hoffstaedter[1], Nicola Palomero-Gallagher[3,4,5], Sarah Genon[1,2]

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1146 Network Interdigitations of Tau and Amyloid-beta Deposits Define Cognitive Levels in Aging

Chan-Mi Kim[1], Victor Montal[2], Ibai Diez[1], William Orwig[1], Jorge Sepulcre[1]

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1147 Altered interactions among resting-state networks in female patients with functional constipation

Lei zhang[1], Guanya Li[1], Zhenzhen Jia[1], Zongxin Tan[1], Hao Li[1], Shuai Lv[1], Yongzhan Nie[2], Yi Zhang[1]

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1148 Correlating fNIRS with Underlying Brain Regions in Infants in the First Two Years of Life

Lin Cai[1], Eiji Okada[1], Yasuyo Minagawa[1], Hiroshi Kawaguchi[1,2]

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1151 Abnormal dynamic community structure in unmedicated major depressive disorder

Xiaoying Zhang[1,2], Huawang Wu[3], Junchao Li[4], Yuling Guan[1,2], Lixin Qiu[1,2], Senning Zheng[1,2], Ruiwang Huang[1,2]

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1153 Atrophy Progression in Parkinson's Disease is Associated with Connectivity and Synaptic Activity

Christina Tremblay[1], Shady Rahayel[1,2], Andrew Vo[1], Filip Morys[1], Golia Shafiei[1], Ross Markello[1], Bratislav Misic[1], Ziv Gan-Or[1], Alain Dagher[1]

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1155 Peripheral oxytocin levels are linked to hypothalamic brain volume in adults with autism (ASD)

Raoul Haaf[1,2], Marie-Luise Brandi[1], Laura Albantakis[1,3,4], Lara Henco[1,5], Leonhard Schilbach[1,3,4,5,6]

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1158 Drumming as a Tool for Promoting functional Brain Plasticity: Functional Magnetic Resonance Imaging

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1160 Real-time fNIRS neurofeedback improves eating behavior and cognitive function in overweight subjects

Shuai Lv[1], Wenchao Zhang[1], Guanya Li[1], Zongxin Tan[1], Lei Zhang[1], Hao Li[1], Zhenzhen Jia[1], Yongzhan Nie[2], Gang Ji[2], Yi Zhang[1]

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1162 Abnormal DFC between basal ganglia and salience networks in individuals with obesity

Zongxin Tan[1], Guanya Li[1], Hao Li[1], Zhenzhen Jia[1], Lei Zhang[1], Gang Ji[2], Gene-Jack Wang[3], Yi Zhang[1]

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1163 Permutation-based Testing of Intermodal Correspondence within Large-scale Functional Networks

Sarah Weinstein[1], Simon Vandekar[2], Azeez Adebimpe[1], Tinashe Tapera[1], Timothy Robert-Fitzgerald[1], Ruben Gur[1], Raquel Gur[1], Armin Raznahan[3], Theodore Satterthwaite[1], Aaron Alexander-Bloch[1], Russell Shinohara[1]

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1165 Bariatric surgery improves structural connectivity of insula related network in obese patients

Hao Li[1], Yang Hu[1], Guanya Li[1], Zhenzhen Jia[1], Zongxin Tan[1], Lei Zhang[1], Gang Ji[2], Gene-Jack Wang[3], Yi Zhang[1]

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1168 Implicit Learning – a search for the non-linguistic source of decreased literacy skills

Marta Wójcik[1], Katarzyna Chyl[1], Agnieszka Dynak[2], Gabriela Dzięgiel-Fivet[1], Magdalena Łuniewska[2], Joanna Plewko[1], Katarzyna Jednoróg[1], Agnieszka Dębska[1]

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1169 Greater impulsivity is associated with abnormality of executive control network in obese patients

Wenchao Zhang[1], Guanya Li[1], Yang Hu[1], Jia Wang[1], Hao Li[1], Gang Ji[2], Peter Manza[3], Nora Volkow[3], Gene-Jack Wang[3], Yi Zhang[1]

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1171 Assessing the reliability of subcortical-subcortical structural connectivity using MRI

Jason Kai[1], Ali Khan[2], Roy Haast[1], Jonathan Lau[1]

[1]University of Western Ontario, London, Ontario, [2]Robarts Research Institute, London, Ontario

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1172 Subcortical Gray Matter Volume Varies with the Trajectory of Adolescent Substance Use

Juliann Purcell[1], Nathaniel Harnett[2,3], Sylvie Mrug[1], Marc Elliott[4], Susan Tortolero Emery[5], Mark Schuster[6], David Knight[1]

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1174 Frontal regions associated with attention connect more strongly to central than peripheral V1

Sara Sims[1], Pinar Demirayak[1], Kristina Visscher[1]

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1175 The Impact of Early Childhood Malnutrition on the Adult Brain: Preliminary NIRS results

Kassandra Roger[1], Phetsamone Vannasing[1], Julie Tremblay[1], Maria Bringas Vega[2], Cyralene Bryce[3], Arielle Rabinowitz[4], Pedro Valdés-Sosa[2], Janina Galler[5], Anne Gallagher[1]

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1176 Functional Networks Disrupted by White Matter Hyperintensities, Impaired Mobility, and Falls

Rachel Crockett[1], Chun Liang Hsu[2], Elizabeth Dao[1], Roger Tam[1], Janice Eng[1], Todd Handy[1], Teresa Liu-Ambrose[1]

[1]University of British Columbia, Vancouver, BC, [2]Marcus Institute for Aging Research, Boston, MA

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1177 Age-related cortical perfusion changes and their impact on assessing functional connectivity

Roy Haast[1], Sriranga Kashyap[2], Loxlan Kasa[1], Ali Khan[1]

[1]Western University, London, Ontario, [2]Maastricht University, Maastricht, Limburg

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1178 Structural volumes and covariance corresponding to chronic pain in fibromyalgia

Pei-Lin Lee[1], Hung-Yu Liu[2,3], Yen-Feng Wang[2,3], Shih-Pin Chen[2,3,4,5], Kuan-Lin Lai[2,3], Ching-Po Lin[1], Shuu-Jiun Wang[2,3,4], Wei-Ta Chen[2,3,4], Kun-Hsien Chou[4,1]

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1179 Brain microstructural changes in female patients with functional constipation

Zhenzhen Jia[1], Guanya Li[1], Yang Hu[1], Zhida Zhang[1], Hao Li[1], Lei Zhang[1], Yongzhan Nie[2], Yi Zhang[1]

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1180 Enhanced Thalamocortical Functional Connectivity in Brains with Glioma at 7T

Siqi Cai[1,2], Yuchao Liang[3], Huilou Liang[4,2], Chunxiang Jiang[1,2], Shihui Zhou[1,2], Rong Xue[4], Lei Wang[3], Lijuan Zhang*[1]

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1182 Associations between age, socioeconomic status, and brain network connectivity in childhood

Christina Recto[1], Ursula Tooley[1], Danielle Bassett[1], Allyson Mackey[1]

[1]University of Pennsylvania, Philadelphia, PA

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1185 Cortical Networks of Creative Ability Trace Gene Expression Profiles of Synaptic Plasticity

William Orwig[1], Ibai Diez[1], Elisenda Bueicheku[1], Patrizia Vannini[2], Roger Beaty[3], Jorge Sepulcre[1]

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1187 Exploring feature similarity gradients in the preterm neonatal cortex

Paola Galdi[1], Manuel Blesa[1], Claude Bajada[2], Gemma Sullivan[1], David Stoye[1], Gillian Lamb[1], Alan Quigley[3], Antonios Makropoulos[4], Michael Thrippleton[1], Mark Bastin[1], James Boardman[1]

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Jian Lin[1], Wanyong Shin[1], Stephen Jones[1], Katherine Koenig[1], Mark Lowe[1]

[1]The Cleveland Clinic, Cleveland, OH

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1189 Associations between brain structure, satellite-derived physical signatures and mental disorders

Yi-An Liao[1], Liliana Garcia-Mondragon[1], Xiaoxuan Liu[2], Alex Ing[3], Le Yu[2], Gunter Schumann[1]

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1190 Tractography in a Human Phantom Accurately Maps Normal Corpus Callosum and Injured Foci

Jacqueline Chen[1], Ken Sakaie[1], Mark Lowe[1], Andre Machado[1], Stephen Jones[1]

[1]The Cleveland Clinic, Cleveland, OH

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1192 The reduced benefit of sleep in the realization of solutions to problems: Impact of age

Balmeet Toor[1], Nicholas van den Berg[1], Alyssa Pozzobon[1], Maddie Stewart[1], Laura Ray[1], Lydia Fang[1], Harleen Toor[1], Stuart Fogel[1]

[1]The University of Ottawa, Ottawa, Ontario

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1194 Decoding Neural Correlates of Cognitive Task Performance with Random Forest Classifiers

Corey Richier[1], Kamalani Fielder[1], Kyle Baacke[1], Wendy Heller[1]
[1] *University of Illinois at Urbana-Champaign, Champaign, IL*

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1195 Seed-based Correlation Analysis on Isolated Perfusion Lag Structure in the Resting-state fMRI Signal

Toshihiko Aso[1], Takuya Hayashi[1]
[1] *RIKEN Center for Biosystems Dynamics Research, Kobe, Hyogo*

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1197 Study on brain connectivity with functional near-infrared spectroscopy

Yi Hua Huang[1], Le Mei Wang[2], Po Han Chou[3], YI MIN WANG[4], Kun-Hsien Chou[5], Chung Ming Chen[1], Chia Wei Sun[4]
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1198 Tract-Based Spatial Statistics of Diffusion Tensor Imaging in Older Adults after the PICMOR Program

Hikaru Sugimoto[1], Mihoko Otake-Matsuura[1]
[1] *RIKEN, Tokyo, Japan*

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1201 A functional dissociation of posterior temporal lobe regions engaged by speech processing

Justyna Ekert[1], Andrea Gajardo-Vidal[1,2], Diego Lorca-Puls[1], Thomas Hope[1], Fred Dick[3,4], Jennifer Crinion[5], David Green[3], Cathy Price[1]
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1203 Correction of induced functional connectivity in filtered resting state fNIRS data

Mengmeng Wang[1,2], Catherine Davey[1,2], Leigh Johnston[1,2]
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1205 The Fronto-Parietal Network Is Not a Flexible Hub During Naturalistic Cognition

Chiara Caldinelli[1], Rhodri Cusack[2]
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1206 Mapping neurotransmitter receptor distributions to the connectivity and dynamics of the human brain

Justine Hansen[1], Golia Shafiei[1], Ross Markello[1], Gabriel Wainstein[2], James Shine[2], Alain Dagher[1], Bratislav Misic[1]
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1207 BIDS Statistical Models - An implementation-independent representation of General Linear Models

Christopher Markiewicz[1], Ross Blair[1], Katherine Bottenhorn[2], Gang Chen[3], Alejandro De La Vega[4], Elizabeth DuPre[5], Oscar Esteban[6], Satrajit Ghosh[7], John Lee[8], Camille Maumet[9], Manjari Narayan[1], Thomas Nichols[10], Dylan Nielson[8], Hernando Ombao[11], Russell Poldrack[1], Jean-Baptiste Poline[5], Adina Wagner[12], Tal Yarkoni[13]
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1209 Baseline white matter connectivity disruption predicts the development of dementia in PD-MCI

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Martin Grignard[1], Christophe Geuzaine[2], Christophe Phillips[3]
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1212 Fractal dimension of DTI-derived WM skeleton is reduced in CADASIL

Chiara Marzi[1], Marco Giannelli[2], Andrea Bianchi[3], Emilia Salvadori[4], Francesca Pescini[5], Leonardo Pantoni[6], Mario Mascalchi[3], Stefano Diciotti[1,7]
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1214 A Comparison of Multimodal vs Unimodal Registration Accuracy Using Task fMRI

Frederik Lange[1], Stephen Smith[1], Christoph Arthofer[1], Jesper Andersson[1]
[1] *University of Oxford, Oxford, Oxfordshire*

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1216 Predictions of probabilistic sequences of environmental sounds

Pinar Göktepe[1], Jahan Gani-zana[2], Tommaso Fedele[2], Athina Tzovara[1,3,4]
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1217 Multiplex connectome changes across the Alzheimer's spectrum

Anna Canal Garcia[1], Emiliano Gómez Ruiz[2], Mite Mijalkov[1], Giovanni Volpe[2], Joana Pereira[1]
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1219 Memory Trace Expansion and Evolution: Medial Temporal Lobe Activation and Connectome 7T Evidence

Thomas Vanasse[1], Melanie Boly[1], Emily Allen[2], Yihan Wu[2], Thomas Naselaris[3], Kendrick Kay[2], Giulio Tononi[1]
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1222 Activity in cerebellum correlate with the negative bias of facial emotion recognition in depression

Anna Nakamura[1], Yukihito Yomogida[2], Miho Ota[3], Junko Matsuo[2], Ikki Ishida[2], Shinsuke Hidese[2], Hiroshi Kunugi[4]
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1223 Restricted smoothing of spinal cord fMRI data resolves structured temporal variation in heatmaps

Kimberly Hemmerling[1], Molly Bright[1]
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1225 Cortical surface-based analysis of owl monkeys using high-resolution MRI

Takuro Ikeda[1], Akihiro Kawasaki[1], Chiho Takeda[1], Takayuki Ose[1], Joonas Autio[1], Masahiko Takada[2], Matthew Glasser[3,4], David Van Essen[3], Takuya Hayashi[1]
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1226 Dynamic neurometabolic and functional changes in dorsolateral prefrontal cortex in working memory

Hyerin Oh[1], Ben Babourina-Brooks[1], Adam Berrington[1], Dorothee Auer[1], Henryk Faas[1], JeYoung Jung[1]
[1] *University of Nottingham, Nottingham, United Kingdom*

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1228 Towards a causal role of Broca's area in language: a TMS-EEG study on syntactic prediction

Matteo Maran[1,2], Ole Numssen[1], Gesa Hartwigsen[1], Angela Friederici[1], Emiliano Zaccarella[1]
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1229 Evaluating the capabilities and challenges of layer-fMRI VASO at 3T

Renzo Huber[1], Lisa Kronbichler[2], Rüdiger Stirnberg[3], Benedikt Poser[1], Sara Fernández-Cabello[4], Tony Stöcker[3], Martin Kronbichler[5]
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1230 Quantitative structural mapping of the lateral geniculate nucleus subdivisions in living human brain

Hiroki Oishi[1,2], Hiromasa Takemura[1,2], Kaoru Amano[1,2]
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1231 Protection Mechanism in Relatives of Schizophrenia Clients Hinted By a Repeated Long-Term DTI Scans

Yaron Caspi[1], René Mandl[1], Wiepke Cahn[1], René Kahn[2], Hilleke Hulshoff Pol[1]
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1233 Edge-centric analysis of time-varying functional brain networks with applications in autism spectrum

Farnaz Zamani Esfahlani[1], Lisa Byrge[1], Jacob Tanner[1], Olaf Sporns[1], Daniel Kennedy[1], Richard Betzel[1]
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1237 A comprehensive computational model of tauopathy progression using PET imaging

Arsalan Rahimabadi[1,2], Jean-Paul Soucy[1,3], Habib Benali[1,2]
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1238 A new tripartite landmark in human posterior cingulate cortex

Ethan Willbrand[1], Benjamin Parker[1], Tyler Hallock[1], Willa Voorhies[1], Lyndsey Aponik[2], Jacob Miller[1], Silvia Bunge[1], Brett Foster[2], Kevin Weiner[1]
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1239 White matter abnormalities in bipolar disorder and schizophrenia

Guorui Zhao[1], Way Lau[2], Chanyu Wang[1], Haifeng Yan[1], Chichen Zhang[3], Kangguang Lin[4], Shijun Qiu[5], Ruiwang Huang[6], Ruibin Zhang[1,7]
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1241 Characterizing reward system neural trajectories from adolescence to young adulthood

ZHIPENG CAO[1], Jonatan Ottino-Gonzalez[1], Renata Cupertino[1], Anthony Juliano[1], Bader Chaarani[1], Scott Mackey[1], Hugh Garavan[1]
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1242 Structural connectivity analysis in operculo-insular epilepsy

Sami Obaid[1], François Rheault[1], Manon Edde[1], Guido Guberman[2], Etienne St-Onge[1], Jasmeen Sidhu[1], Alain Bouthillier[3], Alessandro Daducci[4], Dang Nguyen[3], Maxime Descoteaux[1]
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1244 Phase Synchronization of Resting-State Brain Networks with the Gastric Basal Electrical Rhythm

Ann Choe[1], Bohao Tang[2], Kimberly Smith[3], Hamed Honari[4], Martin Lindquist[2], Brian Caffo[2], James Pekar[1]
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1245 Explainable Boosting Machine for predicting Alzheimer's disease: a Hippocampal Subfields study

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1247 Radial Correlation and Radial Similarity Contrast Reveal Abnormal Brain Networks in Dystonia

Satoru Kohno[1], Daisuke Sato[2], Nami Sumida[1], Yuki Matsumoto[1], Masafumi Harada[1], Koji Fujita[1]
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1248 Mapping structure to function and behavior with individual-level connectome embedding

Gidon Levakov[1], Joshua Faskowitz[2], Galia Avidan[1], Olaf Sporns[3]
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1250 Self-control impacts internet gaming disorder through dorsal cingulate – ventral striatal pathway

Liangyu Gong[1], Hui Zhou[1], Conghui Su[1], Wan Xi[1], Binyu Teng[1], Fengji Geng[1], Yuzheng Hu[1]
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1251 Connectivity of specific regions predicts fear and anger affect better than whole brain connectivity

Jianxiao Wu[1], Simon Eickhoff[1], Jingwei Li[1], Thomas Yeo[2], Sarah Genon[1]
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1252 Meta-Analytic Connectivity Modelling of Deception-Related Brain Regions

Sarah Meier[1], Don Robin[1], Kimberly Ray[2]
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1253 Shifting towards movie-watching fMRI to investigate emotional processing in adolescent depression

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1254 High-resolution whole-brain Conductivity Tensor Imaging of the human brain

Marco Marino[1], Lucilio Cordero-Grande[2], Dante Mantini[1], Giulio Ferrazzi[3]
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1255 Tracking rapid stimulus-driven BOLD oscillations using fast fMRI in the human primary motor cortex

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1256 Inhibitory Control over Reward in Dependent Smokers: An fMRI Study

Shivam Kalhan[1], Marta Garrido[1], Robert Hester[1]
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1257 Fibre-specific brain abnormalities in sports-related mild Traumatic Brain Injury

Remika Mito[1], Donna Parker[1], Mangor Pedersen[1,2], David Abbott[1,3], Michael Makdissi[4], Graeme Jackson[1,3,5]
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1259 Dyanmic funciontal connectivity reveals self-referential network predominating in older age

Lu Zhang[1,2,3], Jiajia Zhao[1], Qunjie Zhou[1], Zhaowen Liu[4,5], Yi Zhang[1], Wei Cheng[1], Weikang Gong[6], Xiaoping Hu[7], Wenlian Lu[1,2,8], Edward T. Bullmore[9,10], Chun-Yi Zac Lo[1], Jianfeng Feng[1,2,11,12]
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1260 The Altered Resting-state Functional Connectivity of Thalamus in Patients with Globus Pharyngeus

Yuening Jin[1], YI Du[2], Jingjie Zhao[2], Qian Zhao[2], Lianlu Gao[1], Li Li[2], Yuan Zhou[1]
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1263 Groupitizing modifies neural coding of numerosity

Elisa Castaldi[1], Paula Maldonado Moscoso[2], Giovanni Anobile[2], Roberto Arrighi[2], David Burr[2], Mark Greenlee[3]
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1264 Generalizing longitudinal age effects on brain structure: a two-study comparison approach

Christiane Jockwitz[1,2], Susan Mérillat[3], Franz Liem[3], Jessica Oschwald[3], Katrin Amunts[1,4], Lutz Jäncke[3,5], Svenja Caspers[1,2,6]
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1265 Incidental MRI findings and the cognitive performance in the elderly: the Shanghai Changfeng study

Liangqi Wang[1], Huandong Lin[1], Zehua Zhao[2], Lingyan Chen[3], Li Wu[1], Chun-Yi Zac Lo[4], Xin Gao[1]
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1266 The Development of Emotional Facial Expressions: a Topological Study on Infants

Silvia Polver[1], Ermanno Quadrelli[1,2], Elisa Roberti[1], Hermann Bulf[1,2], Chiara Turati[1,2]
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1267 Lateralization of human brain connectivity: a consequence of simple brain scaling principles?

Dirk Jan Ardesch[1], Lianne Scholtens[1], Siemon de Lange[1], Lea Roumazeilles[2], Alexandre Khrapitchev[2], Todd Preuss[3], James Rilling[3], Rogier Mars[4], Martijn van den Heuvel[5]
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1269 Dynamic effective connectivity in the motor network: investigating temporal changes during tDCS

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1270 Batch Effects are Causal Effects: Applications in Human Functional Connectomes

Eric Bridgefotrd[1], Michael Powell[1], Anton Alyakin[1], Ross Lawrence[1], Brian Caffo[1], Joshua Vogelstein[1]
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1271 An expanding manifold characterizes adolescent reconfiguration of structural connectome organization

Bo-yong Park[1], Richard Bethlehem[2], Casey Paquola[1], Edward T. Bullmore[3], Boris Bernhardt[1]

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1274 A multiscale cortical wiring space charts adolescent development of structural brain networks

Bo-yong Park[1], Casey Paquola[1], Richard Bethlehem[2], Oualid Benkarim[1], Edward T. Bullmore[3], Boris Bernhardt[1]

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1276 Reward Processing in Novelty Seekers: A Transdiagnostic Psychiatric Imaging Biomarker

Shile Qi[1], Gunter Schumann[2], Juan Bustillo[3], Jessica A. Turner[4], Rongtao Jiang[5], Dongmei Zhi[6], Victor M. Vergara[7], Xiaohong Ma[8], Xiao Yang[8], Tobias Banaschewski[9], Gareth J. Barker[2], Arun L.W. Bokde[10], Erin Burke Quinlan[2], Sylvane Desrivières[2], Herta Flor[11], Antoine Grigis[12], Hugh Garavan[13], Penny Gowland[14], Andreas Heinz[15], Jean-Luc Martinot[16], Marie-Laure Paillère Martinot[17], Eric Artiges[16], Frauke Nees[9], Dimitri Papadopoulos Orfanos[18], Tomáš Paus[19], Luise Poustka[20], Michael N. Smolka[21], Henrik Walter[22], Robert Whelan[23], Vince Calhoun[24], Jing Sui[25]

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1277 Characterization of early maternal immune activation on brain and behavior

Lani Cupo[1], Elisa Guma[2], Caitlin Fowler[2], Daniel Gallino[2], Kristie Mar[2], Masoumeh Dehghani[2], Gabriel Devenyi[2], Jamie Near[2], Mallar Chakravarty[3]

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1278 Childhood Maltreatment History Is Linked to Abnormal Brain Structure in Conduct Disorder

Marlene Staginnus[1], Harriet Cornwell[1], Maaike Oosterling[1], Michal Paradysz[1], Areti Smaragdi[2], Jack Rogers[3], Anne Martinelli[4], Nora Raschle[5], Gregor Kohls[6], Kerstin Konrad[6], Christina Stadler[5], Christine Freitag[4], Stephane De Brito[3], Graeme Fairchild[1]

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1280 Comparing classical and autoencoder multi-view methods for imaging genetics on a large-scale dataset

Ana Lawry Aguila[1], Adrià Casamitjana[1], Marco Lorenzi[2], Sanjay Sisodiya[3], Andre Altmann[1]

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1281 The relationship between EEG-fMRI connectomes is reproducible across studies from 1.5T to 7T

Jonathan Wirsich[1], João Jorge[2,3], Giannina Iannotti[1], Elhum Shamshiri[1], Frédéric Grouiller[4], Rodolfo Abreu[5,6], François Lazeyras[7], Anne-Lise Giraud[8], Rolf Gruetter[7,9,2], Sepideh Sadaghiani[10,11], Serge Vulliémoz[1]

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1282 Evaluation of the Correctness of Non-biological Sensory Events by Human Motor Cortical Circuits

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1283 Evaluation of thresholding methods for functional connectivity data using ground-truth simulations

Mackenzie Mitchell[1], Teague Henry[2], James Wilson[3], Jessica Cohen[1]

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1285 Linking callosal structure to uni- and bilateral motor task performance in younger and older adults

Nora Bittner[1,2], Clara Rentz[2], Jan Schreiber[2], Nur Genc[2,3], Katrin Amunts[2,4,5], Svenja Caspers[1,2,4], Martina Minnerop[2,6,7]

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1286 Patch flattening for high resolution topographical surveys of MRI & histology without surface meshes

Omer Faruk Gulban[1,2], Konrad Wagstyl[3], Rainer Goebel[4,2], Renzo Huber[4]

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1287 In vivo human MRI at 0.35 mm reveals up to 15 ms T2* changes within gray matter across depths at 7T

Omer Faruk Gulban[1,2], Saskia Bollmann[3], Renzo Huber[1], Kendrick Kay[4], Benedikt Poser[1], Federico De Martino[1], Rainer Goebel[1,2], Dimo Ivanov[1]

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1288 Cortical Projection Topography across Thalamus Reflects Large-scale Brain Organization

Amber Howell[1], Shaun Warrington[2], Lisa Jie Ji[1], Maxwell Shinn[1], Brendan Adkinson[1], Clara Fonteneau[1], Stamatios Sotiropoulos[2], John Murray[1], Alan Anticevic[1]

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1289 Association of R2 Relaxation Rate with LATE-NC: An Ex-vivo MRI and Pathology Study

Mahir Tazwar[1], Arnold Evia[2], Ashish Tamhane[2], David Bennett[2], Julie Schneider[2], Konstantinos Arfanakis[1,2]

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1290 Hippocampal volume varies with environmental toxin exposure

Kristen Buford[1], Juliann Purcell[1], Carly Snidow[1], Tasha Curiel[1], Heather Dark[1], Sylvie Mrug[1], David Knight[1]

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1291 Language network hyperconnectivity in MEG: marker of resiliency in extremely preterm children?

Maria Barnes-Davis[1], Hisako Fujiwara[1], Stephanie Merhar[1], Nehal Parikh[1], Darren Kadis[2]

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1292 Improving EEG coordinate space transformation: A novel midpoint-plane transformation technique

Simon Bar-on[1], Elizabeth Mills[2], Joel Diaz[2], Holly Truong[2], Agatha Lenartowicz[2]

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1294 The effect of sleep and bully on the superior frontal gyrus

Anna Klets[1], Hideo Suzuki[2]

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1295 The effect of body posture on resting-state functional connectivity

Barbara Avelar-Pereira[1], Grace Tam[1], S. M. Hadi Hosseini[1]

[1]Stanford University, Stanford, CA

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1296 Exercise-related consolidation of cerebral blood flow covariance in youth with bipolar disorder

Nicholas Luciw[1,2], Anahit Grigorian[3], Benjamin Goldstein[3,4], Bradley MacIntosh[1,2]

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1297 Analytic Bias in Neuroimaging

Kendra Oudyk[1], Jérôme Dockès[1], Lukas Shannon[1], Kate Kim[1], Jean-Baptiste Poline[1]

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1298 Functional connectivity of the hippocampal subfields in an aging population

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1299 Accelerated brain volume decline in normal aging overlaps with Alzheimer's disease pathology

Barbara Avelar-Pereira[1], Curran Phillips[1], S. M. Hadi Hosseini[1]

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1300 Mental health is associated with abnormal time-varying functional connectivity for cognitive ability

Wei Zhang[1], Diego Vidaurre2[2], Janine Bijsterbosch[1]
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1304 Superficial white matter microstructural alteration in cerebral Small Vessel Disease

Mingxian Zhang[1], Nan Yang[2], Sina Chen[2], Mingtai Li[1], Zhixian Hu[1], Ruiwang Huang[1]
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1306 Association of glycolysis with the structural connectome reveals a benefit–risk balancing mechanism

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1307 Structural and functional brain changes associated with post-stroke depression

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1308 Left Rostral Prefrontal Connectivity Links Thalamic Stimulation to Changes in Relational Reasoning

Joey Hsu[1], Dengyu Wang[2,3], Wolf-Julian Neumann[4], R. Mark Richardson[5,6], Luke Henry[2]
[1]*University of Pittsburgh School of Medicine, Pittsburgh, PA,* [2]*Department of Neurological Surgery, University of Pittsburgh School of Medicine, Pittsburgh, PA,* [3]*School of Medicine, Tsinghua University, Beijing, China,* [4]*Charité-University Medicine Berlin, Berlin, Germany,* [5]*Department of Neurosurgery, Massachusetts General Hospital, Boston, MA,* [6]*Harvard Medical School, Boston, MA*

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1311 Uncovering the heterogeneity of Alzheimer's diseases with subtypes

Pindong Chen[1,2], Hongxiang Yao[3], Pan Wang[4], Bing Liu[1,2,5], Dawei Wang[6], Chengyuan Song[7], Hongwei Yang[8], Zengqiang Zhang[9], Yida Qu[1,2], Xiaopeng Kang[1,2], Kai Du[1,2], Bo Zhou[10], Tong Han[11], Jie Lu[8], Chunshui Yu[12], Xi Zhang[10], Tianzi Jiang[1,2,5], Yuying Zhou[4], Ying Han[13,14,15,16], Yong Liu[1,2,5]
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1312 Identifying Therapeutic Targets for Neuropathic Pain Based on the Network Effects of Brain Lesions

Na Young Kim[1], Joseph Taylor[2], Yong Wook Kim[3], David Borsook[4], Mike Fox[5]
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1313 CNN visualization methods reveal diagnostically relevant brain regions to detect Alzheimer's disease

Martin Dyrba[1], Moritz Hanzig[2], Katharina Buerger[3], Daniel Cantré[4], Emrah Düzel[5], Michael Heneka[6], Christoph Laske[7], Robert Perneczky[8], Oliver Peters[9], Josef Priller[9], Anja Schneider[6], Annika Spottke[10], Michael Wagner[6], Marc-André Weber[4], Jens Wiltfang[11], Frank Jessen[12], Stefan Teipel[13]

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1314 Warped Bayesian Linear Regression for Normative Modelling of Big Data

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1315 Effect of ICA Denoising Strategy on Surface-based Task fMRI

Qunjun Liang[1], Senning Zheng[1], Jinhui Li[1], Jiajun Liao[1], Chuchu Jia[1], Ruiwang Huang[2]

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1318 MELD Project: Predictors of lesion location and postsurgical seizure freedom in FCD

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1319 MELD Project: Quantitative analysis of associations between MRI features and FCD histopathologies

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1320 Neural connectome encodes the risk of post-traumatic stress disorder (PTSD) in the COVID-19 pandemic

Zhiyi Chen[1], Pan Feng[1], Benjamin Becker[2], Matt Nassar[3], Sirois Fuschia[4], Bernhard Hommel[5], Tingyong Feng[1]

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1321 Do personality traits explain differences in resting state functional connectivity in older adults?

Lisa Haddad[1], Johanna Stumme[1,2], Svenja Caspers[1,2,3], Christiane Jockwitz[1,2]

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1322 Clustering fMRI Dynamic Functional Connectivity Time Series with Deep Autoencoders

Arthur Spencer[1], Marc Goodfellow[2]

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1325 Spectral Features of Human Brain Activity Are Related to Sensory-Associative Cortical Gradient

Michał Komorowski[1], Joanna Dreszer[2], Katarzyna Jurewicz[3], Jakub Wojciechowski[4], Tomasz Piotrowski[1], Włodzisław Duch[1]

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1328 Asymmetries of Large-Scale Cortical Organization: Heritable and Phylogenetic Profiles

Bin Wan[1,2,3,4], Şeyma Bayrak[1,3,4], Ting Xu[5], H. Lina Schaare[1,4], Boris Bernhardt[6], Sofie Valk[1,4,7]

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1329 Attention modulates Functional Connectivity in Prospective Memory: Insights from a MEG study

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1330 Efficient mapping of cortical finger representations in the human brain with TMS

Ole Numssen[1], Anna Leah Zier[1], Axel Thielscher[2,3], Gesa Hartwigsen[1], Thomas Knösche[1,4], Konstantin Weise[1,4]

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1331 Characteristics of language localization in the frontal language area based on awake brain mapping

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1332 Studying the effect of scanner change on measures of gray matter for Alzheimer's disease studies

Agnès Pérez-Millan[1], José Contador[1], Adrià Tort[1], Sergi Borrego-Écija[1], Beatriz Bosch[1], Mircea Balasa[1], Bàrbara Segura[2], Gemma Monté-Rubio[2], Núria Bargalló[1], Albert Lladó[1], Raquel Sanchez-Valle[1], Roser Sala-Llonch[2]

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1334 The association between graph measures of resting-state fMRI and psychological traits and sex

Qian Ran[1,2], Dongtao Wei[3,4], Lukas Van Oudenhove[5], Wenjing Yang[3,4], Qunlin Chen[3,4], Jie Meng[3,4], Rik Vandenberghe[1,6,7], Jiang Qiu[3,4], Patrick Dupont[1,6]

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1335 Dynamics of task-related electrophysiological networks: a benchmarking study

Judie Tabbal[1,2], Aya Kabbara[1], Mohamad Khalil[2,3], Pascal Benquet[1], Mahmoud Hassan[4]

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1338 Heritability of MEG phenotypes among patients with genetic generalized epilepsy and their siblings

Christina Stier[1,2], Adham Elshahabi[2,3], Yiwen Li Hegner[2], Raviteja Kotikalapudi[1,2,4], Justus Marquetand[2], Christoph Braun[5,6], Holger Lerche[2], Niels Focke[1,2]

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1339 Validation and Reproducibility of Group Cohesive Parcellation on rsfMRI at 3T

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1341 A Bayesian Lesion Regression Model with a Structured Spike-and-Slab Prior

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1342 Combining task connectomes can emphasize or deemphasize group differences in predictive modeling

Javid Dadashkarimi[1], Link Tejavibulya[1], Siyuan Gao[2], Abigail Greene[1], Stephanie Noble[1], Todd Constable[1], Dustin Scheinost[1]

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1343 Automated Olfactory Bulb Segmentation on High-Resolution T2 MRI using Convolutional Neural Networks

Santiago Estrada[1], Ran Lu[1], Kersten Diers[1], Weiyi Zeng[1], Tony Stöcker[1,2], Monique Breteler[1,3], Martin Reuter[1,4]

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1344 Fornix Integrity and Its Association With Cognition: A Pilot DWI Study in Thai Older Adults

Patcharaporn Srisaikaew[1,2], Nahathai Wongpakaran[3], Nicole Anderson[1,4], Jean Chen[1,5], Suchart Kothan[6], Pairada Varnado[3], Kittisak Unsrisong[7], Pasuk Mahakkanukrauh[2,8]

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1347 Predicting Brain Amyloid using Multivariate Morphometry, Sparse Coding and Correntropy

Jianfeng Wu[1], Qunxi Dong[1], Jie Gui[2], Jie Zhang[1], Yi Su[3], Kewei Chen[3], Paul Thompson[4], Richard Caselli[5], Eric Reiman[3], Jieping Ye[2], Yalin Wang[1]
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1349 A preprocessed open diffusion derivatives dataset from the Healthy Brain Network

Adam Richie-Halford[1], Matthew Cieslak[2], Alexandre Franco[3], Valerie Sydnor[2], Jason Yeatman[4], Lei Ai[3], Michael Milham[3], Theodore Satterthwaite[2], Ariel Rokem[1]
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1351 Reaction time modeling in fMRI: Between-subject RT differences persist with between-trial adjustment

Jeanette Mumford[1], Patrick Bissett[1], Henry Jones[1], Russell Poldrack[1]
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1355 Longitudinal Stability of Quantitative MRI Measurements

Masaya Misaki[1], Aki Tsuchiyagaito[1], Rayus Kuplicki[1], Naoyuki Takei[2], Martin Paulus[1], Jerzy Bodurka[1,3]
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1356 An fMRI Study of Semantic, Episodic and Creative Contributions to Word-Pair Link Formation

Katya Krieger-Redwood[1], Zhiyao Gao[1], Xiuyi Wang[1], Jonathan Smallwood[2], Elizabeth Jefferies[1]
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1357 DDisability Classification Using Empirical vs Predicted Structural and Functional Connectivity in MS

Ceren Tozlu[1], Keith Jamison[1], Zijin Gu[2], Susan Gauthier[1], Amy Kuceyeski[1]
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1358 Amyloid beta deposition and cognitive decline in Parkinson's disease: a study of the PPMI cohort

Alexander Mihaescu[1], Mikaeel Valli[1], Carme Uribe[1], Jinhee Kim[1], Antonio Strafella[1]
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1359 Individual Differences of Neural Mechanisms in Language Comprehension

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1360 Gamma band artifact removal in EEG-fMRI simultaneous recordings

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1361 The Effects of Focal and Diffuse Damage on Functional Networks: A comparison of Stroke and PPA

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1362 Dynamic functional connectivity patterns caused by acute stress

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1364 NeuroDISK - Continuous integration of neuroimaging data for dynamic statistical inferences

Qifan Yang[1], Daniel Garijo[2], Haripriya Dharmala[2], Hernán Vargas[2], Joshua Boyd[1], Wesley Surento[1], Kevin Low[1], David Kennedy[3], Yolanda Gil[2], Neda Jahanshad[1]
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1367 Characterization of Fiber Tract Integrity in Patients with Traumatic Brain Injury

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1369 Cognitive implications of changes across DMN structural connectivity related to cannabis use and HIV

Patricio Miguel Perez[1], Jessica Flannery[1], Raul Gonzalez[1], Angela Laird[1], Matthew Sutherland[1]
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1370 Tract-based spatial statistics analysis on white matter in patients with disorder of consciousness

Mingtai Li[1], Mingxian Zhang[1], Guo Yu[1], Yichen Zhang[1], Yaoke Deng[1], Zhixian Hu[1], Qiuyou Xie[2], Ronghao Yu[3], Ruiwang Huang[1]
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1371 Functional Connectivity Individualization in Early Childhood

Kirk Graff[1], Ryann Tansey[1], Amanda Ip[1], Christiane Rohr[1], Dennis Dimond[1], Deborah Dewey[1], Signe Bray[1]
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1372 Whit matter MTR change across lifespan supports the myelodegeneration hypothesis

Ting-En Chang[1], Chang-Le Chen[1], Pin-Yu Chen[1], Yung-Chin Hsu[2], Wen-Yih Isaac Tseng[1,2,3,4]

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1374 Convergent cortical neuroimaging signatures and molecular of Alzheimer's Disease

Xiaopeng Kang[1,2], DaWei Wang[3], Hongxiang Yao[4], Bing Liu[1,2,5], jiaji lin[6], Chengyuan Song[7], Pingdong Chen[1,2], Yida Qu[1,2], Hongwei Yang[8], Zengqiang Zhang[9], Bo Zhou[10], Tong Han[11], Ying Han[12,13,14], Jie Lu[8], Chunshui Yu[15], Pan Wang[16], Xinqing Zhang[12], Xi Zhang[17], Tianzi Jiang[1,2,5], Yuying Zhou[16], Yong Liu[1,2,5,18]

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1375 Resting-state brain dynamic modes predict behavioral traits

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1376 Aging-related changes in intrinsic alignment of functional signals with anatomical networks

Wan Lin Yue[1,2], Xing Qian[2], Kwun Kei Ng[2], Ruth LF Leong[2], Michael WL Chee[2,3], Danielle Bassett[4,5], Juan Helen Zhou[1,2,3,6]

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1377 Real-time fMRI Neurofeedback Training of the Supplementary Motor Area in Patients with Tic Disorders

Linda Orth[1], Halim Baqapuri[1], Camellia Ibrahim[1], Arnim Gaebler[1], Mikhail Zvyagintsev[1], Klaus Mathiak[1], Pegah Sarkheil[1], Irene Neuner[1,2]

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1378 Effects of hormone therapy on neurotransmitter levels in gender dysphoria

Benjamin Spurny[1], Georg Kranz[2], Marie Spies[1], Ulrike Kaufmann[1], Rene Seiger[3], Manfred Klöbl[1], Patricia Handschuh[1], Melisande Konadu[1], Murray Reed[1], Vera Ritter[1], Pia Baldinger-Melich[1], Wolfgang Bogner[1], Rupert Lanzenberger[1]

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1379 Gender difference in behavioral response delay under stress, the role of dACC-DMN connectivity

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1380 Using fMRI and rTMS to Explore the Role of the Inferior Parietal Lobe in Pain-Related Empathy

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1381 DTI longitudinal data processing method using subject specific template in neuroplasticity project

Nikodem Hryniewicz[1], Natalia Kowalczyk-Grębska[2], Bartosz Kossowski[3], Ewa Piątkowska-Janko[1], Aneta Brzezicka[2]

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1383 Finding the optimal spatiotemporal scale of functional network activity

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1384 Two latent dimensions linking multi-featured brain structure to behaviour in healthy adults

Eliana Nicolaisen[1], Shahrzad Kharabian Masouleh[1,2], Agoston Mihalik[3,4], Fabio Ferreira[3,4], Somayeh Maleki Balajoo[1,2], Simon Eickhoff[1,2], B.T. Thomas Yeo[5,6], Janaina Mourao-Miranda[3,4], Sarah Genon[1,2]

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1385 Does fMRI heat the Brain? - Magnetic Resonance Spectroscopy Thermometry study at 3 Tesla

Marcin Sińczuk[1], Nikodem Hryniewicz[1], Ewa Piątkowska-Janko[1,2], Piotr Bogorodzki[1,2]

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1386 Functional connectivity alterations between the DMN and occipital cortex in patients with OCD

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1387 Cerebellum correlates best with resting tremor in Parkinson patients in a multimodal analysis

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1388 Functional Mechanisms of Aging in S1 using Bayesian Population Receptive Field Mapping at 7T-MRI

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1389 Layer-specific myeloarchitecture of human S1 hand area in younger and older adults at 7T-MRI

Juliane Doehler[1], Alicia Northall[2], Alessio Fracasso[3], Gabriele Lohmann[4], Pierre-Louis Bazin[5], Daniel Haenelt[6], Thomas Wolbers[7], Esther Kuehn[8,9,10]

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1390 Aging Myeloarchitecture of Large-Scale Body-Part Representations in M1 at 7T-MRI

Alicia Northall[1], Juliane Doehler[1], Igor Tellez[1], Miriam Weber[2], Stefanie Schreiber[2], Esther Kuehn[1,3,4]

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1391 Gray and White Matter Brain Age has Distinct Associations with Lifestyle and Fluid Intelligence

Hui-Ming Tseng[1], Chang-Le Chen[1], Pin-Yu Chen[1], Yung-Chin Hsu[2], Wen-Yih Isaac Tseng[1,3]

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1392 Generalization failure of RSFC-based behavioral prediction in non-European pediatric population

Jingwei Li[1,2,3], Danilo Bzdok[4,5], Jianzhong Chen[3], Angela Tam[3], Leon Qi Rong Ooi[3], Avram Holmes[6,7], Tian Ge[8,7,9], Kaustubh Patil[1,2], Simon Eickhoff[1,2], B.T. Thomas Yeo[3,10], Sarah Genon[1,2]

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1393 Global and regional thickness associations with general and specific cognition in early psychosis

Katie Lavigne[1,2], Delphine Raucher-Chéné[1], Mallar Chakravarty[1], Alan Evans[2], Martin Lepage[1]

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1395 Paired Associative Stimulation and Modulation of Sensorimotor Oscillations after Spinal Cord Injury

Jukka Vanhanen[1,2], Lauri Parkkonen[3], Jyrki Mäkelä[1], Alexandra Tolmacheva[1], Anastasia Shulga[1,4], Andrey Rodionov[1], Erika Kirveskari[1,2]

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1396 Associations between MRI- and PET-based measures of brain connectivity

Aldana Lizarraga[1], Isabelle Ripp[1], Igor Yakushev[2]

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1398 Cortical and subcortical micro-structure is associated with polygenic risk for schizophrenia

Eva - Maria Stauffer[1], Richard Bethlehem[2], Varun Warrier[2], Graham Murray[3,4,5], Rafael Romero-Garcia[1], Jakob Seidlitz[6,7], Edward T. Bullmore[1]

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1399 (Un)common space in infant neuroimaging studies: a systematic review of infant templates

C. Alice Hahn[1], Silvia Gini[2], Alexis Alfano[3], Hannah Peterson[1], Saloni Mehta[1], Alexander Dufford[1], Dustin Scheinost[1]

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1400 Silent multi-echo fMRI at sub-second resolution using Extreme Coherence-Resolved Looping Star

Nikou Damestani[1], Andrew Leynes[2], Ana Beatriz Solana[3], David Lythgoe[1], Brice Fernandez[4], Brian Burns[5], Peder Larson[2], Steven Williams[1], Fernando Zelaya[1], Florian Wiesinger[3]

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1404 Propofol modulates functional connectivity signatures of attention: A preregistered replication

Taylor Chamberlain[1], Monica Rosenberg[1]

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1406 A Jugular Vein Compression Collar Reduces DTI and NODDI Changes in White Matter after Blast Exposure

Weihong Yuan[1,2], Jonathan Dudley[1], Alexis Slutsky-Ganesh[3], James Leach[1,2], Pete Scheifele[4,2], Mekibib Altaye[1,2], Kim Barber Foss[1], Jed Diekfuss[1], Christopher Rhea[3], Greg Myer[1,2]

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1407 Spatiotemporal Trajectories in Resting-state FMRI Revealed by Convolutional Variational Autoencoder

Xiaodi Zhang[1], Eric Maltbie[1], Shella Keilholz[1]

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1408 An interpretable and efficient statistical model to estimate dynamic functional connectivity

Katherine Tsai[1], Mladen Kolar[2], Oluwasanmi Koyejo[3]
[1]*University of Illinois at Urbana-Champaign, Urbana, United States,* [2]*University of Chicago Booth School of Business, Chicago, IL,* [3]*Beckman Institute for Advanced Science and Technology, Urbana, IL*

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1409 Recent Advances in Scattered Light Imaging Enable New Insights into Brain's Nerve Fiber Architecture

Miriam Menzel[1], Marouan Ritzkowski[1], David Gräßel[1], Philipp Schlömer[1], Katrin Amunts[1,2], Markus Axer[1]
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1410 Human Brain Surface-Volume Atlases of Newborns to Centenarians

Sahar Ahmad[1], Ye Wu[1], Zhengwang Wu[1], Weili Lin[1], Li Wang[1], Gang Li[1], Pew-Thian Yap[1]
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1411 MVPA classification of natural sounds in early visual cortex

Giusi Pollicina[1], Petra Vetter[2]
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1412 Motor sequence learning and prefrontal stimulation modulate hippocampo-frontal multivoxel patterns

Mareike Gann[1], Bradley King[2,1], Nina Dolfen[1], Menno Veldman[1], Marco Davare[3], Dante Mantini[1,4], Stephan Swinnen[1], Edwin Robertson[5], Genevieve Albouy[1,2]
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1415 Validation and comparison of three methods for extracting white matter hyperintensities

Isabel Hotz[1], Pascal Deschwanden[1], Franz Liem[2], Susan Mérillat[2], Spyros Kollias[3], Lutz Jäncke[2]
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1416 Human Thalamic Activity During Intra-Dimensional and Extra-Dimensional Set Shifting

Juniper Hollis[1], Dillan Cellier[1], Marco Pipoly[1], Kai Hwang[1]
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1417 Modulation of Peak Alpha Frequency during Working Memory is greater in Females than Males

Tara Ghazi[1], Kara Blacker[2], Thomas Hinault[3], Susan Courtney[1,4]
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1418 Effects of bariatric surgery and weight loss on resting-state functional connectivity

Hannah Sophie Heinrichs[1], Frauke Beyer[1,2], Kristin Prehn[3,4], Evelyn Medawar[1,5], Jürgen Ordemann[6,7], Flöel Agnes[8,4,9,10], A.Veronica Witte[1,2,11]
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1419 Recurrent neural networks trained on N-back task reveal functional activity of visual working memory

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1420 Focal lesions induce large-scale percolation of sleep-like intracerebral activity in awake humans

Simone Russo[1], Andrea Pigorini[1], Ezequiel Mikulan[1], Simone Sarasso[1], Annalisa Rubino[2], Flavia Zauli[1], Sara Parmigiani[3], Pergiorgio d'Orio[2], Anna Cattani[1], Laura Tassi[2], Giorgio Lo Russo[2], Lino Nobili[4], Ivana Sartori[2], Marcello Massimini[1]
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1421 Tedana: Multi-echo fMRI tools and resources

Daniel Handwerker[1], Zaki Ahmed[2], Peter Bandettini[1], Katherine Bottenhorn[3], César Caballero-Gaudes[4], Logan Dowdle[5], Elizabeth DuPre[6], Javier Gonzalez-Castillo[1], Angela Laird[3], Ross Markello[6], Stefano Moia[4], Taylor Salo[3], Joshua Teves[1], Eneko Uruñuela[4], Maryam Vaziri-Pashkam[1], Kirstie Whitaker[7]

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1422 Ballistocardiogram artefact corrections in EEG-fMRI using beamforming spatial filtering techniques

Makoto Uji[1], Nathan Cross[2,3], florence pomares[4,5], Aurore Perrault[1,5], Aude Jegou[1,6], Alex Nguyen[1,5], Umit Aydin[1,7], Jean-Marc Lina[8,9], Thien Thanh Dang-Vu[1,5], Christophe Grova[1,10]

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1423 Robustness of task activation is key? An investigation on the test-retest reliability of task fMRI

Matthias Zerban[1], Maximilian Lueckel[2], Anita Schick[3], Miriam Kampa[4], Alexandra Sebastian[5], Oliver Tuescher[6], Michèle Wessa[7], Raffael Kalisch[2], Kenneth Yuen[8]

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1425 Effects of pregnancy, menopause and lifestyle risk factors on cortical thickness in healthy ageing

Manuela Costantino[1,2], Grace Pigeau[1,3], Aurelie Bussy[1,4], Nadia Blostein[1,4], Gabriel Devenyi[1,5], Ross Markello[6,4], Raihaan Patel[1,3], Nicole Gervais[7,8], Mallar Chakravarty[9,3,5]

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1427 A resting-state fMRI study among Normal, High Risk, and and Cognitively Impaired Older Individuals

Neda Rashidi-Ranjbar[1,2], Tarek Rajji[3,2], Sanjeev Kumar[3,2], Nathan Herrmann[3,4], Linda Mah[3,5], Corinne Fischer[6], Alastair Flint[3,7], Meryl Butters[8], Bruce Pollock[3,2], Erin Dickie[3,2], Colin Hawco[3,2], Benoit Mulsant[3,2], Aristotle Voineskos[3,2]

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1429 Association of Latent Trauma with Distinctive Patterns of Cortical Thickness in Children

Hee Jung Jeong[1], E. Leighton Durham[1], Tyler Moore[2], Randolph Dupont[1], Carlos Cardenas-Iniguez[3], Emily Micciche[1], Marc Berman[3], Benjamin Lahey[3], Antonia Kaczkurkin[1]

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1430 Trail Making Test Performance using a Tablet: Behavioural Kinematics and Electroencephalography

Zhongmin Lin[1], Fred Tam[2], Nathan Churchill[3], Fa-Hsuan Lin[1,2], Bradley MacIntosh[1,2], Tom Schweizer[3,4], Simon Graham[1,2]

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1431 Column-Scale Encoding of Personal Space using high resolution 7T fMRI

Zahra Nasiriavanaki[1], Roger Tootell[2], Baktash Babadi[3], Shahin Nasr[2], Douglas Greve[2], Jonathan Polimeni[2], Daphne Holt[3]

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1432 Hemispheric Differences in the Principal Gradient and Their Contribution to Cognition

Tirso Gonzalez Alam[1], Bronte Mckeown[1], Boris Bernhardt[2], Reinder Vos de Wael[3], Daniel Margulies[4], Jonathan Smallwood[5], Elizabeth Jefferies[1]

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1433 Human thalamic activity and thalamocortical functional connectivity during the N-back task

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1434 Transcriptomic Underpinnings of Individual Variation in Brain Co-activity

Nhung Hoang[1], Mary Lauren Benton[2], John Capra[3], Mikail Rubinov[1]
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1435 The Functional Connectome in Posttraumatic Stress Disorder

Isabella Breukelaar[1], Richard Bryant[1], Mayuresh Korgaonkar[2]
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1437 3D Brain MRI Super-Resolution with Image Gradient Tensor Feature Clustering

Seongsu Park[1], Jin Kyu Gahm[1]
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1438 Exploring Shared Genetic Effects of Emotion and Subcortical Volumes

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1439 Functional Connectivity Profiles Predict Trial-by-Trial Success in a Navigation Task

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1440 A Region-Specific Accelerated Brain Aging Pattern in Parkinson's Disease

Chen-Yuan Kuo[1], Wei-Che Lin[2], Pei-Lin Lee[3], Liang-Kung Chen[4], Kun-Hsien Chou[5], Ching-Po Lin[3]
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1442 Problem complexity modulates brain responses of mental arithmetic in female but not in male

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1443 Behavioral and neuro-cognitive bases for formation of a shared reality through social interaction

Yukiko Ogura[1], Kiri Kuroda[1], Akitoshi Ogawa[2], Tomoya Tamei[3], Kazushi Ikeda[4], Tatsuya Kameda[1]
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1444 The dlPFC Presents Structural Variations Associated with Empathic Capacity in Psychotherapists

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1445 Dynamic functional connectivity changes associated with small vessel disease

Zhixian Hu[1], Nan Yang[2], Sina Chen[2], Yu Guo[1], Mingxian Zhang[1], Yaoke Deng[1], Kemeng Chen[1], Ruiwang Huang[1]
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1447 GABA levels predict the familiarity of recognition memory in human dlPFC

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1449 Structure-Function Dissociations of Hippocampal Subfield Viscoelasticity and Memory Performance

Peyton Delgorio[1], Lucy Hiscox[1], Ana Daugherty[2], Faria Sanjana[1], Matthew McGarry[3], Christopher Martens[1], Hillary Schwarb[4], Curtis Johnson[1]
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1450 Examination of hippocampal and amygdalar volumes in major depressed patients after ketamine

Jen Evans[1], Carlos Zarate[2]
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1451 Effects of age-related neuropathologies on the shape of subcortical structures

Nazanin Makkinejad[1], Ashish Tamhane[2], David Bennett[2], Julie Schneider[2], Boris Gutman[1], Konstantinos Arfanakis[1]
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1452 Dynamic functional connectivity in world class gymnasts

Yaoke Deng[1], Xiaolin Yang[1], Huiyuan Huang[2], Xiaoying Zhang[1], Kemeng Chen[1], Jiajun Liao[1], Chuchu Jia[1], Ruiwang Huang[1]
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1453 NeuroDesk - A cross-platform desktop environment for reproducible and scalable neuroscience

Steffen Bollmann[1], Oren Civier[2,3], Aswin Narayanan[3,1], Markus Barth[1,3], Tom Johnstone[2,3]

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1454 High Associations Between Brain and Distractor Suppression Ability Across High-WMC Individuals

Ke Xie[1,2,3], Zhenlan Jin[1,2,3], Dong-Gang Jin[1,2,3], Junjun Zhang[1,2,3], Ling Li[1,2,3]

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1456 Structural covariance and heritability of the optic tract and primary visual cortex in living human

Toshikazu Miyata[1,2], Noah Benson[3], Jonathan Winawer[4], Hiromasa Takemura[2,1]

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1457 Reproducible surface-based stability of dynamic functional architecture during rumination

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1459 Individual differences in antisaccade cost are related to precentral gyrus

Donggang Jin[1,2,3], Zhenlan Jin[1,2,3], Aolin Ding[1,2,3], LING LI[1,2,3]

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1460 Development of functional brain networks underlying sustained attention over childhood & adolescence

Phoebe Thomson[1,2], Charles Malpas[1], Nandita Vijayakumar[3], Katherine Johnson[1], Vicki Anderson[2,4,1], Daryl Efron[2,1,4], Philip Hazell[5], Emma Sciberras[3,2,1], Timothy Silk[3,2,1]

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1461 Chronic stroke sensorimotor impairment correlates with spared hippocampal volume: An ENIGMA Analysis

Artemis Zavaliangos-Petropulu[1], Nerisa Banaj[2], Giuseppe Barisano[1], Michael Borich[3], Amy Brodtmann[4], Cathrin Buetefisch[5], Charalambos Charalambous[6], Valentina Ciullo[7], Adriana Conforto[8], Steven Cramer[9], Rosalia Dacosta-Aguayo[10], Wayne Feng[11], Kathryn Hayward[12], Brenton Hordacre[13], Steven Kautz[14], Mohamed Salah Khlif[15], Hosung Kim[1], Amy Kuceyeski[16], David Lin[17], Bethany Lo[18], Keith Lohse[19], Martin Lotze[20], Maria Mataro[21], Feroze Mohamed[22], Ander Ramos-Murguialday[23], Andrew Robertson[24], Nicolas Schweighofer[25], Na Jin Seo[26], Mark Shiroishi[27], Gregory Thielman[28], Nick Ward[29], Carolee Winstein[30], Steven Wolf[31], Kristin Wong[32], Neda Jahanshad[1], Paul Thompson[1], Sook-Lei Liew[1], ENIGMA Stroke Recovery Working Group[33]

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1463 Neuroanatomical pattern classification of Multi-protocol MRI data across psychotic diseases

Yinghan Zhu[1], Hironori Nakatani[2], Naohiro Okada[3], Shinsuke Koike[3]

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1464 MRI texture analysis for the prediction of survival in amyotrophic lateral sclerosis

Daniel Ta[1], Abdullah Ishaque[1], Adam Elamy[1], Dean Eurich[1], Collin Luk[1], Sanjay Kalra[1]

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1465 Spatiotemporal Specificity of TMS-evoked Potentials versus Sensory Evoked Potentials

Matteo Fecchio[1], Simone Russo[2], Sara Parmigiani[2], Alice Mazza[3], Alessandro Viganò[3], Adenauer Casali[4], Renzo Comolatti[2], Ezequiel Mikulan[2], Michele Colombo[2], Sasha D'Ambrosio[2], Silvia Casarotto[2], Simone Sarasso[2], Marcello Massimini[2], Mario Rosanova[2]

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1466 Gender difference in brain activation during social navigation

Kemeng Chen[1], Qiu Yidan[2], Jiajun Liao[3], Jinhui Li[3], Xiaoying Zhang[4], Yuling Guan[5], Ruiwang Huang[6]

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1467 Heterogeneity of amyloid accumulation is associated with cognitive decline

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1468 Fronto-parietal network involvement in inhibitory control across the life span

Jixin Long[1], Xiaoqi Song[1], Chanyu Wang[1], Haifeng Yan[1], Chichen Zhang[2], Ruibin Zhang[1,3]

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1469 Higher socioeconomic status enhances confidence facing COVID-19 for males: role of parahippocampus

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1471 Functional Connectivity of the Medial Prefrontal Cortex Related to Mindreading Abilities

Marine Le Petit[1], Francis Eustache[1], Joy Perrier[1], Vincent de La Sayette[1], Béatrice Desgranges[1], Mickaël Laisney[1]

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1472 Hemifield Auditory Stimulation and the Right Hemisphere Dominance of Stimulus-Preceding Negativity

Yasunori Kotani[1], Yoshimi Ohgami[1], Nobukiyo Yoshida[2], Akira Kunimatsu[2], Shigeru Kiryu[3], Yusuke Inoue[4]

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1473 Virtual histology of sex differences in brain structural variance

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1474 Mapping neuroanatomical heterogeneity of multi-site Alzheimer's Disease data using normative models

Serena Verdi[1,2], Seyed Kia[3,4], Andre Marquand[3,4], Jonathan Schott[2], James Cole[1,2], for the Alzheimer's Disease Neuroimaging Initiative[5]

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1475 BIDS-prov : a provenance framework for BIDS

Rémi Adon[1], Stefan Appelhoff[2], Tibor Auer[3], Laurent Guillo[4], Yaroslav Halchenko[5], David Keator[6], Christopher Markiewicz[7], Thomas Nichols[8], Jean-Baptiste Poline[9], Satrajit Ghosh[10], Camille Maumet[11]

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1476 Linking early imaging of stroke and gradual cognitive decline – a DTI and tractography study

Barbora Buckova[1,2], David Kala[3], Veronika Matuskova[4], Vojtech Kumpost[3], Lenka Svobodova[1], Jakub Otahal[3], Antonin Skoch[5], Vlastimil Sulc[4], Anna Olserova[4], Petr Jansky[4], Ales Tomek[4], Petr Marusic[4], Premysl Jiruska[3], Jaroslav Hlinka[2]

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1478 Genetic Association of Blood Pressure With Cortical Microstructure and Functional Connectivity

H. Lina Schaare[1,2], Şeyma Bayrak[1,2], Bo-yong Park[3], Boris Bernhardt[3], Sofie Valk[1,2]

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1479 Robustness of individualized inferences from longitudinal resting state EEG dynamics

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1481 Learning to predict Cutting Angles from Histological Human Brain Sections

Christian Schiffer[1,2], Luisa Schuhmacher[3], Katrin Amunts[1,4], Timo Dickscheid[1,2]

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1482 Association between rumination and inhibitory control: neural evidence based on meta-analyses

Xiaoqi Song[1], Jixin Long[1], Chaogan Yan[2], Chanyu Wang[1], Haifeng Yan[1], Chichen Zhang[3], Ruibin Zhang[1,4]

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1483 The Two-component Structure of Cortical Slow Waves in Anticipation of Auditory Stimuli

Yoshimi Ohgami[1], Yasunori Kotani[1], Nobukiyo Yoshida[2], Akira Kunimatsu[2], Shigeru Kiryu[3], Yusuke Inoue[4]

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1484 TRAMPOLINO: the Swiss Army Knife for exploratory tractography and reproducible workflows

Matteo Mancini[1,2,3], Bastian David[4], Tommy Boshkovski[3], Elizabeth DuPre[5], Jean-Baptiste Poline[5], Jennifer Campbell[6], Mara Cercignani[1], Nikola Stikov[3]

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1485 Resting State Fast Brain Dynamics Reflect Motor Performance but Not Learning-Related Plasticity

Liliia Roshchupkina[1], Vincent Wens[1], Nicolas Coquelet[1], Xavier de Tiege[1], Philippe Peigneux[1]

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1486 The Influence of Spatial Normalization on Functional Activation Analyses

Peter Stöhrmann[1], Lucas Rischka[1], Gregor Gryglewski[1], Thomas Vanicek[1], Manfred Klöbl[1], Marcus Hacker[2], Rupert Lanzenberger[1], Andreas Hahn[1]

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1487 A comparison of individualized behaviour prediction across modalities in MRI

Leon Qi Rong Ooi[1], Jianzhong Chen[2], Ruby Kong[1], Angela Tam[2], Jingwei Li[3], Juan Helen Zhou[1], B.T. Thomas Yeo[2]

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1488 An executive-functions based training engages the somatomotor and auditory networks in dyslexia

Tzipi Horowitz-Kraus[1], Ally Dworetsky[2], Rola Farah[3], Bradley Schlaggar[4], Steven Petersen[2]

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1489 Exploring quantitative MRI contrast in posterior cortical atrophy using ex vivo imaging

Luke Edwards[1], Carsten Jäger[1], Evgeniya Kirilina[1,2], Karl-Heinz Herrmann[3], Kerrin Pine[1], Patrick Scheibe[1], Jürgen Reichenbach[3], Nikolaus Weiskopf[1,4]

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1490 Spontaneous brain activity, graph metrics and head motion predict PTSD psychotherapy response

Remko van Lutterveld[1], Tim Varkevisser[1], Karlijn Kouwer[1], Sanne van Rooij[2], Mitzy Kennis[3], Martine Hueting[1], Simone van Montfort[4], Edwin van Dellen[5], Elbert Geuze[1]

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1491 Distinct Intrinsic Functional Connectomes of Distractor Suppression in High- and Low-WMC Individuals

Ke Xie[1,2,3], Zhenlan Jin[1,2,3], Junjun Zhang[1,2,3], Ling Li[1,2,3]

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1492 Voluntary Control Over Attention Using Real-Time fMRI Neurofeedback (rtfMRI-nf) _EEG results

Reza Mazloum[1], Jeanette Popovova[2], Gianluca Macauda[3], Philipp Stämpfli[4], Sascha Frühholz[2], Patrik Vuilleumier[5], Frank Scharnowski[6], Vinod Menon[7], Roger Gassert[2], Lars Michels[3]

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1493 A trans-species neuroanatomical model for the triple-network organization

Roël Vrooman[1], Francesca Mandino[2], Heidi Foo[2], Ling Yun Yeow[2], Thomas Bolton[3], Piergiorgio Salvan[4], Chai Lean Teoh[2], Chun Yao Lee[2], Antoine Beauchamp[5], Sarah Luo[2], Renzhe Bi[2], Jiayi Zhang[2], Guan Hui Tricia Lim[2], Nathaniel Low[2], Jerome Sallet[4], John Gigg[6], Jason Lerch[4], Rogier Mars[1], Malini Olivo[2], Yu Fu[2], Joanes Grandjean[1]

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1495 Comparing approaches for estimating regional hemodynamic timing differences in BOLD-fMRI data

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1497 Inter-session reliability of automatic segmented MRI-derived measurements by FreeSurfer

Yuling Guan[1], Lunxiong Li[2], Fengguang Xia[2], Xiaolin Yang[1], Haishan Yuan[1], Lixin Qiu[1], Mingtai Li[1], Qinda Huang[1], Ruiwang Huang[1,3]

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1498 Parcellation-induced Variation of Empirical and Simulated Functional Brain Connectivity

Justin Domhof[1,2], Kyesam Jung[1,2], Simon Eickhoff[1,2], Oleksandr Popovych[1,2]

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1499 Hair Glucocorticoid Associations with Brain Structure in Major Depressive Disorder

Claire Green[1], Aleks Stolicyn[1], Mathew Harris[1], Liana Romaniuk[1], Miruna Barbu[1], Xueyi Shen[1], Emma Hawkins[1], Mark Adams[1], Stephen Lawrie[1], Rebecca Reynolds[1], Jonathan Cavanagh[2], Andrew McIntosh[1], Heather Whalley[1]

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1500 Replicating extensive brain structural heterogeneity in individuals with a mental disorder

Thomas Wolfers[1], Jaroslav Rokicki[2], Dag Alnæs[2], Pierre Berthet[2], Seyed Mostafa Kia[3], Mariam Zabihi[3], Christian Beckmann[4], Ole Andreassen[2], Andre Marquand[5], Lars Westlye[2]

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1501 Auditory enhancement of illusory contour perception: a 7T fMRI study

Anna Gaglianese[1], Ruxandra Tivadar[2], David Tovar[3,4], Carlein Roelofzen[5], Wietske Van Der Zwaag[5], Alessio Fracasso[6], Serge Dumoulin[5], Micah Murray[1,7,8]

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1503 Exploring large-scale cortical organization in chimpanzees: probing myeloarchitecture with qMRI

Ilona Lipp[1], Evgeniya Kirilina[1], Carsten Jäger[1], Markus Morawski[2], Anna Jauch[1], Sofie Valk[1], Kerrin Pine[1], Luke Edwards[1], Cornelius Eichner[1], Tobias Gräßle[3], Alfred Anwander[1], Angela Friederici[1], Roman Wittig[4], Catherine Crockford[4], Nikolaus Weiskopf[1]

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1504 Mining brain-wide gene expression data to identify imaging genomic modules via biclustering

Jingxuan Bao[1], Mansu Kim[1], Xiaohui Yao[1], Trang Le[1], Patryk Orzechowski[1], Jingwen Yan[2], Andrew Saykin[3], Jason Moore[1], Li Shen[1]

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1505 Social brain dynamics: Co-activation and interaction of networks enabling empathy and Theory of Mind

Lara Maliske[1], Matthias Schurz[2], Philipp Kanske[1]

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1506 Parametric empirical Bayes modeling in the presence of incomplete data

Manfred Klöbl[1], Rene Seiger[1], Thomas Vanicek[1], Patricia Handschuh[1], Murray Reed[1], Benjamin Spurny[1], Vera Ritter[1], Godber Godbersen[1], Gregor Gryglewski[1], Christoph Kraus[1], Andreas Hahn[1], Rupert Lanzenberger[1]

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1509 The time course of semantic task processing

Kirsten Duflou[1], Vincent Wens[2], Martin Sjøgård[2], Alvince Pongos[3], Serge Goldman[2], Xavier de Tiege[2], Rose Bruffaerts[1]

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1510 Age-associated Sex and Asymmetry Differentiation in Regional Cortical Complexity across Adulthood

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1512 Data-driven approach to dynamic resting state functional connectivity: an ENIGMA-PGC PTSD study

Carissa Weis[1], Courtney Haswell[2], Emily Clarke-Rubright[2], Neda Jahanshad[3], Evan Gordon[4], Lea Waller[5], Marc Buettner[5], Elena Pozzi[6], Yara Toenders[6], Christine Larson[7], Lianne Schmaal[6], Ilya Veer[5], Paul Thompson[8], Rajendra Morey[2]

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1513 Vulnerability of inter-hemispheric functional connectivity in the aging sensorimotor network

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1514 Gender Dysphoria and Autistic Traits: associations with cortical thickness

Jamie Feusner[1], Behzad Sorouri Khorashad[2], Ivanka Savic[3]

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1515 When intraclass correlation is not suited for measuring test-retest reliability

Gang Chen[1], Daniel Pine[1], Melissa Brotman[1], Ashley Smith[1], Robert Cox[1], Simone Haller[1]

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1516 Correlation Between Common Clinical Clinical Scales and MTR in Cervical Myelopathy

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1517 Variability of simple motor skills in healthy older people

Sophia Rickert[1], Christiane Jockwitz[1,2], Alfons Schnitzler[3,4], Svenja Caspers[1,2,5]

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1518 ICA fails in network reconstruction when sources are not independent: A methodological evaluation

Teague Henry[1], Siva Venkadesh[1], Heman Shakeri[1], Zachary Jacokes[1], John Van Horn[1]

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1519 Cognition and its Relationship to Patterns of Intermodal Structural Covariance in Schizophrenia

Dawn Jensen[1], Elaheh Zendehrouh[1], Vince Calhoun[2], Jessica A. Turner[3]

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1520 Neural mechanisms of emotion regulation obesity: A study with fMRI and dynamic causal modeling

Pablo Maturana[1,2], Trevor Steward[3], Ignacio Martínez-Zalacaín[4,2], Fernando Fernandez-Aranda[5,6], Carles Soriano-Mas[5,7,8]

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1521 Resting-state functional MRI signal fluctuations are correlated with brain amyloid-β deposition

Norman Scheel[1], Takashi Tarumi[2,3], Tsubasa Tomoto[3,4], C. Munro Cullum[4], Rong Zhang[3,4], David Zhu[1]

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1522 Topological Features of Task Connectivity Brain Networks Predict Age and Performance

Dekang Yuan[1], Anthony Juliano[2], Sage Hahn[1], Max Owens[1], Hugh Garavan[3], Nicholas Allgaier[1]

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1523 Organisational and neuromodulatory underpinnings of structure-function decoupling in Parkinson's

Angeliki Zarkali[1], Peter McColgan[2], Louise Leyland[2], Andrew Lees[2], Geraint Rees[2], Rimona Weil[2]

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1524 Comparison of transcript levels and neurotransmitter receptor densities in human hippocampal regions

Thomas Mühleisen[1,2], Ling Zhao[1], Dominique Hilger[1], Bettina Burger[3], Andreas Forstner[1,4], Stefan Herms[3,4], Per Hoffmann[4,3], Karl Zilles[1], Katrin Amunts[1,2], Sven Cichon[1,3,5], Nicola Palomero-Gallagher[1,2,6]

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1525 Granger Causality for intracranial EEG: hypothesis testing during visual discrimination task

Anna Pidnebesna[1], Kamil Vlcek[2], Pavel Sanda[1], Jiri Hammer[3], Petr Marusic[3], Jaroslav Hlinka[1]

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1526 Resting State Frontal Theta Rhythms are Altered After Working Memory Task

Tharunika Venkatesan[1], Tyler Hammond[1], Banafsheh Aghayeeabianeh[1], Hena Kachroo[1], Xiaopeng Zhao[2], Gregory Jicha[1], Yang Jiang[1]

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1527 Modeling progressive neurodegeneration with deep convolutional neural networks

Anup Tuladhar[1], Jasmine Moore[1], Nils Forkert[1]

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1529 Auditory verbal hallucinations relate to language but not hearing according to fMRI responses

Paola Fuentes-Claramonte[1], Joan Soler-Vidal[2], Pilar Salgado-Pineda[1], Maria Angeles García-León[1], Nuria Ramiro[3], Aniol Santo-Anglès[1], Maria Llanos Torres[4], Josep Tristany[5], Amalia Sanchez-Guerrero[6], Josep Munuera[7], Salvador Sarró[1], Raymond Salvador[1], Wolfram Hinzen[8], Peter McKenna[1], Edith Pomarol-Clotet[1]

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1530 Looking Across Multimodal MRI QC Measures in NKI-Rockland Pediatric Longitudinal Sample

Ryan Lim[1], Russell Tobe[1], Anna MacKay-Brandt[1], Melissa Kramer[1], Melissa Breland[1], Kristin Trautman[1], Caixia Hu[1], Raj Sangoi[1], Lucia Tu[1], Lindsay Alexander[2], Vilma Gabbay[3], Francisco Castellanos[1], Bennett Leventhal[4], Richard Craddock[5], Stanley Colcombe[1], Michael Milham[2], Alexandre Franco[1]

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1532 Curation of BIDS (CuBIDS): a sanity-preserving workflow for large BIDS datasets

Matthew Cieslak[1], Sydney Covitz[1], Tinashe Tapera[1], Azeez Adebimpe[1], Lei Ai[2], Maxwell Bertolero[1], Basma Jaber[1], Kristin Murtha[1], Anders Perrone[3], Jenna Schabdach[4], Jacob Vogel[1], Russell Shinohara[1], Aaron Alexander-Bloch[1], Damien Fair[5], Michael Milham[2], Theodore Satterthwaite[1]

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1533 Design Issues and Solutions for Stopping Data from the Adolescent Brain Cognitive Development Study

Patrick Bissett[1], McKenzie Hagen[1], Henry Jones[1], Russell Poldrack[1]

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1535 An Open Longitudinal Resource for Psychiatric, Cognitive, and Neuroanatomic Pediatric Development

Russell Tobe[1,2,3], Anna MacKay-Brandt[1,3], Ryan Lim[1], Melissa Kramer[1], Melissa Breland[1], Kristin Trautman[1], Caixia Hu[1], Raj Sangoi[1], Lucia Tu[1], Lindsay Alexander[2], Vilma Gabbay[1,4], Francisco Castellanos[1,5], Bennett Leventhal[6], Richard Craddock[7], Stanley Colcombe[1,8], Alexandre Franco[1,2,8], Michael Milham[1,2]

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1536 Load-Dependent Differences in Phase Locking during the Working Memory Delay Period

Chelsea Reichert Plaska[1,2], Jefferson Ortega[2], Bernard Gomes[3], Timothy Ellmore[2,1]

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1537 Creating Layered Surfaces to Visualize with AFNI + SUMA, with applications to laminar fMRI

Salvatore Torrisi[1], Peter Lauren[2], Paul Taylor[2], Suhyung Park[3], David Feinberg[1], Daniel Glen[4]

[1]UC Berkeley, Berkeley, CA, [2]National Institute of Mental Health, Bethesda, MD, [3]Chonnam National University, Gwangju, N/A, [4]NIMH, Bethesda, MD

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1540 Denoising physiological data collected during multi-band, multi-echo EPI sequences

Katherine Bottenhorn[1], Taylor Salo[1], Michael Riedel[1], Erica Musser[1], Jennifer Robinson[2], Matthew Sutherland[1], Angela Laird[1]

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1542 Network controllability in transmodal cortex predicts positive psychosis spectrum symptoms

Linden Parkes[1], Tyler Moore[1], Monica Calkins[1], Matthew Cieslak[1], David Roalf[1], Daniel Wolf[1], Ruben Gur[1], Raquel Gur[1], Theodore Satterthwaite[1], Danielle Bassett[1]

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1543 Trade-offs between classification performance and interpretability in deep learning for EEG signals

Florence Aellen[1], Athina Tzovara[1]

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1544 Edge community structure of functional MRI and meta-analytic activation

Joshua Faskowitz[1], Thomas Varley[1], Richard Betzel[1], Olaf Sporns[1]

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1545 Foundations for affect-based mental health neuroimaging studies in the UK Biobank

Rosie Dutt[1], Ty Easley[1], Kayla Hannon[1], Wei Zhang[1], Joseph Griffiss[1], Janine Bijsterbosch[1]

[1]Washington University in St. Louis, Saint Louis, MO, USA

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1546 The impact of acute and severe hypoxia observed by pCASL MR brain imaging on Compact 3T MRI scanner

Daehun Kang[1], Koji Uchida[1], Clifton Haider[1], Erin Gray[1], MyungHo In[1], Joshua Trzasko[1], Norbert Campeau[1], Kirk Welker[1], Jeffrey Gunter[1], Yunhong Shu[1], Matt Bernstein[1], Max Trenerry[1], David Holmes III[1], Michael Joyner[1], Timothy Curry[1], John Huston III[1]

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1547 A Synergistic Core for Human Brain Evolution and Cognition

Andrea Luppi[1], Pedro Mediano[1], Fernando Rosas[2], Negin Holland[1], Tim Fryer[1], John O'Brien[1], James Rowe[1], David Menon[1], Daniel Bor[1], Emmanuel Stamatakis[1]

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1548 Three cortical networks for perceptual, semantic, and social processing of faces

Asa Borzabadi Farahani[1], Elahe' Yargholi[2], Gholam-Ali Hossein-Zadeh[1], Reza Rajimehr[3]

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1549 Frequency-specific alterations in resting brain activity and connectivity in temporal lobe epilepsy

Lucas Sainburg[1], Baxter Rogers[1,2], Catie Chang[1,2,3], Dario Englot[1,2,4], Victoria Morgan[1,2,4]

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1552 Corticospinal excitability and conductivity are related to the anatomy of the corticospinal tract

Sonia Betti[1], Marta Fedele[2], Umberto Castiello[1], Luisa Sartori[1], Sanja Budisavljević[3]

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1553 A reduction of the excitation:inhibition balance in association cortex during adolescence

Bart Larsen[1], Zaixu Cui[1], Azeez Adebimpe[2], Jakob Seidlitz[3], Adam Pines[1], Max Bertolero[2], Ruben Gur[2], Raquel Gur[2], Daniel Wolf[2], Theodore Satterthwaite[2]

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1554 Traumatic Brain Injury Accelerates Brain Aging: A Longitudinal DoD ADNI Study

Emily Dennis[1], James Cole[2], Jason Staph[3], Frank Hillary[3], David Tate[1], Elisabeth Wilde[1]

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1555 Spatial and temporal autocorrelation reproduce subject-level topology of the functional connectome

Maxwell Shinn[1], Amber Hu[1], Laurel Turner[1], Stephanie Noble[1], Dustin Scheinost[1], Todd Constable[1], Daeyeol Lee[2], Edward T. Bullmore[3], John Murray[1]

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1556 Prediction of adverse 2-year outcomes in neonatal HIE from brain MRI clinically read as 'normal'

Rutvi Vyas[1], Sarah Morton[2], Ya'nan Song[1], Rebecca Weiss[3], Sara Bates[4], Jessica Landers[1], Randy Gollub[4], Janet Soul[2], Ellen Grant[2], Yangming Ou[2]

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1557 Meta Regression for Coordinate Based Meta Analysis Data with a Spatial Model

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1558 Longitudinal changes in structural connectivity in young people at high risk of bipolar disorder

Alistair Perry[1], Gloria Roberts[2], Kate Ridgway[2], Vivian Leung[2], Megan Campbell[3], Rhosel Lenroot[4], Philip Mitchell[2], Michael Breakspear[3]

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1559 Probing the Hemispheric Asymmetry of Representations in Bilateral "Inferior Temporal Numeral Areas"

Darren Yeo[1,2], Courtney Pollack[1,3], Benjamin Conrad[1], Gavin Price[1]

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1560 Effect of repeated blocks of transcranial magnetic stimulation (TMS) on fronto-striatal connectivity

Usman Jawed Shaikh[1], Antonello Pellicano[1], Andre Schüppen[1], Oliver Winz[2], Alexander Heinzel[2], Felix Mottaghy[2], Ferdinand Binkofski[1]

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1561 The Emergence of Head Direction Signals in a Complex Environment

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1562 Perturbation of Functional Connectivity Allows Prediction of rTMS Therapeutic Effect in TRD

Ruiyang Ge[1], Elizabeth Gregory[1], Afifa Humaira[1], Rebecca Todd[1], Sean Nestor[2], Sophia Frangou[1,3], Fidel Vila-Rodriguez[1]

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1565 Aberrant Functional Connectivity Underlying Semantic Cognition and Episodic Memory in Parkinson's

Qian Shen[1,2], Vida Sadeghi[2], Xiangyu Wei[1,2], Deborah L. Harrington[1,2]

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1566 Effect of Normobaric Hypoxia on Spontaneous EEG Power Spectra

Evan Hutcheon[1], Adonay Nunes[2], Vasily Vakorin[1], Urs Ribary[1], Sherri Ferguson[1], Victoria Claydon[1], Sam Doesburg[1]

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1567 Cerebral hierarchical functional structure in elders and its association with vascular oxygenation

Hechun Li[1], Jian Hu[1], Hui He[1], Dezhong Yao[1], Cheng Luo[1]

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1568 Ascending arousal system shapes low-d network dynamics mediating conscious awareness

Brandon Munn[1], Eli Müller[1], Gabriel Wainstein[1], Russell Poldrack[2], James Shine[1]

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1569 Accommodating site variation in neuroimaging data using hierarchical and Bayesian models

Johanna Bayer[1,2], Richard Dinga[3], Seyed Mostafa Kia[4], Akhil Kottaram[2], Thomas Wolfers[5], Jinglei Lv[6], Andrew Zalesky[7], Lianne Schmaal[2], Andre Marquand[3]

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1571 Mapping Language & Theory of Mind in the White Matter Association Tracts of 809 Brains

Leo Zekelman[1,2], Fan Zhang[3], Nikos Makris[3,4], Jianzhong He[3], Daniela Liera[5], Yogesh Rathi[3], Alexandra Golby[2,3], Lauren O'Donnell[3]

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1572 Hierarchical Bayesian modelling for the inference of group-level brain states using functional MRI

Lingbin Bian[1], Jonathan Keith[1], Adeel Razi[1]

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1573 Precise patterns of reliability in functional brain networks

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1574 Characterizing Macrovascular Contributions to Resting-state fMRI

Xiaole Zhong[1], Jean Chen[2]

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1575 Connectome-based Predictive Modeling with Missing Connectivity Data Using Robust Matrix Completion

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1576 Bipolar disorder patients showed altered effective connectivity – a triple-network based study

Zhifang Zhang[1], Qijing Bo[1], Feng Li[1], Lei Zhao[1], Yun Wang[1], Rui Liu[1], Xiongying Chen[1], Chuanyue Wang[1], Yuan Zhou[2]

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1577 A Deep Learning Based Comparison of Response to TMS Treatment for Sex Differences in MDD Subjects

Caglar Uyulan[1], Turker Erguzel[2], Srija Seenivasan[3], Elvan Çiftçi[2], Sermin Kesebir[2], Maheen Adamson[4], Nevzat Tarhan[2]

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1578 Delay discounting associations with valuation and control system connectivity in healthy adults

Kavinash Loganathan[1], Jinglei Lv[2], Vanessa Cropley[3], Eric Ho[1], Andrew Zalesky[3]

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1579 Stroop interference as a function of task, design and cognitive demand: a neuroimaging meta-analysis

Veronika Müller[1,2], Edna Cieslik[1,2], Linda Ficco[3], Chunliang Feng[4], Simon Eickhoff[1,2], Robert Langner[1,2]

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1582 Multimodal fusion based parcellation of the human thalamus

Gang Li[1,2], Luqi Cheng[1,3], Yuheng Lu[1,2], Kaixin Li[1,4], Weiyang Shi[1,2], Tianzi Jiang[1,2,5], Lingzhong Fan[1,2,5]

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1585 Regional differences in cerebral BOLD signal response induced by severe transient hypoxia

Daehun Kang[1], Koji Uchida[1], Clifton Haider[1], Erin Gray[1], MyungHo In[1], Joshua Trzasko[1], Norbert Campeau[1], Kirk Welker[1], Jeffrey Gunter[1], Yunhong Shu[1], Matt Bernstein[1], Max Trenerry[1], David Holmes III[1], Michael Joyner[1], Timothy Curry[1], John Huston III[1]

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1587 Reduced Functional Connectivity after Non-invasive Vagus Nerve Stimulation in Chronic Pancreatitis

Tine Hansen[1,2], Janusiya Muthulingam[1,2], Søren Olesen[3,2], Asbjørn Drewes[4,2], Jens Frøkjær[1,2]

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1588 ENIGMA HALFpipe: Fast, interactive, and reproducible analysis for functional MRI data

Lea Waller[1], Susanne Erk[1], Elena Pozzi[2,3], Courtney Haswell[4], Yara Toenders[3,2], Marc Büttner[1], Lianne Schmaal[3,2], Rajendra Morey[4], Henrik Walter[1], Ilya Veer[1]

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1589 High-order and domain-specific pathways for dynamic visual stimulus processing in working memory

Hui Zhou[1], Conghui Su[1], Liangyu Gong[1], Binyu Teng[1], Wan Xi[1], Tengfei Wang[1], Zaifeng Gao[1], Yuzheng Hu[1]

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1591 Brain network similarity: Methods and applications

Ahmad Mheich[1], Mahmoud Hassan[2], Fabrice Wendling[3]

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1592 Diurnal Variations in Vascular Regulation of Healthy Adult Brain Based on Time-shifted Rs-fMRI

Chunxiang Jiang[1,2], Siqi Cai[1,2], Shihui Zhou[1,2], Lijuan Zhang*[1]

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1593 What is the best data augmentation for 3D brain tumor segmentation?

Marco Domenico Cirillo[1,2], David Abramian[1,2], Anders Eklund[1,3,2]

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1594 Thalamocortical excitability modulation guides human perception under uncertainty

Julian Kosciessa[1,2,3], Ulman Lindenberger[1,2], Douglas Garrett[1,2]

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1595 Development of selective stopping in middle childhood: qualitative and quantitative changes

Irene Rincón-Pérez[1], Susana Arroyo-Lozano[2], Alberto J. Sánchez-Carmona[2], José A. Hinojosa[1], Alberto Fernández-Jaén[3], Sara López-Martín[4], Jacobo Albert[5]

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1596 Chenonceau: an entire ex vivo human brain 11.7T anatomical and diffusion MRI dataset

Alexandros Popov[1], Raïssa Yebga Hot[1], Justine Beaujoin[1], Ivy Uszynski[1], Fawzi Boumezbeur[1], Fabrice Poupon[1], Christophe Destrieux[2], Cyril Poupon[1]

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1598 Decoding means and outcome during action observation: a multivariate fMRI study

Settimio Ziccarelli[1], Antonino Errante[1], Gloria Mingolla[1], Leonardo Fogassi[1]

[1]University of Parma, Parma, IT

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1599 Affective Processing Effects on Whole-Brain Functional Speech Networks Change with Age

Jana Schill[1], Peter Soros[1], Kristina Simonyan[2], Christiane Thiel[1], Karsten Witt[1]

[1]University of Oldenburg, Oldenburg, Niedersachsen, [2]Harvard Medical School, Boston, MA

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1600 A virtual histology and genetics approach investigating excitatory/inhibitory imbalance in autism

Viola Hollestein[1], Jan Buitelaar[1], Christine Ecker[2], Thomas Bourgeron[3], Geert Poelmans[1], Jill Naaijen[1]

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1601 Prediction of the performance on decision-making behavior using VBM and dynamic regression model

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1602 A new superficial white matter connectivity atlas of the chimpanzee brain

Maëlig Chauvel[1], Ivy Uszynski[1], William Hopkins[2], Jean-François Mangin[1], Cyril Poupon[1]

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1603 Inhibitory synaptic loss and network dysfunction in MS: an ex-vivo to in-silico translational study

Marijn Huiskamp[1], Prejaas Tewarie[1], Svenja Kiljan[1], Shanna Kulik[1], Laura Jonkman[1], John Bol[1], Geert Schenk[1], Hanneke Hulst[1], Jeroen Geurts[1], Menno Schoonheim[1]

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1604 Adaptive working memory updating training does not promote brain grey matter changes

Katerina Pappa[1], Jonathan Evans[1], Satu Baylan[1], Kristin Flegal[1]

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1605 Establishing a Role of the Semantic Control Network in Social Cognition: a Meta-analysis

Veronica Diveica[1], Kami Koldewyn[1], Richard Binney[1]

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1606 Deep Learning-Based Substantia Nigra Neuromelanin MRI Biomarker for Parkinson's Disease Patients

RAHUL GAURAV[1,2,3], Romain Valabregue[1,2], Nadya Pyatigorskaya[1,2,3,4], Lydia Yahia-Cherif[1,2], Emma Biondetti[1,2,3], Graziella Mangone[2,5], R. Matthew, Hutchison[6], Jean-Christophe Corvol[2,5,7], Marie Vidailhet[2,3,7], Stéphane Lehéricy[1,2,3,4]

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1607 Anterior-posterior shift of hippocampus structural covariance across development:a multicohort study

Anna Plachti[1], Robert Latzman[2], Somayeh Maleki Balajoo[3], Felix Hoffstaedter[4], Kathrine Skak Madsen[1,5], William Frans Christiaan Baaré[1,5], Hartwig Siebner[1,6], Simon Eickhoff[7,8], Sarah Genon[9,10]

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1608 Beyond broadband: towards a spectral decomposition of EEG microstates

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1610 Atlas of functional connectivity relationships across genetic variants and psychiatric conditions

Clara Moreau[1], Annabelle Harvey[2], Sebastian Urchs[3], Guillaume Huguet[4], Kuldeep Kumar[5], Elise Douard[6], Hanad Sharmarke[7], Pierre Orban[8], Charles-Olivier Martin[4], Nadine Younis[9], Petra Tamer[9], Jean-Louis Martineau[9], Ana Dos Santos Silva[10], Jeremy Hall[11], Marianne van den Bree[12], Michael Owen[12], David Linden[13], Sarah Lippé[14], Laura Schultz[15], Laura Almasy[15], Carrie Bearden[16], David Glahn[17], Thomas Bourgeron[1], Paul Thompson[18], Pierre Bellec[19], Sebastien Jacquemont[9]

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1611 Neural basis of learning-related metacognition: Task-induced changes in resting state networks

Valentine Chirokoff[1], Sylvie Berthoz[2], Bixente Dilharreguy[3], Georges Di Scala[3], Joel Swendsen[1], Sandra Chanraud[1]

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1612 Effective tuning of inter-regional connectivity through changes in local oscillatory dynamics

Sophie Benitez Stulz[1], Gregory Dumont[2], Boris Gutkin[2], Demian Battaglia[1]

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1613 Ventral Striatum and Orbitofrontal Cortex Mediate Emotion-cognition Integration during Inhibition

Zhuang Qian[1], Xu Lei[2], Zhou Feng[2], Yao Shuxia[2], Zheng Xiaoxiao[2], Zhou Xinqi[2], Li Jialin[2], Xu Xiaolei[2], Fu Meina[2], Li Keshuang[2], Deniz Vatansever[3], Keith Kendrick[2], Benjamin Becker[2]

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1614 Mapping primate brains across species via common sulci: A sulcal-based surface mapping approach

Kep Kee Loh[1,2], Guillaume Auzias[1,2], Jeanne Abitbol[1], Robert Dahnke[3], William Hopkins[4], Michael Petrides[5], Jerome Sallet[6], Celine Amiez[7], Olivier Coulon[1,2]

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1615 Nigrosome 1 in the substantia nigra: toward unifying its definition in histology and MRI

Malte Brammerloh[1], Evgeniya Kirilina[1], Markus Morawski[2], Charlotte Lange[1], Carsten Jäger[1], Anna Jauch[1], Anneke Alkemade[3], Rawien Balesar[3], Kerrin Pine[1], Nikolaus Weiskopf[1]

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1616 Brain Network Reconfiguration as Marker of General Intelligence?

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1617 From brain activation to semantic representations: a cumulative approach

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1619 Regional brain iron and gene expression shed light on neurodegeneration in Parkinson's disease

George Thomas[1], Angeliki Zarkali[1], Mina Ryten[2], Karin Shmueli[3], Ana Luisa Gil Martinez[2], Louise Leyland[1], Peter McColgan[4], Julio Acosta-Cabronero[5], Andrew Lees[6], Rimona Weil[1]

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1620 Investigating the long-lasting impact of motherhood on white matter in the human brain

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1621 Machine Learning Reveals Multimodal MRI Signatures Associated with Handedness

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1622 Using qMRI to characterize lesioned tissues in MS patients: a longitudinal study

Nora Vandeleene[1], Christophe Phillips[1], Emilie Lommers[2], Pierre Maquet[2], Evelyne Balteau[2]

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1623 Simultaneous blind estimation of global fluctuations and neuronal-related activity from fMRI data

Eneko Uruñuela[1], Stefano Moia[1], César Caballero-Gaudes[1]

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1624 Depressive symptoms and white matter structure in older adults with and without diabetes mellitus

Ruth Kerkhoff[1], Christiane Jockwitz[1,2], Jan Schreiber[2], Andrea Icks[3,4,5], Svenja Caspers[1,2,6]

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1625 Individualized alpha frequency rTMS to the inferior frontal junction enhances visual search

Bruce Luber[1], Lysianne Beynel[1], Lawrence Appelbaum[2], Zhi-De Deng[1], Tristan Jones[2], Austin Harrison[2], Eric Lo[2], Andy McKinley[3], Sarah Lisanby[1]

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1626 Classification and prediction of cognitive performance differences in older age

Camilla Krämer[1,2], Christiane Jockwitz[1,2], Johanna Stumme[1,2], Lucas Campos[1], Christian Rubbert[3], Julian Caspers[3], Svenja Caspers[1,2,4]

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1627 Altered default mode network in type 1 diabetes with diabetic peripheral neuropathy

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1631 Fingerprinting and Behavioral Prediction Rest on Distinct Functional Systems of the Human Connectome

Martin Gell[1,2,3], Maron Mantwill[4,3], Stephan Krohn[4,3], Carsten Finke[4,3]

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1632 Interleukin 8 and Default Mode Network Functional Connectivity in Aging and Alzheimer's Disease

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1633 Association between long-term air pollution, traffic noise and resting-state brain connectivity

Lina Glaubitz[1], Johanna Stumme[2], Sarah Lucht[1], Susanne Moebus[3], Sara Schramm[4], Christiane Jockwitz[5], Barbara Hoffmann[1], Svenja Caspers[5]

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1634 VASO reveals distinct layer-connectivity between digit-representations in BA3b

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1636 InLang: unraveling the functional attributes of the language connectome

Elise ROGER[1], Lilian Rodrigues de Almeida[1], Hélène Loevenbruck[1], Marcela Perrone-Bertolotti[1], Emilie Cousin[1], Jean-Luc Schwartz[1], Pascal Perrier[1], Marion Dohen[1], Pierre Baraduc[1], Cédric Pichat[1], Sophie Achard[1], Monica Baciu[1]

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1637 Quantification of T2 relaxation in vivo and post mortem at 7 Tesla using a dictionary approach

Jochen Schmidt[1,2], Dvir Radunsky[3], Patrick Scheibe[1], Evgeniya Kirilina[1], Ruth Stassart[4], Christian Eisenlöffel[4], Carsten Jäger[1,5], Markus Morawski[5,1], Noam Ben-Eliezer[3,6,7], Nikolaus Weiskopf[1,8], Robert Trampel[1]

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1638 Contextual conditioning in posttraumatic stress disorder: an fMRI study using virtual reality

Sebastian Siehl[1,2,3], Manon Wicking[2,4], Sebastian Pohlack[2], Tobias Winkelmann[2], Francesca Zidda[2], Frauke Steiger-White[2], Frauke Nees[1,2], Herta Flor[2]

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1640 Linking Individual Differences in Personalized Functional Topography to Psychopathology in Youth

ZAIXU Cui[1], Adam Pines[1], Hongming Li[1], Tyler Moore[1], Azeez Adebimpe[1], Jacob Vogel[1], Sheila Shanmugan[1], Bart Larsen[1], Max Bertolero[1], Cedric Xia[1], Raquel Gur[1], Ruben Gur[1], Desmond Oathes[1], Aaron Alexander-Bloch[1], Michael Milham[2], Giovanni Salum[3], Monica Calkins[1], David Roalf[1], Russell Shinohara[1], Daniel Wolf[1], Christos Davatzikos[1], Danielle Bassett[1], Damien Fair[4], Yong Fan[1], Theodore Satterthwaite[1]

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1641 Reduced Functional Alignment with Anatomy During Cognitive Switching in Systemic Lupus Erythematosus

Xing Qian[1], Danielle Bassett[2,3], Kwun Kei Ng[1], Beatrice RY Loo[1], Amelia J Koh[1], Roger Chun-man Ho[4], Anselm Mak[5,6], Juan Helen Zhou[1,7,8,9]

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1642 Mapping the Coupling of Cerebral Blood Flow-Amplitude of Low Frequency Oscillations in Youth

Erica Baller[1], Azeez Adebimpe[1], Alessandra Valcarcel[1], Aaron Alexander-Bloch[1], Zaixu Cui[1], John Detre[1], Ruben Gur[1], Raquel Gur[1], Bart Larsen[1], Kristin Linn[1], Carly O'Donnell[1], Adam Pines[1], Armin Raznahan[2], David Roalf[1], Tinashe Tapera[1], Simon Vandekar[3], Russell Shinohara[1], Theodore Satterthwaite[1]

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1643 Individual modeling of neurophysiological brain connectivity

Shanna Kulik[1], Linda Douw[1], Edwin van Dellen[2], Martijn Steenwijk[1], Jeroen Geurts[1], Cornelis Stam[1], Arjan Hillebrand[1], Menno Schoonheim[1], Prejaas Tewarie[3]

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1644 Multi-scale Structural Imaging of Alzheimer's Disease Neurodegeneration

Ikbeom Jang[1,2], Binyin Li[1,2,3], Joost Riphagen[1,2,4], Bradford Dickerson[1,2], David Salat[1,2,5]

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1645 Whole-brain Diffusion MRI Mega-Analysis in Idiopathic Generalized Epilepsy

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1646 Predicting phenotypes based on high-dimensional resting state networks in individuals from big data

Seyedeh-Rezvan Farahibozorg[1], Samuel Harrison[2,1,3], Janine Bijsterbosch[4], Fidel Alfaro-Almagro[1], Weikang Gong[1], Saad Jbabdi[1], Stephen Smith[1], Mark Woolrich[5,1]

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1647 The neural correlates of volatile prediction learning in autism: behavior, models, fMRI and MRS

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1648 Improvement of brain atrophy evaluation using optimized brain masking

Jessica Lebenberg[1,2], Antoine Guillonnet[3], Jean-Pierre Guichard[3], Abbas Taleb[3], Nathalie Dias-Gastellier[1,2,3], Hugues Chabriat[1,2,3], Eric Jouvent[1,2,3]
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1649 New Algorithmic Approaches and GPU Computing for Voxel-wise Heritability and Genome-Wide Association

Kathryn Hatch[1], Brian Donohue[1], Tianzhou Ma[2], Shuo Chen[1], Yizhou Ma[1], Si Gao[1], Elliot Hong[1], Neda Jahanshad[3], Paul Thompson[4], Peter Kochunov[1]
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1650 Functionnectome: a framework to analyse the contribution of brain circuits to fMRI

Victor Nozais[1], Stephanie Forkel[1], Chris Foulon[2], Laurent Petit[1], Michel Thiebaut de Schotten[3]
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1651 IDConn: A Python pipeline for investigating individual differences in functional brain connectivity

Katherine Bottenhorn[1], Taylor Salo[1], Jessica Bartley[1], Jessica Flannery[1], Matthew Sutherland[1], Angela Laird[1]
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1653 The Bermuda Triangle of d- and f-MRI sailors - software for susceptibility distortions (SDCFlows)

Oscar Esteban[1], Azeez Adebimpe[2], Christopher Markiewicz[3], Mathias Goncalves[4], Ross Blair[5], Matthew Cieslak[2], Mikaël Naveau[6], Kevin Sitek[7], Markus Sneve[8], Céline Provins[9], Eilidh MacNicol[10], Theodore Satterthwaite[2], Russell Poldrack[11]
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1654 Mean-field modeling of brain-scale dynamics for the evaluation of EEG source-space networks

Sahar Allouch[1,2], Maxime Yochum[2], Aya Kabbara[2], Joan Duprez[2], Mohamad Khalil[1], Fabrice Wendling[2], Mahmoud Hassan[3], Julien Modolo[2]
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1655 Genetic & phenotypic similarity to neuropsychiatric illness predicts life satisfaction in UKBioBank

Kathryn Hatch[1], Yizhou Ma[1], Si Gao[1], Chen Mo[2], Zhenyao Ye[3], Krystl Haerian[4], Paul Thompson[5], Neda Jahanshad[6], Elliot Hong[1], Peter Kochunov[1]
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1656 Brain volume from 3D ultrasound for fetal growth assessment using deep convolutional neural networks

Felipe Moser[1], Marianne van der Vaart[2], Aris Papageorghiou[3], Bartlomiej Papiez[4], Ana Namburete[1]
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1657 Consistent sex classification accuracies across independent datasets

Lisa Wiersch[1,2], Kaustubh Patil[1,2], Simon Eickhoff[1,2], Susanne Weis[1,2]
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1658 Perivascular spaces and tau pathophysiology in early Alzheimer's continuum

Natalia Vilor-Tejedor[1,2,3,4], Iacopo Ciampa[5], Grégory Operto[1,6,7], Carles Falcón[1,6,8], Marc Suárez-Calvet[1,6,7,9], Marta Crous-Bou[1,10,11], Mahnaz Shekari[1,4,6], Eider Arenaza-Urquijo[1,7,6], Marta Milà-Alomà[1,4,6,7], Oriol Rivera-Grau[1,6,7,9], Carolina Minguillón[1,6,7], Gwendlyn Kollmorgen[12], Ivonne Suridjan[13], Henrik Zetterberg[14,15,16,17], Kaj Blennow[14,18], Roderic Guigo[2,4], Jose Luis Molinuevo[1], Juan D. Gispert[1,4,6,19]

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1659 Stroke-related alterations in inter-areal communication revealed via Granger causality analysis

Allegra Michele[1], Chiara Favaretto[2], Maurzio Corbetta[2], Andrea Brovelli[3], Nicholas Metcalf[4]

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1660 Reduced Frontostriatal Functional Connectivity in 41- to 70-Year-Old Adults With HIV

Shiva Hassanzadeh-Behbahani[1], Fan Yang[1], Margarita Bronshteyn[1], Matthew Dawson[2], Princy Kumar[1], John VanMeter[1], David Moore[2], Ronald Ellis[2], Xiong Jiang[1]

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1661 The ventral intraparietal area (VIP): towards understanding macaque-human homology

Celia Foster[1], Wei-An Sheng[2], Suliann Ben Hamed[2], Tobias Heed[1]

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1662 Differential Recruitment of Hippocampal Subfields as a Function of Delay Period Duration

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1663 Distinct Phonemic vs Acoustic Representations of Dichotic Stimuli

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1665 A deep learning model for data-driven discovery of functional connectivity

Usman Mahmood[1], Zening Fu[1], Vince Calhoun[2], Sergey Plis[1]

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1666 Simultaneous optimisation of MP2RAGE UNI & FLAWS images at 7T with Extended Phase Graph Simulations

Ayse Sila Dokumaci[1], Fraser R. Aitken[1], Jan Sedlacik[1], Philippa Bridgen[1], Raphael Tomi-Tricot[1,2], Tom Wilkinson[1], Ronald Mooiweer[1], Sharon Giles[1], Joseph V. Hajnal[1], Shaihan Malik[1], Jonathan O'Muircheartaigh[1], David W. Carmichael[1]

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1667 Differential contributions of thalamostriatal connectivity to flexible, goal-directed behaviours

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1668 The effects of regular sports exercise on human brain structure

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1669 Brain Network Integrity and Emotional-Behavioral Symptoms in Youth with Perinatally-acquired HIV

Gabriella Caceres[1], Kathleen Malee[2], Renee Smith[3], Paige Williams[4], Lei Wang[1], Lisanne Jenkins[1]

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1670 White Matter Alterations in Noise-Induced Tinnitus: Insights from Deep and Manifold Learning

Chloe Jaroszynski[1], Arnaud Attyé[2], Chantal Delon-Martin[3], Agnès Job[4]

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1671 Effects of APOE genotype on subcortical volume: A study of 41,615 MRI scans from the UK Biobank

Alexandra Muir[1], Chris Ching[1], Vigneshwaran Santhalingam[1], Zvart Abaryan[2], Alyssa Zhu[1], Sophia Thomopoulos[1], Neda Jahanshad[1], Paul Thompson[1]

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1672 Schaefer-Yeo-AFNI-2021 Atlases: Improved ROIs with AFNI+SUMA Processing

Daniel Glen[1], Richard Reynolds[1], Paul Taylor[2], Xiaozhen You[3], Ruby Kong[4], Aihuiping Xue[4], Xiaoxuan Yan[4], B.T. Thomas Yeo[5]

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1673 Brain Network Decomposition for Naturalistic Stimulus Paradigm

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1674 Brainstem Dysfunction in Healthy Aging

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1675 Working memory is linked with default mode network deactivation and real-world money saving behavior

Ranjita Poudel[1], Michael Riedel[1], Taylor Salo[1], Jessica Flannery[1], Lauren Hill-Bowen[1], Angela Laird[1], Carlos Parra[1], Matthew Sutherland[1]

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1676 Cognitive Enrichment Prevents Age-related Axonal Dispersion and Mitigates Attention Deficits

Méadhbh Brosnan[1,2,3], Nir Shalev[1,2,3], Jivesh Ramduny[4], Stamatios Sotiropoulos[3,5,6], Magdalena Chechlacz[7,8]

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1677 A fiber clustering-based atlas of the chimpanzee deep brain structural connectivity using diffusion

Maëlig Chauvel[1], Ivy Uszynski[1], William Hopkins[2], Jean-François Mangin[1], Cyril Poupon[1]

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1678 COVID19 effects on brain tissue microstructure: Longitudinal study using diffusion MRI

J. Jean Chen[1], Jordan Chad[1], Xiang Ji[2], Bradley MacIntosh[3], Asaf Gilboa[1], Eugenie Roudaia[1], Allison Sekuler[1], Benjamin Lam[2], Chris Heyn[2], Sandra Black[2], Simon Graham[3]

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1679 Skilled but not simple motor practice leads to myelin plasticity in the human brain

Sarah Kraeutner[1], Cristina Rubino[1], brian greeley[2], Shie Rinat[1], Jennifer Ferris[3], Bimal Lakhani[1], Lara Boyd[1]

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1681 Asymmetric neural dynamics characterize loss and recovery of consciousness

Zirui Huang[1], Vijay Tarnal[1], Phillip Vlisides[1], Ellen Janke[1], Amy McKinney[1], Paul Picton[1], George Mashour[1], Anthony Hudetz[1]

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1682 Reduced Error-Related Default Mode Network Deactivations Linked with HIV and Medication Management

Jessica Flannery[1], Michael Riedel[1], Taylor Salo[1], Ranjita Poudel[1], Angela Laird[1], Raul Gonzalez[1], Matthew Sutherland[1]

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1683 Implications of Early Physical Activity on Functional Connectivity After a Pediatric Concussion

Katherine Healey[1,2], Zhuo Fang[3], Andra Smith[3], Roger Zemek[4], Andrée-Anne Ledoux[1,5,3,2]

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1685 Neural source modeling prevents removal of neural activity during confound regression with fMRI

Gabriel Desrosiers-Gregoire[1,2], Gabriel Devenyi[1,3], Joanes Grandjean[4], M. Mallar Chakravarty[1,3,5]

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1688 Cortical functional connectomics describe genetic-evolutionary features of the human brain

Elisenda Bueicheku[1], Jose Gonzalez-de-Echavarri[2,1], Laura Ortiz-Teran[3,1], Victor Montal[4,1,5], Federico d'Oleire uquillas[6,1], Lola De Marcos[7,1], William Orwig[8], Chan-Mi Kim[1,9], Elena Ortiz-Teran[10,1], Silvia Basaia[11,1], Ibai Diez[1,9], Jorge Sepulcre[1,9]

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1690 Large Lesion Brain Alignment with AFNI

Daniel Glen[1], Jacob Levenstein[1], Michael Granovetter[2], Ann Margaret Maallo[2], Marlene Behrmann[2]

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1691 Heritability of Hippocampal Structural and Functional Organization

Şeyma Bayrak[1,2,3], Reinder Vos de Wael[4], Neda Bernasconi[4], Andrea Bernasconi[4], Benoit Caldairou[4], H. Lina Schaare[1,2], Boris Bernhardt[4], Sofie Valk[1,2]

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1692 Mapping cortical-depth-dependent vascular responses in cerebral amyloid angiopathy with 7T fMRI

Jennifer Yeo[1], Nana Frimpong[2], Aina Frau-Pascual[2,3], Mitchell Horn[2], Isik Karahanoglu[2,3], Suk-Tak Chan[2,3], Andrew Warren[2], Susanne van Veluw[2,3], Edip Gurol[2,3], Jonathan Polimeni[2,3], Steven Greenberg[2,3], Jingyuan Chen[2,3]

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1693 Individualized prediction of future cognition using baseline developmental cortical changes

Budhachandra Khundrakpam[1], Linda Booij[2], Jussi Tohka[3], Alan Evans[1]

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1695 Mapping subcortical functional connectome of the default mode network for targeted neuromodulation

Jian Li[1,2,3], William Curley[3], Bastien Guerin[1,2], Darin Dougherty[4], Adrian Dalca[1,2,5], Brian Edlow[1,3]

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1697 Resilience of the Infant Brain

Maryam Ghanbari[1], Guoshi Li[1], Hoyt Patrick Taylor[1], Sahar Ahmad[1], Zhengwang Wu[1], Li Wang[1], Gang Li[1], Weili Lin[1], Pew-Thian Yap[1]

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1698 Melatonin Dose Correlates with More Lo Deep Sleep in a Military PTSD Population

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1699 White matter networks predict development of reading and math abilities

Ethan Roy[1], Adam Richie-Halford[2], Manjari Narayan[1], John Kruper[2], Ariel Rokem[2], Jason Yeatman[1]

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1700 Putamen connectivity in aging and Alzheimer's Disease

Maria Misiura[1], Amber Tannahill[2], J Howell[3], Whitney Wharton[2], Danielle Verble[3], Henrik Zetterberg[4], William Hu[5], Jessica A. Turner[6]

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1701 Evaluating the reliability of diffusion-MRI based tractometry

John Kruper[1], Jason Yeatman[2], Adam Richie-Halford[1], David Bloom[1], Mareike Grotheer[3], Sendy Caffarra[4], Gregory Kiar[5], Iliana Karipidis[2], Ethan Roy[2], Ariel Rokem[1]

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1702 Loss of differentiation and complexity in the sleeping human brain: a multi-scale analysis

Andrea Pigorini[1], Ezequiel Mikulan[1], Simone Russo[1], Anna Cattani[1], Sara Parmigiani[1], Matteo Fecchio[2], Annalisa Rubino[3], Flavia Zauli[1], Chiara Campana[3], Jacopo Favaro[4], Jacopo Lanzone[5], Federica Amico[3], Alessandro Viganò[6], Ivana Sartori[3], Simone Sarasso[1], Lino Nobili[7], Marcello Massimini[1]

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1703 GPU optimization of Empirical Kinship Algorithms for Big Data Imaging Genetic Analyses

Si Gao[1], Brian Donohue[1], Kathryn Hatch[1], Yizhou Ma[1], Elliot Hong[1], Shuo Chen[2], Tianzhou Ma[1], Peter Kochunov[1]

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1704 Altered network stability in progressive supranuclear palsy and frontotemporal dementia

David Whiteside[1], Simon Jones[1], Boyd Ghosh[2], Ian Coyle-Gilchrist[3], John van Swieten[4], Harro Seelaar[4], Lise Jiskoot[5], Barbara Borroni[6], Raquel Sanchez-Valle[7], Fermin Moreno[8], Robert Laforce[9], Caroline Graff[10], Matthis Synofzik[11], Daniela Galimberti[12], Mario Masellis[13], Maria Tartaglia[14], Elizabeth Finger[15], Rik Vandenberghe[16], Alexandre de Mendonça[17], Fabrizio Tagliavini[18], Chris Butler[19], Isabel Santana[20], Isabelle La Ber[21], Alexander Gerhard[22], Simon Ducharme[23], Johannes Levin[24], Adrian Danek[24], Markus Otto[25], Giovanni Frisoni[26], Roberta Ghidoni[27], Sandro Sorbi[28], Florence Pasquier[29], Michelle Hu[30], Johannes Klein[19], Nigel Leigh[31], Alastair Church[32], David Burn[33], Huw Morris[34], Jonathan Rohrer[35], James Rowe[1], Timothy Rittman[1]

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1705 Polyneuro Risk Scores of Executive Function Show Widely Distributed Effects Across the Whole Brain

Nora Byington[1], Gracie Grimsrud[2], Michael Mooney[3], Michaela Cordova[3], Olivia Doyle[3], Robert Hermosillo[1], Eric Earl[3], Anders Perrone[3], Lucille Moore[4], Alice Graham[4], Joel Nigg[3], Wesley Thompson[5], Eric Feczko[1], Oscar Miranda-Dominguez[1], Damien Fair[1]

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1706 Prior surgery decreases fMRI language dominance in patients with gliomas affecting Broca's area

Monika Polczynska[1], Bryan Ding[1], Bianca Dang[1], Lucia Cavanagh[1]

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1707 Resting State Global Functional Connectivity as a Predictor of Outcome in Resective Epilepsy Surgery

Mark Lowe[1], Jian Lin[1], Stephen Jones[1], Marcia Morita-Sherman[1], Lara Jehi[1]

[1]Cleveland Clinic, Cleveland, OH

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1708 Task-evoked Negative BOLD Response in Human Visual Cortex Regions

Hengda He[1], Qolamreza Razlighi[2]

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1709 Effects of Aging on Arterial Transit Time and Perfusion based on Multi-delay Pseudo-Continuous ASL

Paul T.H. Chang[1], Jacob J.L. Matthews[1], J. Jean Chen[1,2]

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1710 Artificial Intelligence in Brain MRI Analysis of Alzheimer's Disease and Aging

Tory Frizzell[1], Careesa Liu[2], An Zeng[3], Dan Pan[3], Sujoy Ghosh Hajra[4], Ryan D'Arcy[5], Xiaowei Song[6]

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1711 The cross-correlation between the rsfMRI signal and EEG vigilance in eyes-open and eyes-closed

Yixiang Mao[1], Thomas Liu[2]

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1712 Resting-state functional connectivity in individuals with Compulsive Sexual Behavior Disorder

Sylwia Adamus[1], Małgorzata Draps[1], Małgorzata Wierzba[2], Mateusz Gola[3]

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1713 Altered brainstem functional connectivity is linked to gastric peristalsis in functional dyspepsia

Harrison Fisher[1], Roberta Sclocco[1,2], Rowan Staley[1,2], Kyungsun Han[3], April Mendez[2], Christopher Nguyen[4,5], Braden Kuo[2], Vitaly Napadow[1]

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1714 The role of nucleus accumbens in stressful events: volumetric and connectivity findings

Yizhou Ma[1], Kathryn Hatch[1], Si Gao[1], Neda Jahanshad[2], Paul Thompson[2], Peter Kochunov[1], Elliot Hong[1]

[1]Maryland Psychiatric Research Center, Catonsville, MD, [2]Imaging Genetics Center, University of Southern California, Marina del Rey, CA

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1715 Frontal and Temporal Lobe Epilepsy Demonstrate Consistent Changes in the Uncinate Fasciculus

Derrick Lewis[1], Benjamin Brinkmann[2], Jeffrey Britton[2], Robert Witte[3], Franco Pestilli[4], Gregory Worrell[2,5], Kai Miller[6], Dora Hermes[2,3,5]

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1717 The development of brain circuitry supporting conscious awareness in infancy

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1718 The Role of White Matter in the Negative Symptoms of Schizophrenia

Jesse Edmond[1], Dawn Jensen[2], Vince Calhoun[1,2,3], Theo van Erp[4,5,6], Jessica A. Turner[1,2]

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1719 Network Gradients in the Anterior Cingulate Cortex Indicates Integration Across Functional Domains

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1721 Conserved and divergent connectivity principles across the primate phylogenetic tree

Guilherme Blazquez Freches[1], Katherine Bryant[2], Joanna Sierpowska[1], Christian Beckmann[3], Rogier Mars[4]

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1722 Resting state DMN functional connectivity in collegiate football and basketball players

Jadwiga Rogowska[1], Elliott Bueler[1], Jennifer Di Muzio[1], Erin McGlade[1,2,3], Perry Renshaw[1,2,3], Deborah Yurgelun-Todd[1,2,3]

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1723 Deep Neural Networks Reveal Category-Selectivity between Digit and Object

Minyoung Jung[1], Niv Lustig[1], Jong-Hwan Lee[1]

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1724 Modifying effect of sociodemographics on prefrontal cortex and lifetime depression in 9-10 year-olds

Claire Campbell[1], Trevor Pickering[1], Elisabeth Burnor[1], Megan Herting[1]

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1726 Leveraging Numerical Instabilities In Connectome Estimation For More Generalizable Models

Gregory Kiar[1], Yohan Chatelain[2], Ali Salari[2], Pablo de Oliveira Castro[3], Eric Petit[4], Ariel Rokem[5], Bratislav Misic[6], Gaël Varoquaux[7], Alan Evans[8], Tristan Glatard[2]

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1727 Longitudinal and cross-sectional analyses of white matter changes in the healthy aging population

Maria Leonora Fatimah Agan[1,2], Nora Bittner[1,2], Jan Schreiber[1], Simon Eickhoff[1,3], Svenja Caspers[1,2,4]

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1728 Bilingual advantage on executive function measured by functional connectivity and signal variability

Eric Kwun Kei Ng[1,2], Xiaoqian Li[3], Jia Wen Lee[3], Joey Ju Yu Wong[1,2], Juan Helen Zhou[1,2,4,5], W. Quin Yow[3]

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1729 Identifying Sources of Software-dependent Differences in Task fMRI Analyses

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1730 Cortico-Subcortical Interactions in Overlapping Communities of Edge Functional Connectivity

Evgeny Chumin[1], Joshua Faskowitz[1], Farnaz Zamani Esfahlani[1], Youngheun Jo[1], Haily Merritt[1], Jacob Tanner[1], Sarah Cutts[1], Maria Pope[1], Rick Betzel[1], Olaf Sporns[1]

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1731 Smooth graph learning for functional connectivity estimation

Siyuan Gao[1], Xinyue Xia[2], Dustin Scheinost[1], Gal Mishne[2]

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1734 From correlation to communication: decomposing functional connectivity changes

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1736 BCI-Based Cognitive Training Improves Brain Functional Network Segregation in Healthy Elderly

Xing Qian[1], Kwun Kei Ng[1], Si Ning Yeo[2], Yng Miin Loke[1], Yin Bun Cheung[3], Lei Feng[4], Mei Sian Chong[5], Tze Pin Ng[4], K. Ranga Krishnan[6], Cuntai Guan[7], Tih Shih Lee[2], Juan Helen Zhou[1,8,9,10]
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1737 Gender differences on neural bases of post-stop-signal adjustment

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1738 Insula response during interoception after mindfulness training in anxiety, depression, and migraine

Michael Datko[1,2,3], Jacqueline Lutz[2], Richa Gawande[2,1], Alexandra Comeau[2], My Ngoc To[2], Kassandra Round[3], Vi Le[3], Noreen Ward[3], Vitaly Napadow[3,1], Gaelle Desbordes[4], Zev Schuman-Olivier[1,2]
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1739 Neural representations of first language and second language in bilinguals: an ALE meta-analysis

Chuchu Jia[1], Qiu Yidan[1], Meihua Xu[1], Qunjun Liang[1], Yaoke Deng[2], Jinhui Li[1], Senning Zheng[1], Ruiwang Huang[2]
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1741 Deep Learning for Automated Segmentation of Diffuse White Matter Abnormality in Very Preterm Infants

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1742 White Matter Tract Atlases of a Century of Human Life

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1743 Meta-analytic connectivity modelling in adults with Autism Spectrum Disorders

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1744 Mapping cerebral abnormalities using texture analysis in ALS with T2-FLAIR MRI: a multicenter study

Andrew Wu[1], Daniel Ta[1], Adam Elamy[1], Pedram Parnianopour[1], Michael Benatar[2], Lawrence Korngut[3], Angela Genge[4], Lorne Zinman[5], Annie Dionne[6], Robert Welsh[7], Sanjay Kalra[1]
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1745 Integration of multi-modality MRI for early prediction of cognitive deficits using deep learning

Lili He[1,2], Hailong Li[1], Ming Chen[1,3], Jinghua Wang[4], Mekibib Altaye[2,5], Nehal Parikh[2,6]
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1746 Genetic Heterogeneity of Cerebellar Morphologic Anomalies in two Symptomatic Types of schizophrenia

Lin Chai[1], Yaping Wang[2], Gang Li[1], Weiyang Shi[1], Bing Liu[1], Tianzi Jiang[1], Lingzhong Fan[1]

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1748 Brain Age Prediction Reveals Gender and Ethnicity-Dependent Brain Aging Led by Metabolic Syndromes

Bailin Peng[1], Mengting Liu[1], Hosung Kim[2], William Matloff[1], Nina Tanaka[1]

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1749 Young and older adults exhibit a different pattern of neuroplastic changes when exposed to training

Evangelos Paraskevopoulos[1], Nikolaos Chalas[2], Alexandros Karagiorgis[3], Maria Karagianni[2], Charis Styliadis[4], Panagiotis Bamidis[2]

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1751 The role of the right posterior parietal cortex in temporal attention

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1752 Genetic Differential and Co-expression Support the Functional Organization of the Human Cerebellum

Yaping Wang[1,2], Lin Chai[2], Deying Li[2], Qiande Zhao[2], Chaohong Gao[1,2], Kristoffer Madsen[3], Bing Liu[2,4], Lingzhong Fan[2,4]

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1753 Causal role of Precuneus in Concreteness Effect

Jing Yan[1], Wenjuan Li[1], Tingting Zhang[1], Zhenlan Jin[1], Junjun Zhang[1], Ling Li[1]

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1754 Multi-Timepoint Pattern Analysis: Decoding context-dependent brain connectivity dynamics

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1755 Spatial patterns of temporal characteristics of BOLD signals encode pain discriminating information

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1756 The effect of task complexity on the neural network for response inhibition - an ALE meta-analysis

Taraneh Aziz-Safaie[1,2], Veronika Müller[1,2], Robert Langner[1,2], Simon Eickhoff[1,2], Edna Cieslik[1,2]

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1758 Global and modular abnormalities in the brain network of first-episode and chronic schizophrenia

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1759 Divergent Connectional Asymmetries of the IPL Shape Hemispheric Specialization Across Primates

Luqi Cheng[1,2,3], Yuanchao Zhang[1], Gang Li[2,3,4], Jiaojian Wang[1,5], William D. Hopkins[6], Chet C. Sherwood[7], Gaolang Gong[8], Linzhong Fan[2,3,4,9], Tianzi Jiang[1,2,3,9,10]

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1760 Auditory evoked magnetic fields related to meaningful and meaningless synthetic speech words

Minoru Hayashi[1]

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1761 Determining language-related regions using the "super-selective" Wada test

Kazuo Kakinuma[1], Shin-ichiro Osawa[1], Kazushi Ukishiro[2], Hiroaki Hosokawa[3], Marie Oyafuso[1], Shoko Ota[1], Erena Kobayashi[1], Nobuko Kawakami[1], Dai Agari[1], Kazutaka Jin[1], Makoto Ishida[1], Takafumi Sato[4], Mika Sakamoto[4], Akitake Kanno[1], Kuniyasu Niizuma[1], Teiji Tominaga[1], Nobukazu Nakasato[1], Kyoko Suzuki[1]

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1762 Synthesis-based paradigm free mapping and analysis-based total activation operate identically

Eneko Uruñuela[1], Stefano Moia[1], César Caballero-Gaudes[1]

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1763 Between-network connectivity in Parkinson's disease associated with disease severity

Miriam Dodegge[1,2], Filip Růžička[3], Juergen Dukart[1,2], Robert Langner[1,2], Christian Rubbert[4], Simon Eickhoff[1,2], Julian Caspers[4], Robert Jech[3], Kaustubh R. Patil[1,2]

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1764 On Autocorrelation of Task fMRI

Soroosh Afyouni[1,2], Mark Jenkinson[3], Mark Woolrich[4], Thomas Nichols[2]

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1765 Cerebellar dysconnectivity in drug-naïve first-episode schizophrenia

Hengyi Cao[1], Xia Wei[2], Wenjing Zhang[2], Yuan Xiao[2], Jiaxin Zeng[2], John Sweeney[3], Qiyong Gong[2], Su Lui[2]

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1766 Functional Connectivity is Associated with Development in Children with Congenital Heart Disease

Sarah Provost[1], Solène Fourdain[1], Phetsamone Vannasing[2], Julie Tremblay[2], Kassandra Roger[3], Marie-Claude Vinay[4], Zorina Von Siebenthal[4], Amélie Doussau[4], Nancy Poirier[4], Anne Gallagher[5]

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1767 Transient clusters in simulated networks of heterogeneous neuronal populations

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1768 Investigating the inter-subject and spatial variability of physiological response functions in fMRI

Laura Carlton[1], Georgios Mitsis[1], Michalis Kassinopoulos[2]

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1770 Multimodal Brain Abnormalities Associated with Cognitive Impairment in HIV Infection

Xiang Li[1,2], Christina Meade[3], Ryan Bell[3], Sheri Towe[3], Syam Gadde[3], Nan-kuei Chen[4], Jing Sui[1,2,5]

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1771 Task-general and multi-domain activation in the human thalamus

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1772 Effects of the education on the information communication in the elders

Daegyeom Kim[1], Jaehee Park[1,2], ByeongChang Jeong[1,2], Hyun-Ghang Jeong[3,4], Cheol Han[1,2]

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1773 Disease Progression Modelling and Subtyping in Parkinson's

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1774 Cleaning covert sentence production activation maps with a phase-based fMRI data analysis

Iñigo De Vicente[1], Eneko Uruñuela[1], Maite Termenon[1], César Caballero-Gaudes[1]

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1775 Shared response modelling of S1 digit representations in younger and older adults using 7T fMRI

Avinash Kalyani[1,2], Oliver Contier[3,4], Christoph Reichert[1,5], Elena Azañon[1,5], Esther Kuehn[1,2,6]

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1776 Validation of a training pipeline designed to increase BIANCA performance and applicability

Valentina Bordin[1], Florin Ciobanu[1], Maria Elvira Laurino[1], Giulia Mazzetti[1], Vaanathi Sundaresan[2], Maria Marcella Laganà[3], Ludovica Griffanti[2,4], Giuseppe Baselli[1]

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1778 ShinySurfer: A tool for visualization and statistical analysis of cortical parameters

Sandra Klawitter[1], Yixiao Cai[2], Baichao Ye[2], Frank Klawonn[1], Peter Soros[3]

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1779 Effects of action magnitude in action representations

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1780 Cortical thickness after pediatric mild traumatic brain injury: an ABCD-based retrospective study

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1781 Transdiagnostic connectome-based prediction of craving

Kathleen Garrison[1], Rajita Sinha[1], Marc Potenza[1], Siyuan Gao[1], Qinghao Liang[1], Cheryl Lacadie[1], Dustin Scheinost[1]

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1782 CloudReg: Automatic Terabyte-Scale Cross-Modal Brain Volume Registration

Vikram Chandrashekhar[1], Daniel Tward[2], Devin Crowley[3], Ailey Crow[4], Matthew Wright[4], Brian Hsueh[4], Felicity Gore[4], Timothy Machado[4], Audrey Branch[1], Jared Rosenblum[5], Karl Deisseroth[4], Joshua Vogelstein[1]

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1783 Exploring the cortex microstructure in newborns: A clustering approach of diffusion MRI parameters

Flore Ginzburg[1], Maëlig Chauvel[2], Cindy Rolland[1], Kevin Aubrain[1], François Leroy[3], Héloïse de Vareilles[2], Laurie Devisscher[1], Lucie Hertz-Pannier[1], Jean-François Mangin[2], Jessica Lebenberg[4], Jessica Dubois[1]

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1784 Characteristics of the Preterm Infant Connectome in the Early Postnatal Period

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1786 Uncovering Individual Differences in Fine-Scale Dynamics of Functional Connectivity

Sarah Cutts[1], Joshua Faskowitz[1], Richard Betzel[1], Olaf Sporns[1]

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1787 Using Eye Movement as a Measure of Semantic Memory Retrieval Pattern

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1788 Entropy Mapping Revealed A Common Neural Substrate for Different Substance Dependence

Ze Wang[1]

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1789 Sex classification models based on temporal complexity features

Liam Spoletini[1], Shengchao Zhang[1], Benjamin Gold[1,2], Victoria Morgan[1,2], Baxter Rogers[1,2], Catie Chang[1,2]

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1790 Intra- and inter-individual differences in network connectivity during naturalistic stimulation

Jean-Philippe Kröll[1,2], Kaustubh R. Patil[1,2], Xing Qian[3], Ken Wong[3], Yng Min Loke[3], Michael Chee Wei Liang[3], Juan Helen Zhou[3], Simon Eickhoff[1,2], Susanne Weis[1,2]

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1791 Cerebellum volumes reduction of essential tremor: The effects from confounder controlling

Qing Wang[1], Meshal Aljassar[2], Nikhil Bhagwat[3], Abbas Sadikot[2], Jean-Baptiste Poline[3]

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1792 Serotonergic modulation of task-specific functional connectivity in relearning

Murray Reed[1], Thomas Vanicek[1], Rene Seiger[1], Manfred Klöbl[1], Patricia Handschuh[1], Vera Ritter[1], Jakob Unterholzner[1], Godber Godbersen[1], Gregor Gryglewski[1], Christoph Kraus[1], Andreas Hahn[1], Rupert Lanzenberger[1]

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1793 The dynamic modular fingerprints of the human brain at rest

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1794 Language and domain-general cognition in healthy and post-stroke individuals - an fNIRS study

Natalie Gilmore[1], Swathi Kiran[1], Meryem Yucel[1], David Boas[1]

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1795 Prediction of psychosis using an interpretable supervised algorithm: Enet-TV

Anton Iftimovici[1], Marie-Odile Krebs[2], Edouard Duchesnay[3]

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1796 Macroscale cortical organization in Type 2 Diabetes Mellitus and Metabolic Syndrome: a 7T fMRI study

Mohamed Yousif[1], Ali Khan[1,2,3], Jacobus Jansen[4], Elia Formisano[5], Kamil Uludag[6,7,8], Roy Haast[1]

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1797 Disentangling the differential maturation of sensorimotor cortices in newborns compared to adults

Laurie Devisscher[1], Maëlig Chauvel[2], Cindy Rolland[1], Nicole Labra[2], Kevin Aubrain[1], François Leroy[3], Héloïse de Vareilles[2], Lucie Hertz-Pannier[1], Antoine Grigis[2], Jean-François Mangin[2], Jessica Dubois[1]

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1798 Validation of Frontal Alpha Asymmetry EEG Neurofeedback in Major Depression using Simultaneous fMRI

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1799 Large-scale analysis of sex differences in subcortical volume across the adult lifespan

Christopher Ching[1], Alexandra Muir[1], Vigneshwaran Santhalingam[1], Zvart Abaryan[2], Alyssa Zhu[1], Sophia Thomopoulos[1], Neda Jahanshad[1], Paul Thompson[1]

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1800 Identification of the Human Midline Thalamus using Probabilistic Tractography

Puck Reeders[1], Aaron Mattfeld[2], Timothy Allen[2]

[1]Florida International University, Hollywood, FL, [2]Florida International University, Miami, FL

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1801 Structural Brain Correlates of Cognitive Deficits in Schizophrenia: A Meta-Analysis

Marianne Khalil[1], Philippine Hollander[2], Delphine Raucher-Chéné[1], Martin Lepage[1,2], Katie Lavigne[1]

[1]McGill University, Montreal, Quebec, [2]Douglas Mental Health University Institute, Montreal, Quebec

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1802 Geometric effects of volume to surface mapping

Keith George Ciantar[1], Ting Xu[2], Claude Bajada[1]
[1] *University of Malta, Msida, Malta,* [2] *Child Mind Institute, New York, NY*

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1803 Acute effects of exercise on prefrontal cortex activation during executive function tasks

James Crum[1], Paul Burgess[1], Flaminia Ronca[1]
[1] *University College London, London, UK*

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1804 FMRI connectivity mapping in the awake mouse brain reveals a dynamic signature of consciousness

Daniel Gutierrez-Barragan[1], Neha Singh[1], Ludovico Coletta[1], Mauro Uboldi[2], Alessandro Gozzi[1]
[1] *Functional Neuroimaging Laboratory, Istituto Italiano di Tecnologia, CNCS, Rovereto, Trento,* [2] *Ugo Basile SRL, Gemonio, Varese*

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1805 Multi-class arterial segmentation of the Circle of Willis from MR angiography using deep learning

Félix Dumais[1], Marco Perez Caceres[1], Noémie Arès-Bruneau[2], Christian Bocti[2,3,4], Kevin Whittingstall[5]
[1] *Médecine Nucléaire et Radiobiologie, Université de Sherbrooke, Sherbrooke, Québec,* [2] *Faculté de Médecine et des Sciences de la Santé, Université de Sherbrooke, Sherbrooke, Québec,* [3] *Clinique de la Mémoire et Centre de Recherche sur le Vieillissement, CIUSSS de l'Estrie-CHUS, Sherbrooke, Québec, Canada,* [4] *Service de Neurologie, Département de Médecine, CHUS, Sherbrooke, Québec, Canada,* [5] *Radiologie diagnostique, Université de Sherbrooke, Sherbrooke, Québec*

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1806 Brain health and brain-body relationships in healthy individuals

Yizhou Ma[1], Kathryn Hatch[1], Si Gao[1], Neda Jahanshad[2], Paul Thompson[2], Elliot Hong[1], Peter Kochunov[1]
[1] *Maryland Psychiatric Research Center, Catonsville, MD,* [2] *Imaging Genetics Center, University of Southern California, Marina del Rey, CA*

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1807 Microstate Alterations Associated with Seizure Events in Full-term Neonates

Mohammad Khazaei[1], Khadijeh Raeisi[1], Pierpaolo Croce[1], Gabriella Tamburro[1], Filippo Zappasodi[2], Silvia Comani[3]
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1808 Methods for multivariate single trial decoding of M\EEG data with high overlap: simulations

Gal Vishne[1], Carmel Auerbach-Asch[1], Leon Deouell[1]
[1] *The Hebrew University, Jerusalem, Israel*

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1809 Functional connectome stability as a marker of cognitive performance

Anna Corriveau[1], Kwangsun Yoo[2], Young Hye Kwon[2], Marvin Chun[2], Monica Rosenberg[1]
[1] *Department of Psychology, The University of Chicago, Chicago, IL,* [2] *Department of Psychology, Yale University, New Haven, CT*

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1810 Deep Mediation: a new approach towards high-dimensional mediation analysis

Tanmay Nath[1], Brian Caffo[2], Tor Wager[3], Martin Lindquist[4]
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1811 Characterizing White Matter Microstructure and Cognition in Healthy Older APOE-ε2 and ε3 Carriers

Colleen Lacey[1], Jodie Gawryluk[2]
[1] *University of Victoria, Victoria, BC,* [2] *University of Victoria, Victoria, British Columbia*

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1812 Spatial and feature-selective attention interact multiplicatively in multiple-demand network

Nadene Dermody[1], Romy Lorenz[1,2], Alexandra Woolgar[1]
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1813 Movie–watching fMRI for presurgical language mapping in brain tumor patients

Shun Yao[1], Laura Rigolo[1], Alexandra Golby[1], Einat Liebenthal[2], Yanmei Tie[1]
[1] *Brigham and Women's Hospital, Harvard Medical School, Boston, MA,* [2] *McLean Hospital, Harvard Medical School, Belmont, MA*

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1814 ASLPrep: A Generalizable Workflow for Processing of Arterial Spin Labeled MRI

Azeez Adebimpe[1], Maxwell Bertolero[1], Sudipto Dolui[1], Matthew Cieslak[1], Kristin Murtha[1], Erica Baller[1], Ellyn Butler[1], Philip Cook[1], Stanley Colcombe[2], Sydney Covitz[1], Christos Davatzikos[1], Diego Davilla-Feliciano[1], Matthew Flounders[1], Mark Elliott[1], Alexandre Franco[3], Ruben Gur[1], Raquel Gur[1], Basma Jaber[1], Corey McMillan[1], Michael Milham[3], Desmond Oathes[1], Christopher Olm[1], Henk Mutsaerts[4], Jeffery Phillips[1], William Tackett[1], David Roalf[1], Tinashe Tapera[1], Dylan Tisdall,[1], Oscar Esteban[5], Russell Poldrack[6], John Detre[1], Theodore Satterthwaite[1]
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1815 Functional brain network of transsaccadic integration: Evidence from fMRI and graph theory analysis

George Tomou[1], Bianca Baltaretu[1], Amirhossein Ghaderi[1], J. Douglas Crawford[1]

[1] York University, Toronto, Ontario

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1816 The Impact of "Screen Time" on Adolescent Psychopathology & Cognitive Function

Valerie Braddick[1], Alexandra Potter[2], Hugh Garavan[2], Bader Chaarani[1]

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1817 Sustainability of computational neuroimaging in the era of deep-learning

Nikhil Bhagwat[1], Jean-Baptiste Poline[2]

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1818 Development of Whole-Brain Networks from Childhood to Adulthood in Typical Development and Autism

Chirag Mehra[1], Pilar Garcés[2], Petroula Laiou[3], Charlotte Pretzsch[1], AIMS-2-TRIALS LEAP study[4], Michael Absoud[5,6], Eva Loth[1], Emily Jones[7], Declan Murphy[1], Mark Richardson[8], Jonathan O'Muircheartaigh[1]

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1819 Generalized Neural Mass Model for Characterization EEG Dynamics Transition

Sepehr Radmannia[1], Obaï Bin Ka'b Ali[1], Alexandre Vidal[2], Hassan Rivaz[1], Habib Benali[1]

[1] PERFORM Centre, Concordia University, Montreal, QC, [2] université d'Évry-Val d'Essonne, Évry, Évry

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1820 Characterization The Dynamics of Generalized Neural Mass Model

Sepehr Radmannia[1], Obaï Bin Ka'b Ali[1], Alexandre Vidal[2], Hassan Rivaz[1], Habib Benali[1]

[1] PERFORM Centre, Concordia University, Montreal, QC, [2] université d'Évry-Val d'Essonne, Évry, Évry

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1821 Respiratory function modulated during execution, observation, and imagination of walking via SII

Antonello Pellicano[1], Gianluca Mingoia[2], Christoph Ritter[3], Giovanni Buccino[4], Ferdinand Binkofski[5]

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1823 The association between cortical thickness and dimensions of the adolescent psychosis spectrum

Alyssa Dai[1,2], Gabriel A. Devenyi[1,2], Manuela Costantino[1,2], Jakob Seidlitz[3,4], Theodore Satterthwaite[4], Mallar Chakravarty[1,2]

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1824 Selecting an Optimal Realtime fMRI Neurofeedback Signal Source for Alcohol Craving Treatment

Reza Momenan[1], Samantha Fede[1], Vinai Roopchansingh[2], Sarah Dean[1], Mallory Kisner[1]

[1] CNIRC, NIAAA, NIH, Bethesda, MD, [2] NIMH, NIH, Bethesda, MD

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1825 Predicting brain activation maps for arbitrary tasks with ontology-based encoding models

Jonathon Walters[1], Maedbh King[2], Patrick Bissett[1], Richard Ivry[2], Jörn Diedrichsen[3], Russell Poldrack[1]

[1] Stanford University, Stanford, CA, USA, [2] University of California Berkeley, Berkeley, CA, USA, [3] Western University, London, Ontario, CA

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1826 Identifying tissue specific transcriptomic effects on brain volume measures from GWAS summary data

Hung Mai[1], Jingxuan Bao[1], Paul Thompson[2], Dokyoon Kim[1], Li Shen[1]

[1] University of Pennsylvania, Philadelphia, PA, [2] Imaging Genetics Center, University of Southern California, Marina del Rey, CA

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1827 Transcranial direct current stimulation induces structural plasticity in depression

Mayank Jog[1], Cole Anderson[1], Antoni Kubicki[1], Michael Boucher[1], Gerhard Hellemann[2], Roger Woods[1], Katherine Narr[1]

[1] University of California Los Angeles, Los Angeles, CA, [2] University of Alabama, Birmingham, Birmingham, AL

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1829 Whole brain age-related patterns of atrophy, microstructure, and cognitive decline

Stephanie Tullo[1], Raihaan Patel[1], Gabriel Devenyi[1], Alyssa Salaciak[1], Saashi Bedford[2], Sarah Farzin[1], Christine Tardif[3], Mallar Chakravarty[1]

[1] Brain Imaging Centre, Douglas Research Center, Verdun, Quebec, [2] University of Cambridge, Cambridge, England, [3] McConnell Brain Imaging Center, Montreal Neurological Institute, Montreal, Quebec

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1830 Gender differences in the interaction between FKBP5 rs1360780 and parental care on brain structure

Izumi Matsudaira[1], Hikaru Takeuchi[1], Hiroaki Tomita[1], Ryuta Kawashima[1], Yasuyuki Taki[1]

[1]Tohoku University, Sendai, Japan

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1831 Genetic variant of RELN correlates with brain structure and cognitive function in young adult female

Ryo Yamaguchi[1], Izumi Matsudaira[1], Hikaru Takeuchi[1], Hiroaki Tomita[1], Ryuta Kawashima[1], Yasuyuki Taki[1]

[1]Tohoku University, Sendai, Japan

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1832 An unbiased high resolution and detail-preserving structural template of the older adult brain

ABDUR RAQUIB RIDWAN[1], Yingjuan Wu[1], Mohammad Rakeen Niaz[1], Xiaoxiao Qi[1], David Bennett[2], Konstantinos Arfanakis[3]

[1]Illinois Institute of Technology, Chicago, IL, [2]Rush University Medical Center, Chicago, IL, [3]Illinois Institute of Technology, Chicago, IL

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1833 Partial volume effect correction of PET images using 3d-residual-U-net

Changseok Lee[1,2], ByeongChang Jeong[1,2], Hyun-Ghang Jeong[3,4], Cheol Han[1,2]

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1834 Multivariate Brain Morphological Signatures Predict People Reporting Chronic Pains For Over 2 Years

Ravi Bhatt[1], Alyssa Zhu[2], Elizabeth Haddad[1], Paul Thompson[3], Emeran Mayer[4], Neda Jahanshad[3]

[1]University of Southern California, Los Angeles, CA, [2]University of Southern California, Marina del Rey, CA, [3]Imaging Genetics Center, Keck School of Medicine, University of Southern California, Marina del Rey, CA, [4]G. Oppenheimer Center for Neurobiology of Stress and Resilience, UCLA, Los Angeles, CA

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1836 A cross-cohort study: sexual dimorphism in the relationship between brain complexity & intelligence

Anca-Larisa Sandu[1], Gordon Waiter[1], Nafeesa Nazlee[1], Tina Habota[1], Chris McNeil[1], Dorota Chapko[2], Justin Williams[3], Caroline Fall[4], Giriraj Chandak[5], Shailesh Pene[6], Murali Krishna[7], Andrew McIntosh[8], Heather Whalley[8], Kalyanaraman Kumaran[4,9], Ghattu Krishnaveni[9], Alison Murray[1]

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1837 Evaluating and Integrating Physiological Signatures of Attention Reorienting in Virtual Reality

Pawan Lapborisuth[1], Sharath Koorathota[1], Zhitong Wang[1], Qi Wang[1], Paul Sajda[1]

[1]Columbia University, New York, NY, United States

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1838 Mobile Footprinting: Identifying Individuals Using Naturalistic Mobility Patterns

Cedric Huchuan Xia[1], Ian Barnett[1], Tinashe Tapera[1], Zaixu Cui[1], Tyler Moore[1], Sage Rush-Goebel[1], Kayla Piiwaa[1], Kristin Murtha[1], Sophia Linguiti[1], Melissa Martin[1], Monica Calkins[1], David Lydon-Staley[1], Justin Baker[2], Lyle Ungar[1], Theodore Satterthwaite[1]

[1]University of Pennsylvania, Philadelphia, PA, [2]Harvard Medical School, Boston, MA

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1839 Identifying the Common Neural Circuits Disruption in Inhibitory Control across Psychiatric Disorders

Haifeng Yan[1], Way Lau[2], Jixin Long[1], Xiaoqi Song[1], Chanyu Wang[1], Jiubo Zhao[1], Xiangang Feng[1], Ruiwang Huang[3], Maosheng Wang[4], Xiaoyuan Zhang[1], Ruibin Zhang[1]

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1840 Detection of rapid eye movement sleep behavior disorder using machine learning

Jie Mei[1], Shady Rahayel[2], Christian Desrosiers[3], Johannes Frasnelli[1], Jean-François Gagnon[4]

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1842 The Tensor Dimensionality Reduction Method in Deep Learning Based Sex Classification Using Brain MRI

Yi-Ju Lee[1], Toshinari Morimoto[2], Su-Yun Huang[1]
[1]*Institute of Statistical Science, Academia Sinica, Taipei City, Taiwan,* [2]*Department of Mathematics, National Taiwan University, Taipei City, Taiwan*

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1843 Transcriptomic contributions to the cytoarchitectonic parcellation of the human cerebral cortex

Leana King[1], Jesse Gomez[2], Zonglei Zhen[3], Kevin Weiner[1]
[1]*University of California, Berkeley, Berkeley, CA,* [2]*Princeton, Princeton, NJ,* [3]*Beijing Normal University, Beijing, China*

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1844 Functional Connectivity Changes in Psychosis: A triple-blind, placebo-control MRI study

Sidhant Chopra[1], Shona Francey[2], Brian O'Donoghue[2], Kristina Sabaroedin[1], Aurina Arnatkeviciute[1], Vanessa Cropley[3], Barnaby Nelson[2], Jessica Graham[2], Lara Baldwin[2], Hok Pan Yuen[2], Kelly Allott[2], Mario Alvarez-Jimenez[2], Susy Harrigan[2], Christos Pantelis[3], Stephen Wood[2], Patrick McGorry[2], Alex Fornito[1]
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1846 Correlations between cerebral CSF flow and spatiotemporal resting state BOLD signal fluctuations

Bingyang Cai[1], Hui Huang[1], Jie Luo[1]
[1]*Shanghai Jiao Tong University, Shanghai, China*

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1847 Organization of the Macaque Inferior Parietal Lobe Based on Multimodal Receptor Architectonics

Meiqi Niu[1], Lucija Rapan[1], Thomas Funck[1], Seán Froudist-Walsh[2], Ling Zhao[1], Karl Zilles[1], Nicola Palomero-Gallagher[1]
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1848 Multimodal brain data improve prediction of processing speed in older adults

Mengxia Gao[1], Tatia Lee[1]
[1]*The University of Hong Kong, Hong Kong*

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1849 HD-EEG for tracking sub-second brain dynamics during cognitive tasks

Mahmoud Hassan[1], Ahmad Mheich[1], olivier dufor[2], Aya Kabbara[3], Sahar Yassine[1], Arnaud Biraben[4], Fabrice Wendling[3]
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1850 Imaging-transcriptomics model of intracortical development during youth

Casey Paquola[1,2], Matthias Kirschner[3], Noor Sharif[2], Sara Larivière[2], Bo-yong Park[2], Oualid Benkarim[4], Alan Evans[2], Boris Bernhardt[2]
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1851 Neuroimaging evidence for a network sampling theory of human intelligence

Eyal Soreq[1], Richard Daws[1], Ines violante[2], Adam Hampshire[1]
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1852 The cerebellum and its role in motor networks and performance:A volumetric approach

Gitta Barezipour[1], Nora Bittner[1,2], Martina Minnerop[2,3,4], Svenja Caspers[1,2]
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1853 Associations between striatal iron and dopamine D1 receptor availability across the adult lifespan

Jonatan Gustavsson[1], Jarkko Johansson[2], Farshad Falahati[1], Goran Papenberg[1], Bárbara Avelar Pereira[1], Grégoria Kalpouzos[1], Alireza Salami[3]
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1854 Intra- and inter-session reproducibility of artificial scotoma pRF mapping at ultra-high fields

David Linhardt[1], Maximilian Pawloff[2], Allan Hummer[1], Michael Woletz[1], Martin Tik[1], Maria Vasileiadi[1], Markus Ritter[2], Ursula Schmidt-Erfurth[2], Christian Windischberger[1]
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1855 EEGNET2: An open source tool for group-level analysis of M/EEG connectome

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1856 Improving Functional Connectivity Estimates with Data-Driven Scrubbing

Damon Pham[1], Amanda Mejia[1]

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1857 BigBrainWarp: Tools and workflows for integration of 3D histology with multimodal neuroimaging

Casey Paquola[1,2], Jessica Royer[2], Tristan Glatard[3], Konrad Wagstyl[4], Jordan DeKraker[5], Oualid Benkarim[2], Yezhou Wang[6], Yun Lu[2], Paule Toussaint[2], Katrin Amunts[1], Alan Evans[2], Timo Dickscheid[1], Boris Bernhardt[2]

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1858 Prediction of human cognition: Are predictive features reliable and reproducible?

Ye Tian[1], Andrew Zalesky[1]

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1859 Longitudinal Study of Intrinsic Functional Network Topology in Children with ADHD

Shania Soman[1], Nandita Vijayakumar[1], Gareth Ball[2], Christian Hyde[1], Timothy Silk[1]

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1860 Top-down attention modulates spatiotemporal dynamics of object selectivity: An MEG-fMRI fusion study

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1861 Exploring the Laminar Connectome

Ittai Shamir[1], Omri Tomer[2], Ronnie Krupnik[2], Yaniv Assaf[2]

[1] *Tel Aviv University, Tel Aviv, Israel,* [2] *Tel Aviv University, Tel Aviv, Israel*

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1862 Network Occlusion Sensitivity Analysis reveals Brain Regions related to Aging

Cheng Chen[1], Junhai Xu[1], Yaping Wang[2,3], Lin Chai[2,3], Gang Li[2,3], Lingzhong Fan[2,3]

[1] *College of Intelligence and Computing, Tianjin University, Tianjin, China,* [2] *Brainnetome Center, Beijing, China,* [3] *Institute of Automation, Chinese Academy of Sciences, Beijing, China*

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1863 Latent space representation of Task-fMRI using 3d-Autoencoder in a large study: HCP and UK-biobank

Mariam Zabihi[1], Seyed Mostafa Kia[2], Christian Beckmann[3], Andre Marquand[4]

[1] *Department of Cognitive Neuroscience, Radboud University Medical Center, Nijmegen, [Select a State],* [2] *Donders, Nijmegen, Netherlands,* [3] *Radboud University, Nijmegen, Nijmegen,* [4] *Radboud University, Nijmegen, Gelderland*

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1864 Contentless Thinking is Associated with Whole-Brain Positive Inter-Areal Connectivity Patterns

Seperh Mortaheb[1], Laurens Van Calster[1], Paradeisios Boulakis[1], Kleio Georgoula[1], Steve Majerus[1], Athena Demertzi[1]

[1] *University of Liege, Liege, Belgium*

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1865 Evolutionarily conserved fMRI network dynamics in the human, macaque and mouse brain

Daniel Gutierrez-Barragan[1], Stefano Panzeri[2], Ting Xu[3], Alessandro Gozzi[1]

[1] *Functional Neuroimaging Laboratory, Istituto Italiano di Tecnologia, CNCS, Rovereto, Italy.,* [2] *. Neural Computation Laboratory, Istituto Italiano di Tecnologia, CNCS, Rovereto, Italy.,* [3] *Center for the Developing Brain, Child Mind Institute, New York, NY*

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1866 Within-category discrimination distinguishes musicians from non-musicians in categorical perception

Chantal Oderbolz[1,2], Simon Leipold[1,3], Marielle Greber[1], Lutz Jäncke[1]

[1] *Division Neuropsychology, Department of Psychology, University of Zurich, 8050 Zurich, Switzerland,* [2] *Department of Comparative Language Science, University of Zurich, 8050 Zurich, Switzerland,* [3] *Department of Psychiatry and Behavioral Sciences, Stanford University, School of Medicine, Stanford, CA 94305, USA*

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1867 Entropic Traces of Noise Resistant Computational Networks

Jules BROCHARD[1], Jean Daunizeau[1]

[1] *Brain Institute Paris, Paris, Ile-de-France*

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1868 Associations of Sleep Duration with Global Cognition and Gray Matter Volume in Children aged 9 to 11

Hoki Fung[1], Ju Lynn Ong[1], B.T. Thomas Yeo[1], Michael WL Chee[1]

[1] *Centre for Sleep and Cognition, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore*

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1869 A multimodal fusion study of spinocerebellar ataxia type 3 using parallel ICA + ICA on PET and fMRI

Harm Jan van der Horn[1], Jelmer Kok[1], Sanne Meles[1], Victor M. Vergara[2], Shile Qi[3], Vince Calhoun[4], Jelle Dalenberg[1], Bauke de Jong[1], Jeroen de Vries[1], Joke Spikman[1], Hubertus Kremer[1]

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1870 Temporal Evolution of Oscillatory Bursts in Intracranial EEG before Seizures

Andrei Medvedev[1]

[1] *Georgetown University, Washington, DC*

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1871 Robust temporal interpolation of acquisition time differences for 3D fMRI sequences

Samuel Bianchi[1], Jakob Heinzle[2], Lars Kasper[1,2,3], Maria Engel[1], Klaas P Pruessmann[1]

[1] Institute for Biomedical Engineering, ETH Zurich & University of Zurich, Zurich, Switzerland, [2] Translational Neuromodeling Unit, University of Zurich & ETH Zurich, Zurich, Switzerland, [3] Techna Institute, University Health Network,, Toronto, Canada

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1872 Differential default-mode network effective connectivity in young-onset Alzheimer's disease variants

Seda Sacu[1], Catherine Slattery[2], Jonathan Schott[2], Adeel Razi[3]

[1] Berlin School of Mind and Brain, Humboldt Universität zu Berlin, Berlin, Brandenburg, [2] University College London, London, London, [3] Monash University, Wantirna, Australia

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1873 An fMRI study on flow motion perception from visuo-tactile integration

Jeanne Caron-Guyon[1], Caroline Landelle[2], Jean-Luc Anton[3], Bruno Nazarian[3], Julien Sein[3], Nicolas Catz[1], Anne KAVOUNOUDIAS[1]

[1] Aix-Marseille University, Marseille, Provence-Alpes-Côte-d'Azur, [2] McGill University, Montreal, Quebec, [3] CNRS, Marseille, Provence-Alpes-Côte-d'Azur

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1875 Instantaneous network modularity and cognitive performance in Parkinson's disease patients

Siva Venkadesh[1], Dawn Schiehser[2], Andrew Petkus[3], Michael Jakowec[3], Giselle Petzinger[3], John Van Horn[1]

[1] University of Virginia, Charlottesville, VA, [2] University of California, San Diego, CA, [3] University of Southern California, Los Angeles, CA

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1876 Exploring the role of frontoparietal cortex in visual search by fMRI-TMS on early and later time

Danmei Zhang[1], Banglei Yu[1], Ling Li[1]

[1] Key Laboratory for NeuroInformation of Ministry of Education, Chengdu, Sichuan

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1877 Reliability of resting-state functional connectivity in the human spinal cord at 3T

Merve kaptan[1], Ulrike Horn[1], Johanna Vannesjo[2], Toralf Mildner[1], Nikolaus Weiskopf[1,3], Juergen Finsterbusch[4], Falk Eippert[1]

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1878 EEG Microstates Distinguish Active and Quiet Sleep During the Neonatal Period

Khadijeh Raeisi[1], Mohammad Khazaei[1], Pierpaolo Croce[1], Gabriella Tamburro[1], Silvia Comani[2], Filippo Zappasodi[3]

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1879 Measuring the incidence of structural alteration across gray matter

JORDI MANUELLO[1], Donato Liloia[2], LORENZO MANCUSO[3], ANDREA NANI[3], tommaso costa[3], FRANCO CAUDA[3]

[1] Università degli Studi di Torino, Torino, TX, [2] University of Turin, Turin, Italy, [3] Università degli Studi di Torino, Torino, PR

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1880 Exploring the mechanisms of less affected hand impairment in unilateral stroke with diffusion MRI

Firdaus Fabrice HANNANU[1], Bernadette Naegele[2], Marc Hommel[1], Alexandre Krainik[3], Olivier Detante[2], Assia Jaillard[1,4]

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1881 Overcoming bias in representational similarity analysis

Roberto Viviani[1]

[1] University of Innsbruck, Innsbruck, AK

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1882 High test-retest reliability of the human functional connectome over 1.5 years

Maximilian Lueckel[1,2], Matthias Zerban[1,2], Miriam Kampa[1,3], Anita Schick[1,4], Alexandra Sebastian[5], Michèle Wessa[6,2], Oliver Tuescher[5,2], Raffael Kalisch[1,2], Kenneth Yuen[1,2]

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1883 A new Hypothesis on Brain Plasticity: Dynamic Changes of GM & WM After Retinal Gene Therapy

Manzar Ashtari[1], Philip Cook[1], Mikhail Lipin[1], Yinxi Yu[1], Gui-shuang Ying[1], James Gee[1], Albert Maguire[1], Jean Bennett[1], Hui Zhang[2]

[1] University of Pennsylvania, Philadelphia, PA, [2] University College London, London, London

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1884 Identification and synthesis of preferred images for individual regions in the human visual cortex

Zijin Gu[1], Keith Jamison[2], Meenakshi Khosla[1], Mert Sabuncu[1], Amy Kuceyeski[3]

[1]Cornell University, Ithaca, NY, [2]Weill Cornell Medicine, New York, NY, [3]Weill Cornell Medicine, Ithaca, NY

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1885 An Agent-Based Model Recreates the Propagation of Alpha-Synuclein Pathology in the Mouse Brain

Shady Rahayel[1,2], Bratislav Misic[1], Ying-Qiu Zheng[3], Zhen-Qi Liu[1], Alaa Abdelgawad[1], Nooshin Abbasi[1], Anna Caputo[4], Bin Zhang[4], Angela Lo[4], Victoria Kehm[4], Michael Kozak[4], Hansoo Yoo[4], Kelvin Luk[4], Alain Dagher[1]

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1886 A pragmatic approach to reuseable research outputs

Adina Wagner[1], Jean-Baptiste Poline[2], Michael Hanke[3]

[1]Juelich Research Centre, Juelich, Germany, [2]McGill University, Montreal, Quebec, [3]Juelich Research Centre and Heinrich Heine University Düsseldorf, Juelich and Düsseldorf, Germany

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1888 Whether and how resource sharing resists scarcity: the role of cognitive empathy

Xiaoxuan Huang[1], Jie Liu[2,1], Ruolei Gu[3,4], Fang Cui[1,2]

[1]School of Psychology, Shenzhen University, Shenzhen, China, [2]Center for Brain Disorders and Cognitive Neuroscience, Shenzhen University, Shenzhen, China, [3]CAS Key Laboratory of Behavioral Science, Institute of Psychology, Beijing, China, [4]Department of Psychology, University of Chinese Academy of Sciences, Beijing, China

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1889 Dissociable Multi-scale Patterns of Development in Personalized Brain Networks

Adam Pines[1], Bart Larsen[2], Zaixu Cui[2], Max Bertolero[1], Hongming Li[1], Azeez Adebimpe[1], Aaron Alexander-Bloch[1], Danielle Bassett[1], Damien Fair[3], Ruben Gur[1], Raquel Gur[1], Michael Milham[4], Tyler Moore[1], Kristin Murtha[1], Sheila Shanmugan[1], Russell Shinohara[1], Valerie Sydnor[1], Sarah Weinstein[1], Yong Fan[1], Theodore Satterthwaite[1]

[1]University of Pennsylvania, Philadelphia, PA, [2]University of Pennsylvania, Pennsylvania, PA, [3]University of Minnesota, Minneapolis, MN, [4]Child Mind Institute, New York, NY

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1890 Predicting Psychopathology Factor from Functional Connectivity via Neural Networks

Jinwoo Hong[1], Jong-Hwan Lee[1]

[1]Korea University, Seoul, Korea, Republic of

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1891 The null distribution of cross-validated MVPA errors: characterization and parametric approximations

Giancarlo Valente[1]

[1]Maastricht University, Maastricht, The Netherlands

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1892 Increased sex hormones are associated with increased segregation of functional connectivity networks

Elaine Wu[1], Elvisha Dhamala[2], Laura Pritschet[3], Tyler Santander[3], Emily Jacobs[3], Amy Kuceyeski[2]

[1]Cornell University, Ithaca, NY, [2]Weill Cornell Medicine, Ithaca, NY, [3]UC Santa Barbara, Santa Barbara, CA

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1893 Improved correspondence between fMRI and EEG estimates of vigilance fluctuations with multi-echo ICA

Sarah Goodale[1], Bohan Jiang[1], Jennifer Evans[2], Jacco de Zwart[3], Pinar Ozbay[3], Dante Picchioni[3], Jeff Duyn[3], Dario Englot[4], Victoria Morgan[4], Catie Chang[1]

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1894 Functional brain mapping of natural stimuli with high-density diffuse optical tomography

Morgan Fogarty[1], Kalyan Tripathy[1], Alexandra Svoboda[2], Mariel Schroeder[3], Sean Rafferty[1], Patricia Mansfield[4], Rachel Ulbrich[4], Madison Booth[1], Edward Richter[1], Christopher Smyser[4], Adam Eggebrecht[4], Joseph Culver[1]

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1895 Trauma alters white matter microstructural organisation in individuals with & without schizophrenia

Laura Costello[1], Giulia Tronchin[1], Laurena Holleran[1], Maria Dauvermann[2], David Mothersill[3], Karolina Rokita[1], Ruan Kane[1], Brian Hallahan[1], Aiden Corvin[4], Derek Morris[1], Declan McKernan[1], John Kelly[1], Colm McDonald[1], Gary Donohoe[1], Dara Cannon[1]

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1897 Fractal-Based Analysis of BOLD-signal during Naturalistic Viewing Conditions

Olivia Campbell[1], Alexander Weber[1], Tamara Vanderwal[1]

[1]University of British Columbia, Vancouver, British Columbia

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1898 Dyslexia specific and experience effects on brain connectivity of poor and typical readers

Sarah Di Pietro[1,2], David Willinger[1,2], Nada Frei[1,2], Chiara Schneider[1], Christina Lutz[1,2], Seline Coraj[1,2], Philipp Stämpfli[1], Silvia Brem[1,2]

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1899 Neural correlates of letter-speech sound learning in school children

Nada Frei[1,2], Gorka Fraga-González[1], Patrick Haller[1,3], Christina Lutz[1,2], Seline Coraj[1,2], David Willinger[1,2], Rebecca Eva Hefti[1], Silvia Brem[1,2]

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1900 Modeling and verification of brain network based on timed automata in autism spectrum disorder

Wenwen zhuang[1], Jing Cong[1], Hesong Wang[2], Tao Zhang[1]

[1]School of science, Xihua University, Chengdu, China, Chengdu, Sichuan, [2]Nanfang Hospital, Southern Medical University, Guangzhou, China, Guangdong, Guangzhou

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1901 Contributions of global measures to the genetic architecture of cortical surface area and thickness

Carolina Makowski[1], Hao Wang[1], Yuqi Qiu[1], Dennis van der Meer[2], Oleksandr Frei[2], Jingjing Zou[1], Peter Visscher[3], Jian Yang[4], Chi-Hua Chen[1]

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1902 Functional brain network for perisaccadic visual processing

Amirhossein Ghaderi[1], Matthias Niemeier[2], John Crawford[1]

[1]York University, Toronto, Ontario, [2]University of Toronto, Toronto, CA-ON

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1903 Automatic Limbic Segmentation using Deep Learning and Noise Intensity Augmentation

Douglas Greve[1], Benjamin Billot[2], Bruce Fischl[3], Adrian Dalca[3], Juan Iglesias[4], Jean Augustinack[5]

[1]Athinoula A. Martinos Center for Biomedical Imaging, Somerville, MA, [2]University College London, London, England, [3]Massachusetts General Hospital, Boston, MA, [4]University College, London, England, [5]Martinos Center for Biomedical Imaging, Boston, MA

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1904 Prediction of Postural Anticipation and Recovery in Human Based on Age

Elnaz Torabinejad[1,2], Laurence Lai[3,2], Kesaan Kandasamy[3,2], Nancy St-Onge[4,2], Nizar Bouguila[5,2], Habib Benali[1,2], Karen Li[3,2]

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1905 Neural decoding of emotional prosody predicts social communication abilities in children

Simon Leipold[1], Daniel Abrams[1], Shelby Karraker[1], Vinod Menon[1]

[1]Stanford University, Stanford, CA

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1906 The gradient model of cortical organization in decisions about 'empathy for pain'

Karin Labek[1], Roberto Viviani[1,2]

[1]Institute of Psychology, University of Innsbruck, [2]Dept. of Psychiatry and Psychotherapy III, University of Ulm

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1907 Myelin-weighted connectome in Parkinson's disease

Tommy Boshkovski[1], Julien Cohen-Adad[1,2,3], Bratislav Misic[4], Jean-Christophe Corvol[5], Marie Vidailhet[5], Stéphane Lehéricy[5], Matteo Mancini[6,7,1], Nikola Stikov[1,8]

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1908 Alcohol Drinking is linked to Dynamic State Transitions of Functional Network Connectivity

Victor Vergara[1], Harm Jan van der Horn[2], Vince Calhoun[3]

[1]Tri-institutional Center for Translational Research (TReNDS), Atlanta, GA, [2]UMCG, Groningen, Groningen, [3]GSU/GATech/Emory, Atlanta, GA

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1909 Early structural asymmetry in the central sulcus is associated with handedness in infant baboons

Siham Bouziane[1], Kep Kee Loh[1,2,3], Yannick Becker[1,2], Solene Brunschvig[1], Amelie Picchiottino[1], Julien Sein[4], Olivier Coulon[4,2], Lionel Velly[4], Luc Renaud[4], Adrien Meguerditchian[1,2,5]

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1910 Transcranial static magnetic field stimulation modulates corticostriatal activity

Jaime Caballero-Insaurriaga[1,2], Jose Angel Pineda-Pardo[1], Guglielmo Foffani[1,3]

[1]Centre for Integrative Neuroscience A.C. (HM CINAC), Móstoles, Madrid, [2]Universidad Politecnica de Madrid, Madrid, Spain, [3]Hospital Nacional de Paraplejicos, Toledo, Spain

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1911 Using customized NIRS-EEG to study infant functional connectivity during sleep

Louisa Gossé[1], Frank Wiesemann[2], Clare Elwell[3], Emily Jones[1]

[1]Centre for Brain & Cognitive Development, Birkbeck, University of London, London, Greater London, [2]Procter & Gamble, Schwalbach am Taunus, Hessen, [3]Department of Medical Physics and Biomedical Engineering, University College London, London, Greater London

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1912 Using diffusional kurtosis imaging to capture white matter tissue complexity in aging

Hiba Taha[1,2], Jordan Chad[2,3], J. Jean Chen[2,3]

[1]Department of Human Biology, University of Toronto, Toronto, Canada, [2]Rotman Research Institute, Baycrest, Toronto, Canada, [3]Department of Medical Biophysics, University of Toronto, Toronto, Canada

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1913 Relevance of lipid levels for differences in cortical structure and cognition of the aging brain

Julia Stefanik[1], Nora Bittner[1,2], Alfons Schnitzler[3], Svenja Caspers[1,2,4]

[1]Institute for Anatomy I, Medical Faculty & University Hospital Düsseldorf, Heinrich Heine University, Düsseldorf, Germany, [2]Institute of Neuroscience and Medicine (INM-1), Research Center Juelich, Juelich, Germany, [3]Institute of Clinical Neuroscience and Medical Psychology, Heinrich Heine University, Düsseldorf, Germany, [4]JARA-BRAIN, Jülich-Aachen Research Alliance, Juelich, Germany

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1914 Measuring Time-varying Connectivity using Tapered Windowed Phase Synchronization

Hamed Honari[1], Martin Lindquist[2]

[1]Johns Hopkins University, Baltimore, MD, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

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1915 Neural Mechanisms of Eye-Gaze Perception in Children as a function of Autism Trait

Shadi Bagherzadeh-Azbari[1], Changsong Zhou[2], Gilbert Ka Bo Lau[2], Andrea Hildebrandt[3], Werner Sommer[4], Ming Ann Lui[5]

[1]Humboldt-Universität Zu Berlin, Berlin, Deutschland, [2]Hong Kong Baptist University, Kowloon, Hong Kong, [3]University of Oldenburg, Oldenburg, Germany, [4]Humboldt-Universität Zu Berlin, Berlin, Germany, [5]Hong Kong Baptist University, Kowloon, Kowloon

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1916 Impact of Polygenic Risk Score on Normative Models of Hippocampal Volumes

Mohammed Janahi[1], Leon Aksman[2], Jonathan Schott[3], Andre Altmann[4]

[1]University College London, London, United Kingdom, [2]University of Southern California, Los Angeles, CA, [3]University College London, London, London, [4]UCL, London, United Kingdom

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1917 Modulation of alpha-band oscillations indexes automatic attentional capture by emotional distractors

Lydia Arana[1], María Melcón[1], Dominique Kessel[1], Sandra Hoyos[2], Jacobo Albert[1], Luis Carretié[1], Almudena Capilla[1]

[1]Universidad Autónoma de Madrid, Madrid, Spain, [2]Universidad Católica del Uruguay, Montevideo, Uruguay

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1918 Mapping the natural frequencies of the human brain

Almudena Capilla[1], Marta García-Huéscar[1], Lydia Arana[1], María Melcón[1], Abel Cano[2], Pablo Campo[1]

[1]Universidad Autónoma de Madrid, Madrid, Spain, [2]Universidad de Granada, Granada, Spain

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1919 Bipolar disorder alter topology and synchronizability of functional brain network

Fatemeh Akrami[1], Amir Hossein Ghaderi[2]

[1]Iran University of Medical Sciences, Calgary, AK, [2]University of Calgary, Calgary , Alberta

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1923 Age-dependent contribution of domain-general networks to semantic cognition

Sandra Martin[1], Dorothee Saur[2], Gesa Hartwigsen[1]

[1]Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Saxony, [2]University of Leipzig Medical Center, Leipzig, Saxony

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1924 Open-Source Model Viability in Estimating Biological Brain Age in Major Depressive Disorder

Claire Punturieri[1], Jennifer Evans[1], Courtney Burton[1], Carlos Zarate[1]

[1]NIMH, Bethesda, MD

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1925 Pipeline for processing EEG data acquired during block-design simultaneous EEG-fMRI-ASL study

Balu Krishnan[1], Wanyong Shin[1], Ajay Nemani[1], Mark Lowe[1]

[1]Cleveland Clinic, Cleveland, OH

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1926 FMRI Decoding with Few Labeled Examples

Myriam Bontonou[1], Vincent Gripon[1], Nicolas Farrugia[1]

[1]IMT Atlantique, Plouzané, Bretagne

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1927 Connectome Reconfigurations during Jazz Music Improvisation

Victor Vergara[1], Martin Norgaard[2], Robyn Miller[3], Vince Calhoun[4]

[1]Tri-institutional Center for Translational Research (TReNDS), Atlanta, GA, [2]Stanford University, Stanford, CA, [3]Tri-institutional Center for Translational Research in Neuroimaging and Data Science (TReNDS), Atlanta, GA, [4]GSU/GATech/Emory, Atlanta, GA

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1928 Multimodal analysis of autism related inter-individual variation of gray and white matter morphology

Ting Mei[1], Alberto Llera[1], Natalie Forde[1], Dorothea Floris[1], Iva Ilioska[1], Sarah Durston[2], Carolin Moessnang[3], Tobias Banaschewski[4], Rosemary Holt[5], Simon Baron-Cohen[5], Annika Rausch[1], Eva Loth[6], Flavio Dell'Acqua[6], Tony Charman[7], Declan Murphy[6], Christine Ecker[8], Christian Beckmann[1], Jan Buitelaar[1], - the EU-AIMS LEAP group[9]

[1]Donders Institute for Brain, Cognition and Behaviour, Nijmegen, Netherlands, [2]Brain Center Rudolf Magnus, Utrecht, Netherlands, [3]Department of Psychiatry and Psychotherapy, Central Institute of Mental Health, Mannheim, Germany, [4]Department of Child and Adolescent Psychiatry, Central Institute of Mental Health, Mannheim, Germany, [5]Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, [6]Forensic and Neurodevelopmental Sciences, King's College London, London, United Kingdom, [7]Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, [8]Department of Child and Adolescent Psychiatry, University Hospital, Goethe University, Frankfurt am Main, Germany, [9]-, London, United Kingdom

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1929 A fronto-parietal network supports task familiarization

Jiwon Yeon[1], Dobromir Rahnev[1]

[1]Georgia Institute of Technology, Atlanta, GA

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1930 Resting EEG effective connectivity at the sources in developmental Dysphonetic Dyslexia

Jorge Bosch[1], Katia Girini[2], Rolando Biscay[3], Pedro Valdés-Sosa[4], Alan Evans[5], Giuseppe Chiarenza[2]

[1]McGill Centre for Integrative Neuroscience, Montreal Neurological Institute, Montreal, Quebec, [2]Centro Internazionale dei disturbi di apprendimento, attenzione e iperattività, (CIDAAI) Milano 201, Milano, Milano, [3]Centro de Investigación en Matemáticas. A.C., Jalisco S/N, Guanajuato, 36023, México, Guanajuato, Guanajuato, [4]University of Electronic Science and Technology of China, Chengdu, Sichuan, [5]Montreal Neurological Institute, McGill University, Montreal, Quebec

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1931 Development of the visual pathways mediates development of electrophysiology in visual cortex

Sendy Caffarra[1], Sung Jun Joo[2], David Bloom[3], John Kruper[3], Ariel Rokem[3], Jason Yeatman[4]

[1]Stanford University School of Medicine, Stanford, CA, [2]Pusan National University, Department of Psychology, Busan, Busan, [3]University of Washington, Seattle, WA, [4]Stanford University, Stanford, CA

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1932 Shared responses and individual differences in fMRI during movie-viewing

Xuan Li[1,2], Kaustubh R. Patil[1,2], Sridharan Devarajan[3], Simon Eickhoff[1,2], Susanne Weis[1,2]

[1]Institute of Systems Neuroscience, Heinrich Heine University Düsseldorf, Düsseldorf, Germany, [2]Institute of Neuroscience and Medicine (INM-7: Brain and Behaviour), Research Centre Jülich, Jülich, Germany, [3]Centre for Neuroscience, Indian Institute of Science, Bangalore, India

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1933 Time-Varying Temporal Functional Modes: A Novel Model to Probe Network Reconfigurations in fMRI

Tamara de Kloe[1,2], Zahra Fazal[1], Nils Kohn[1,2], Maarten Mennes[1], David Norris[1,3], Ravi Menon[4], Christian Beckmann[1,2,5], Alberto Llera[1,2]

[1]Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, the Netherlands, [2]Department of Cognitive Neuroscience, Radboud University Medical Centre, Nijmegen, Netherlands, [3]Erwin L. Hahn Institute for Magnetic Resonance Imaging, Essen, Germany, [4]Centre for Functional and Metabolic Mapping, Robarts Research Institute, Western University, London, Ontario, Canada, [5]Wellcome Centre for Integrative Neuroimaging, FMRIB Building, Nuffield Department of Clinical Neurosciences, University of Oxford, Oxford, United Kingdom

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1934 Self-identification & self-location brain networks: A lesion network mapping analysis

Sophie Betka[1], Julien Haemmerli[2], Hyeong-Dong park[1], Giannina Rita Iannotti[2], Eva Blondiaux Garcia Fuente[1], Pavo Operic[1], Sixto Alcoba Banqueri[1], Bruno Herbelin[3], Christoph Michel[4], Karl Schaller[2], Olaf Blanke[1]

[1]EPFL, Geneva, [2]HUG, Geneva, [3]EPFL, Geneva, Geneva, [4]UNIGE, Geneva

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1937 AFIDs: a standardized framework for evaluating anatomical correspondence between primate brains

Borna Mahmoudian[1], Nikoloz Sirmpilatze[2,3], Mohamad Abbass[4], Sarah Allarakhia[1], Greydon Gilmore[5], Geetika Gupta[6], Katja Heuer[7,8], P. Christiaan Klink[9], Roberto Toro[10], Jonathan Lau[1]

[1]Schulich School of Medicine and Dentistry, University of Western Ontario, London, Ontario, Canada, [2]Functional Imaging Laboratory, German Primate Center - Leibniz Institute for Primate Research, Göttingen, Lower Saxony, Germany, [3]Georg-August University of Göttingen, Göttingen, Lower Saxony, Germany, [4]Department of Clinical Neurological Sciences, London Health Sciences Centre, Western University, London, Ontario, Canada, [5]School of Biomedical Engineering, University Hospital, London, Ontario, Canada, [6]Brain and Mind Institute, University of Western Ontario, London, Ontario, Canada, [7]Center for research and interdisciplinarity (CRI), Paris, Île-de-France, France, [8]Department of Neuropsychology Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Saxony, Germany, [9]Department of Vision and Cognition, Netherlands Institute for Neuroscience, Amsterdam, North Holland, The Netherlands, [10]Neuroscience Department, Institut Pasteur, Paris, Île-de-France, France

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1938 Mapping columnar axis of motion in human area MT using SI-SS-VASO at 7T

Alessandra Pizzuti[1], Amaia Benitez-Andonegui[1], Laurentius Huber[1], Omer Faruk Gulban[1], Sriranga Kashyap[1], Luca Vizioli[2], Steen Moeller[2], Mehmet Akcakaya[2], Kamil Ugurbil[2], Judith Peters[1], Rainer Goebel[1]

[1]Maastricht University, Maastricht, Netherlands, [2]CMRR, University of Minnesota, Minneapolis , MN

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1940 Pulvinar plasticity gates inhibitory processing in visual cortex for perceptual learning

Joseph Ziminski[1], Polytimi Frangou[1], Vasilis Karlaftis[1], Zoe Kourtzi[1]

[1]University of Cambridge, Cambridge, Cambridgeshire

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1942 Probing Cerebello-cerebral Resting State Functional Connectivity in Mild Cognitive Impairment

Sheeba Anteraper[1], Nikita Joshi[2], Alex Belden[1], Xavier Guell[3], Farhan Abdul Vaheed[4], Raihan Abdul Vaheed[5], Yoon Ji Lee[1], Psyche Loui[1], Maiya Geddes[1]

[1]Northeastern University, Boston, MA, [2]Boston University, Boston, MA, [3]Massachusetts General Hospital and Harvard Medical School, Boston, MA, [4]McMaster University, Hamilton, Ontario, [5]University of Waterloo, Waterloo, Ontario

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1943 Individual variability of microstructural-functional coupling in the human cortex

Raihaan Patel[1], Gabriel Desrosiers-Gregoire[1], Gabriel Devenyi[1], Mallar Chakravarty[1]

[1]Cerebral Imaging Centre, Douglas Mental Health University Institute, Verdun, QC

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1944 Multi-modal Latent Variable Model could help individuals stratification: application to HBN cohort

Corentin Ambroise[1], Angeline Mihailov[1], Vincent Frouin[1], Antoine Grigis[1]

[1]Neurospin, Institut Joliot, CEA, Université Paris-Saclay, Gif-sur-Yvette, Île-de-France

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1945 The effect of 6 months in space on brain macro- and microstructure

Steven Jillings[1], Angelique Van Ombergen[1], Elena Tomilovskaya[2], Alena Rumshiskaya[3], Liudmila Litvinova[3], Inna Nosikova[2], Ekaterina Pechenkova[4], Ilya Rukavishnikov[2], Stefan Sunaert[5], Paul Parizel[6], Valentin Sinitsyn[7], Victor Petrovichev[3], Steven Laureys[8], Peter zu Eulenburg[9], Jan Sijbers[1], Floris Wuyts[1], Ben Jeurissen[1]

[1]University of Antwerp, Antwerp, Belgium, [2]Russian Academy of Sciences, Moscow, Russian Federation, [3]National Medical Research Treatment and Rehabilitation Centre, Moscow, Russian Federation, [4]National Research University Higher School of Economics, Moscow, Russian Federation, [5]KU Leuven, Leuven, Belgium, [6]Royal Perth Hospital and University of Western Australia Medical School, Perth, Australia, [7]Lomonosov Moscow State University, Moscow, Russian Federation, [8]University of Liège, Liège, Belgium, [9]Ludwig-Maximilians-University, Munich, Germany

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1946 The effects of real-time fMRI neurofeedback on supraliminal and subliminal response inhibition

Jeanette Popovova[1,2], Reza Mazloum[1,2,3], Gianluca Macauda[1], Philipp Stämpfli[4], Sascha Frühholz[5], Patrik Vuilleumier[6], Frank Scharnowski[7], Lars Michels[1]

[1]Department of Neuroradiology, University Hospital of Zurich, Zurich, Switzerland, [2]Neuroscience Center Zurich, University of Zurich and ETH Zurich, Zurich, Switzerland, [3]Department of Health Sciences and Technology, ETH Zurich, Zurich, Switzerland, [4]Department of Psychiatry, Psychiatric Hospital, University of Zurich, Zurich, Switzerland, [5]Department of Psychology, University of Zurich, Zurich, Switzerland, [6]Department of Neurosciences and Clinic of Neurology, University Medical Center, Geneva, Switzerland, [7]Department of Basic Psychological Research and Research Methods, University of Vienna, Vienna, Austria

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1947 Cortical hypometabolism lateralizes seizure focus in temporal lobe epilepsy with non-lesional MRI

Julia Simon[1], Robert Knowlton[2], Yan Li[2], Wolfgang Muhlhofer[3], Hosung Kim[1]

[1]Mark and Mary Stevens Neuroimaging and Informatics Institute, Keck School of Medicine, USC, Los Angeles, CA, [2]Neurology and UCSF Weill Institute for Neurosciences, San Francisco, CA, [3]University of Alabama at Birmingham Epilepsy Center, Birmingham, AL

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1948 Linking structural and functional brain organisation with behaviour in autism

Natalie Forde[1], Alberto Llera[2], Ting Mei[3], Dorothea Floris[4], Flavio Dell'Acqua[5], Christine Ecker[6], Jan Buitelaar[7], Christian Beckmann[8]

[1]Donders, Nijmegen, Netherlands, [2]Radboud University, Nijmegen, Gelderland, [3]Donders Institute, Nijmegen, Gederland, [4]Donders Institute for Brain, Cognition and Behaviour, Nijmegen, Gederland, [5]King's College London, London, na, [6]Institue of Psychiatry, Frankfurt, Frankfurt, [7]Donders Institute, Nijmegen, Nijmegen, [8]Radboud University, Nijmegen, Nijmegen

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1950 Resting state system segregation alters heart rate variability relationship with cognition

Babu Adhimoolam[1], Tania Kong[1], Kathy Low[1], Bradley Sutton[1], Gabriele Gratton[1], Monica Fabiani[1]

[1]University of Illinois at Urbana-Champaign, Urbana, IL

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1951 Obesity genetic risk is related to weight gain via structural changes in the frontoparietal network

Filip Morys[1], Eric Yu[2], Ziv Gan-Or[1], Alain Dagher[1]

[1]Montreal Neurological Institute and Hospital, McGill University, Montreal, Quebec, [2]Department of Human Genetics, McGill University, Montreal, Quebec

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1952 A cortical network for transsaccadic perception of object orientation vs. shape: An fMRI paradigm

Bianca Baltaretu[1], W. Stevens[1], Erez Freud[1], J. Douglas Crawford[1]

[1]York University, Toronto, Ontario

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1953 Trajectories of Network Routing and Diffusion Efficiencies during early brain developmen

Sheng-Che Hung[1], Weiyan Yin[1], Tengfei Li[1], Li Wang[2], Weili Lin[3]

[1]University of North Carolina Chapel Hill, Chapel Hill, NC, [2]University of North Carolina, Chapel Hill, NC, [3]Department of Radiology and BRIC, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA, Chapel Hill, NC

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1954 Sparse co-occurrences of fMRI and intracranial EEG functional connectivity states in resting state

Parham Mostame[1], Jonathan Wirsich[2], Thomas Alderson[1], Ben Ridley[3], Serge Vulliémoz[2], Maxime Guye[3], Louis Lemieux[4], Sepideh Sadaghiani[1]

[1]University of Illinois at Urbana-Champaign, Champaign, IL, [2]University of Geneva, Geneva, Switzerland, [3]Aix-Marseille University, Marseille, France, [4]University College London (UCL), London, United Kingdom

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1956 Modelling signal propagation through the human connectome at high spatiotemporal resolution

Caio Seguin[1], Maciej Jedynak[2], Olivier David[2], Olaf Sporns[3], Andrew Zalesky[4]

[1]University of Melbourne, Melbourne, VIC, [2]Université Grenoble Alpes, Grenoble, Grenoble, [3]Indiana University - Bloomington, Bloomington, IN, [4]The University of Melbourne, Melbourne, Victoria

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1957 Data Sharing Policies in Neuroimaging Data Repositories

Anita Jwa[1], Russell Poldrack[1]

[1]Stanford University, Stanford, CA

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1958 Regional White Matter Hyperintensity Burden, Functional Connectivity, and Cognition in Older Adults

Abhishek Jaywant[1], Katharine Dunlop[1], Lindsay Victoria[1], Lauren Oberlin[1], Charles Lynch[1], Matteo Respino[1], Amy Kuceyeski[2], Matthew Scult[1], Matthew Hoptman[3], Conor Liston[1], Michael O'Dell[1], George Alexopoulos[1], Faith Gunning[1]

[1]Weill Cornell Medicine, New York, NY, [2]Weill Cornell Medicine, Ithaca, NY, [3]Nathan Kline Institute for Psychiatric Research, Orangeburg, NY

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1959 Excitation-Inhibition Balance in the Infant Brain

Guoshi Li[1], Hoyt Patrick Taylor[1], Ye Wu[1], Sahar Ahmad[1], Zhengwang Wu[1], Li Wang[1], Gang Li[1], Weili Lin[1], Pew-Thian Yap[1]

[1]Department of Radiology and BRIC, University of North Carolina at Chapel Hill, Chapel Hill, USA

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1960 Active Subspace Learning of Brain Imaging Data

Ishaan Batta[1], Anees Abrol[2], Vince Calhoun[3]
[1]*Georgia Institute of Technology, Atlanta, GA,* [2]*Center for Translational Research in Neuroimaging and Data Science (TReNDS): : GSU/GAtech/Emory, Atlanta, GA,* [3]*Center for Translational Research in Neuroimaging and Data Science (TReNDS): GSU/GAtech/Emory, Atlanta, GA*

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1961 Ex-vivo whole human brain diffusion MRI at 550 micron resolution with a 3T Connectom scanner

Gabriel Ramos Llorden[1], Chiara Maffei[1], Qiyuan Tian[1], Berkin Bilgic[1], Jean Augustinack[1], Thomas Witzel[2], Alina Scholz[3], Boris Keil[3], Anastasia Yendiki[1], Susie Huang[1]
[1]*Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Harvard Medical School, Boston, MA,* [2]*Q Bio Inc.,, San Carlos, CA,* [3]*Institute for Medical Physics and Radiation Protection, TH Mittelhessen - Univ. of Applied Sciences, Giessen, Hesse*

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1962 Exploring the Role of Event Boundaries in Idiosyncratic Memory Formation

Clara Sava-Segal[1], Emily Finn[1]
[1]*Dartmouth College, Hanover, NH*

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1963 Precise cartography of individual brains with a common functional basis

Ma Feilong[1], James Haxby[1]
[1]*Dartmouth College, Hanover, NH*

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1964 Monash rsfPET-fMRI and Monash visfPET-fMRI: Two publicly available simultaneous MR-PET datasets

Sharna Jamadar[1], Phillip Ward[1], Thomas Close[1], Shenjun Zhong[1], Alex Fornito[1], Zhaolin Chen[1], N. Jon Shah[2], Gary Egan[1]
[1]*Monash University, Melbourne, VIC,* [2]*Forschungszentrum Juelich GmbH, Juelich, Juelich*

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1965 Low Infant Functional Connectome-based Identification Accuracy Across the First Year of Life

Alexander Dufford[1], Stephanie Noble[1], Siyuan Gao[2], Dustin Scheinost[1]
[1]*Yale University, New Haven, CT,* [2]*Yale School of Medicine, New Haven, CT*

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1966 Normative Modeling of a Brain Using Generalized Additive Models for Location Scale and Shape

Richard Dinga[1], Charlotte Fraza[2], Andre Marquand[3]
[1]*Donders, Amsterdam, NA,* [2]*Radboud University, utrecht, utrecht,* [3]*Radboud University, Nijmegen, Gelderland*

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1967 Abnormality Segmentation in Brain MRI: U-Net Is Not Shift-Invariant

Mostafa Sharifzadeh[1,2], Habib Benali[1,2], Hassan Rivaz[1,2]
[1]*Concordia University, Montreal, Canada,* [2]*PERFORM Centre, Montreal, Canada*

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1968 Benchmarking of 3D Atlas Creation Tools from 2D Label Maps in BigBrain

Mona Omidyeganeh[1,2], Manuela Kunz[3], Philippe Massicotte[3], Louis Borgeat[3], Paule Toussaint[1], Sherri Jones[1], Ayca Altinkaya[1], Abbas Sadikot[1], Jens Pruessner[4], Jonathan Boisvert[5], Alan Evans[1]
[1]*Montreal Neurological Institute, McGill University, Montreal, Quebec,* [2]*National Research Council of Canada, Ottawa, Canada,* [3]*National Research Council of Canada, Ottawa, Ontario,* [4]*University of Constance, Konstanz, Konstanz,* [5]*National Research Council of Canada, Ottawa, Onitario*

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1969 Dataset shift when defining biomarkers with machine learning

Jérôme Dockès[1], Jean-Baptiste Poline[1], Gaël Varoquaux[2]
[1]*McGill University, Montreal, Quebec,* [2]*INRIA, Paris, Paris*

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1971 Contributions of Prefrontal White Matter Integrity to Cognitive Performance in Healthy Aging

Wojciech Pietrasik[1], Fraser Olsen[1], Scott Travis[1], Nikolai Malykhin[1]
[1]*University of Alberta, Edmonton, Alberta*

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1972 Age-related differences in structural and functional networks involved in positive and negative empathy

Maryam Ziaei[1], Lena Oestreich[1], David Reutens[1], Natalie Ebner[2]
[1]*University of Queensland, Brisbane, QLD,* [2]*University of Florida, Gainseville, FL*

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1973 Modeling Face Recognition in the Predictive Coding Framework: Combining a computational model & fMRI

Nestor Zaragoza-Jimenez[1], Hauke Niehaus[2], Christoph Vogelbacher[1], Gabriele Ende[3], Inge Kamp-Becker[4], Dominik Endres[2], Andreas Jansen[1]
[1]*Laboratory for Multimodal Neuroimaging, Department of Psychiatry, University of Marburg, Marburg, Hessen,* [2]*Theoretical Cognitive Science Lab, Department of Psychology, University of Marburg,, Marburg, Hessen,* [3]*Department of Neuroimaging, Central Institute of Mental Health (CIMH), University of Heidelberg, Mannheim, Baden-Württemberg,* [4]*Center for Mind, Brain, and Behavior (CMBB), University of Marburg and Justus Liebig University Gies, Marburg, Hessen*

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1974 N170 Response to Fearful Faces Predicts Therapy Outcomes in Posttraumatic Stress Disorder

Richard Bryant[1], Mayuresh Korgaonkar[2], Thomas Williamson[3]
[1]*University of New South Wales, Kensington, NSW,* [2]*Westmead Institute for Medical Research, Westmead, NSW,* [3]*University of New South Wales, Sydney, NSW*

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1975 Querying the NeuroQuery dataset with a brain image

Jérôme Dockès[1], Romain Primet[2], Jean-Baptiste Poline[1], Gaël Varoquaux[3]
[1]*McGill University, Montreal, Quebec,* [2]*INRIA, Saclay, Saclay,* [3]*INRIA, Paris, Paris*

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1976 Is it the left one or the right one? Investigating hemispheric asymmetries via classification

Patrick Friedrich[1], Kaustubh R. Patil[1,2], Lisa Mochalski[1,2], Simon Eickhoff[1,2], Susanne Weis[1,2]

[1]Institute of Neuroscience and Medicine (INM-7: Brain and Behavior), Jülich, Germany, [2]Heinrich-Heine-Universität, Düsseldorf, Germany

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1977 Classifying Obsessive-Compulsive Disorder using diffusion MRI – multi-site machine learning study

Bogyeom Kim[1], Kakyeong Kim[2], Sooyoung Kim[2], Ji Hwan Park[3], Shinjae Yoo[3], Odile van den Heuvel[4], Dan Stein[5], Rachel Marsh[6], Blair Simpson[6], Fabrizio Piras[7], Jiook Cha[1,2,8], ENIGMA-OCD working group[4]

[1]Department of Psychology, College of Social Sciences, Seoul National University, Seoul, Korea, Republic of, [2]Department of Brain and Cognitive Sciences, College of Natural Sciences, Seoul National University, Seoul, Korea, Republic of, [3]Computational Science Initiative, Brookhaven National Laboratory, Upton, NY, [4]Amsterdam UMC, Vrije Universiteit Amsterdam, Amsterdam, The Netherlands, [5]Department of Psychiatry and Neuroscience Institute, University of Cape Town, Cape Town, South Africa, [6]Columbia University Medical College, New York, NY, [7]Department of Clinical and Behavioral Neurology, IRCCS Santa Lucia Foundation, Rome, Italy, [8]AI Institute, Seoul National University, Seoul, Korea, Republic of

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1978 Multivariate characterization of cortical thickness covariance patterns in autism spectrum disorder

Justine Ziolkowski[1,2], Raihaan Patel[2,3], Saashi Bedford[2,4], Stephanie Tullo[1,2], Evdokia Anagnostou[5], Jason Lerch[6,7], Margot Taylor[7], Mallar Chakravarty[1,2,8]

[1]Integrated Program in Neuroscience, McGill University, Montreal, Canada, [2]Douglas Mental Health University Institute, Montreal, Canada, [3]Department of Biological and Biomedical Engineering, McGill University, Montreal, Canada, [4]University of Cambridge, Cambridge, United Kingdom, [5]Holland Bloorview Kids Rehabilitation Hospital, Toronto, Canada, [6]University of Oxford, Oxford, United Kingdom, [7]The Hospital for Sick Children, Toronto, Canada, [8]Department of Psychiatry, McGill University, Montreal, Canada

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1980 Increased functional activity and altered effective connectivity during sensory learning in autism

Roshini Randeniya[1], Iris Vilares[2], Jason Mattingley[1], Marta Garrido[3]

[1]The University of Queensland, St Lucia, Australia, [2]University of Minnesota, Minneapolis, MN, [3]University of Melbourne, Melbourne, Victoria

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1983 Latent variable modeling in neurocognitive and psychological attributes and brain network

Soyong Eom[1], Bumhee Park[2]

[1]Yonsei university College of Medicine, Seoul, Seoul, [2]Department of Biomedical Informatics and Office of Biostatistics, Ajou University School of Medicine, Suwon, Suwon

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1984 Comparing 7T fMRI protocols for imaging subcortical regions as expectations guide visual priorities

Kelly Garner[1], Christopher Nolan[2], Markus Barth[3], Saskia Bollmann[4], Ole Jensen[5], Marta Garrido[6]

[1]Queensland Brain Institute, St Lucia, QLD, [2]UNSW, Sydney, NSW, [3]The University of Queensland, Brisbane, Queensland, [4]Centre for Advanced Imaging, The University of Queensland, Brisbane, QLD, [5]University of Birmingham, Birmingham, West Midlands, [6]University of Melbourne, Melbourne, Victoria

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1985 Heatmaps of Functional Connectivity Correlates of 4-year Working Memory from Newborns to 4-year-olds

Haitao Chen[1,2], Emil Cornea[3], John Gilmore[3], Wei Gao[1,2]

[1]Department of Biomedical Sciences and Imaging, Cedars-Sinai Medical Center, Los Angeles, USA, [2]Department of Bioengineering, University of California at Los Angeles, Los Angeles, USA, [3]Departments of Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, USA

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1986 Age differences in white matter: 3-way multimodal fusion analysis with machine learning applications

Andrea Mendez[1], Michelle Hefner[1], Vince Calhoun[2], Edward McAuley[3], Art Kramer[4], Agnieszka Burzynska[1]

[1]Colorado State University, Fort Collins, CO, [2]GSU/GATech/Emory, Atlanta, GA, [3]University of Illinois at Urbana-Champaign, Champaign, IL, [4]Northeastern University, Boston, MA

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1987 Linking genetics to Alzheimer's disease via human brain mapping

Mansu Kim[1], Ruiming Wu[1], Xiaohui Yao[1], Andrew Saykin[2], Jason Moore[1], Li Shen[1]

[1]University of Pennsylvania, Philadelphia, PA, [2]Indiana University, Indianapolis, IN

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1988 QTE Imaging Reveals White Matter FA is Dominated by Fiber Orientation, not Microscopic Anisotropy

Elizabeth Rizor[1], Margaret Hayes[1], Scott Grafton[1]

[1]University of California, Santa Barbara, Santa Barbara, CA

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1989 Altered functional and structural network connectivity in children with infantile hydrocephalus

Ramina Adam[1,2], Daamoon Ghahari[1], Roy Eagleson[1,3], Sandrine de Ribaupierre[1,2,3]

[1]Brain and Mind Institute, Western University, London, Ontario, Canada, [2]Clinical Neurological Sciences, Western University, London, Ontario, Canada, [3]Electrical and Computer Engineering, Western University, London, Ontario, Canada

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1990 Reliability of Spatially Constrained Independent Component Analysis Across Pipelines in Children

Thomas DeRamus[1], Armin Iraji[2], Zening Fu[2], Yuhui Du[3], Julia Stephen[4], Tony Wilson[5], Yu-Ping Wang[6], Vince Calhoun[2]

[1]TReNDS Center, Atlanta, GA, [2]TReNDs Center, Atlanta, GA, [3]Shanxi University, Taiyuan, China, [4]The Mind Research Network, Albuquerque, NM, [5]Boys Town National Research Hospital, Boys Town, NE, [6]Tulane University, New Orleans, LA

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1991 Structure-function substrates of spatial memory in medial and lateral temporal cortices

Shahin Tavakol[1], Qiongling Li[1], Jessica Royer[1], Reinder Vos de Wael[1], Sara Larivière[1], Alex Lowe[1], Casey Paquola[1], Elizabeth Jefferies[2], Tom Hartley[2], Andrea Bernasconi[3], Neda Bernasconi[3], Jonathan Smallwood[2], Lorenzo Caciagli[4], Boris Bernhardt[1]

[1]Multimodal Imaging and Connectome Analysis Laboratory, McConnell Brain Imaging Centre, MNI, Montreal, Montreal, Quebec, [2]University of York, York, UK, [3]Neuroimaging of Epilepsy Laboratory, McConnell Brain Imaging Center, MNI, Montreal, Quebec, Montreal, Quebec, [4]Department of Bioengineering, University of Pennsylvania, Philadelphia, USA, Philadelphia, PA

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1995 Microstructure Gradients Reflect Distributed and Integrative Functional Connectivity Patterns

Yezhou Wang[1], Jessica Royer[1], Bo-yong Park[1], Reinder Vos de Wael[1], Sara Larivière[1], Shahin Tavakol[1], Raul Rodríguez-Cruces[1], Casey Paquola[1], Sofie Valk[2], Jonathan Smallwood[3], Alan Evans[1], Boris Bernhardt[1]

[1]Montreal Neurological Institute and Hospital, McGill University, Montreal, Quebec, [2]FZ Jülich, Jülich, Germany, [3]Queen's University, Kingston, Ontario

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1996 Disrupted Functional Connectivity in Adolescent Social Phobia with and without ADHD Comorbidity

Brian Kim[1], Xin Niu[1], Fengqing Zhang[1]

[1]Drexel University, Philadelphia, PA

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1998 Multi-Site Prediction of Sex from Functional Connectomes

Matthew Rosenblatt[1], Qinghao Liang[1], Sarah Lichenstein[1], Bader Chaarani[2], Hugh Garavan[2], Sarah Yip[1], Dustin Scheinost[1]

[1]Yale University, New Haven, CT, [2]University of Vermont College of Medicine, Burlington, VT

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1999 Sex Difference in the Resting-state Functional Connectivity depend on Brain Types

Megumi Matsuda[1], Izumi Matsudaira[1], Yasuko Tatewaki[1], Hiroki Kataoka[1], Hikaru Takeuchi[1], Yasuyuki Taki[1]

[1]Tohoku University, Sendai, Japan

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2000 Cortical gyrification differences between early- and late-onset obsessive–compulsive disorder

Inkyung Park[1], Minah Kim[2,3], Sanghoon Oh[4], Silvia Kyungjin Lho[2,3], Sun-Young Moon[2,3]

[1]Department of Brain and Cognitive Sciences, Seoul National University College of Natural Sciences, Seoul, Korea, Republic of, [2]Department of Psychiatry, Seoul National University College of Medicine, Seoul, Korea, Republic of, [3]Department of Neuropsychiatry, Seoul National University Hospital,, Seoul, Korea, Republic of, [4]Department of Psychiatry, Uijeongbu Eulji Medical Center, Eulji University, Gyeonggi, Korea, Republic of

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2001 Decreased Structural and Functional Brain Network Controllability in Temporal Lobe Epilepsy

Andrew Janson[1], Graham Johnson[2], Baxter Rodgers[1], Bennett Landman[2], Dario Englot[1], Victoria Morgan[1]

[1]Vanderbilt University Medical Center, Nashville, TN, [2]Vanderbilt University, Nashville, TN

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2002 White matter microstructure and myelin concentration in white matter hyperintensities

Jennifer Ferris[1], brian greeley[1], Irene Vavasour[1], Sarah Kraeutner[1], Shie Rinat[1], Sandra Black[2], Lara Boyd[1]

[1]The University of British Columbia, Vancouver, British Columbia, [2]Sunnybrook Research Institute, Toronto, Ontario

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2004 Connectivity profiles of numeral-preferring areas in the inferior temporal cortex

Benjamin Conrad[1], Gavin Price[1]

[1]Vanderbilt University, Nashville, TN

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2005 Cerebral small vessel disease in people who are homeless or precariously housed

Melissa Woodward[1], Andrea Jones[1], Wayne Su[1], Lily Zhou[1], William Panenka[1], Yomna Hadid[1], Emmanuel Jackson[1], Jacob Stubbs[1], Kristina Gicas[2], Allen Thornton[3], Talia Vertinsky[1], Manraj Heran[1], Ghadeer Al-Momen[1], Alasdair Barr[1], William MacEwan[1], Alexander Rauscher[1], Donna Lang[1], Thalia Field[1], William Honer[1]

[1]University of British Columbia, Vancouver, BC, [2]York University, Toronto, ON, [3]Simon Fraser University, Burnaby, BC

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2006 Mapping Cognitive Declines Using Neuroimaging Biomarkers and Machine Learning

Seyed Hani Hojjati[1], Abbas Babajani-Feremi[2]

[1]Weill Cornell Medicine, New York, NY, [2]University of Texas at Austin, Austin, TX

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2007 Surface-based Morphometry shows reduced Cortical Thickness in Boys with Duchenne Muscular Dystrophy

Nitish Patel[1], Ashish Sahib[1], Joana Loureiro[1], David Lee[1], Katherine Narr[1,2], Roger Woods[1,2], Eileen Fowler[3], Sandra Loo[2], Shantanu Joshi[1]

[1]Ahmanson-Lovelace Brain Mapping Center, Department of Neurology, University of California, Los Angeles, CA, [2]Department of Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, CA, [3]UCLA/OIC Center for Cerebral Palsy, University of California, Los Angeles, CA

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2009 Multimodal predictors for the performance during frontal alpha asymmetry EEG neurofeedback training

Yutong Li[1,2], Linling Li[1,2], Gan Huang[1,2], Li Zhang[1,2], Zhen Liang[1,2], Zhiguo Zhang[1,2,3,4]

[1]School of Biomedical Engineering, Health Science Center, Shenzhen University, ShenZhen,China, [2]Guangdong Provincial Key Laboratory of Biomedical Measurements and Ultrasound Imaging, ShenZhen, China, [3]Peng Cheng Laboratory, ShenZhen, China, [4]Marshall Laboratory of Biomedical Engineering, ShenZhen, China

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2010 Apparent aging of the human brain and body systems: Disease, mortality and lifestyle factors

Ye Tian[1], Vanessa Cropley[2], Andrew Zalesky[1]

[1]The University of Melbourne, Melbourne, Victoria, [2]Melbourne Neuropsychiatry Centre, University of Melbourne, Melbourne, Victoria

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2011 Flexible Reconfigurations of Brain Networks in Decisions with Predefined vs. Self-Generated Option

Qianying Wu[1], Zhihao Zhang[2], Andrew Kayser[3], Ming Hsu[2]

[1]California Institute of Technology, Pasadena, CA, [2]University of California, Berkeley, Berkeley, CA, [3]University of California, San Francisco, San Francisco, CA

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2012 The EEG for perspective-taking in sentence comprehension is correlated with autistic tendency

Shingo Tokimoto[1], Naoko Tokimoto[2]

[1]Mejiro University, Tokyo, Japan, [2]Shobi University, Kawagoe, Saitama

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2013 Effects of fMRI temporal resolution on brain effective connectivity measured by Granger causality

Xinxin Zhang[1], Meng Liang[1]

[1]School of Medical Imaging,Tianjin Medical University, Tianjin, China

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2015 The Altered EEG for both Frequency and Time Domains in Patients with Chronic Low Back Pain

Hsin-Yuan Wu[1], Wen-Chein Chen[2], Poyu Chen[1]

[1]Depart. of Occupational Therapy and Graduate Institute of Behavioral Sciences, Chang Gung University, Taoyuan, Taiwan, [2]Depart. of Orthopedic Surgery, Chang Gung Memorial Hospital, Taoyuan, Taiwan

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2016 Cross-Hemispheric Connectivity and Its Impact Cognition in Healthy and MCI-AD Older Adults

Mariam Hovhannisyan[1], Olga Lucia Gamboa[1], Daisy Banta[1], Simon Davis[1]

[1]Duke University, Durham, NC

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2017 Preprocessing subcortical structures surface model in SWI for Atypical Parkinsonian Syndroms

Yun Soo Kim[1], Lee Jae Hyeok[1], Jin Kyu Gahm[1]

[1]Pusan National University, Pusan, Korea, Republic of

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2019 Construction of high resolution multimodal templates of the older adult brain

Yingjuan Wu[1], Mohammad Rakeen Niaz[1], ABDUR RAQUIB RIDWAN[1], Xiaoxiao Qi[1], David Bennett[2], Konstantinos Arfanakis[1,2]

[1]Illinois Institute of Technology, Chicago, IL, [2]Rush University Medical Center, Chicago, IL

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2020 Characterising Neural Heterogeneity in Psychiatric Disorders using Normative Models

Ashlea Segal[1], Linden Parkes[2], Kevin Aquino[3], Seyed Mostafa Kia[4], Thomas Wolfers[5], Barbara Franke[6], Martine Hoogman[6], Christian Beckmann[4], Lars Westlye[7], Ole Andreassen[7], Andrew Zalesky[8], Ben Harrison[8], Christopher Davey[8], Carles Soriano-Mas[9], Jeggan Tiego[1], Murat Yücel[1], Leah Braganza[1], Chao Suo[1], Michael Berk[10], Sue Cotton[11], Mark Bellgrove[1], Andre Marquand[4], Alex Fornito[1]

[1]Turner Institute for Brain and Mental Health, Monash University, Melbourne, Australia, [2]University of Pennsylvania, Philadelphia, USA, [3]University of Sydney, Sydney, Australia, [4]Radboud University, Nijmegen, Netherlands, [5]NORMENT/Donders, Oslo/Nijmegen, Germany, [6]Radboud University Medical Centre, Nijmegen, Netherlands, [7]NORMENT, Oslo, Norway, [8]The University of Melbourne, Melbourne, Australia, [9]Department of Psychiatry, Bellvitge Biomedical Research Institute-IDIBELL, Barcelona, Spain, [10]Deakin University, Melbourne, Australia, [11]Orygen, Melbourne, Australia

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2021 Limbic Effective Connectivity to the Cortex under Psilocybin

Devon Stoliker[1,2], Gary Egan[2], Franz Vollenweider[3], Katrin Preller[3], Adeel Razi[2,4,1]

[1]Turner Institute for Brain and Mental Health, Monash University, Melbourne, Victoria, Australia, [2]Monash Biomedical Imaging, Monash University, Clayton, Victoria, Australia, [3]Department of Psychiatry, Psychotherapy & Psychosomatics, University Hospital for Psychiatry, Zurich, Zurich, Switzerland, [4]The Wellcome Centre for Human Neuroimaging, UCL, London, United Kingdom, United Kingdom

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2022 Examining the Neurobiological Validity of a Novel VR Assessment Tool for Early Detection of AD

Hannah Fingerhut[1], Emily Schultz[1], Elveda Gozdas[1], Lauren Dacorro[1], Jessica Welch[1], Jacob Shaw[1], Shayan Nazarifar[2], Tanya Watarastaporn[1], Stephanie Chao[1], Hadi Hosseini[1]

[1]Stanford University, Stanford, CA, [2]UC Davis, Davis, CA

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2023 Why you may not need a respiration belt to correct breathing induced artifacts in fMRI data

Paul Bloom[1], Ryan Lim[2], Anna Vannucci[1], Lei Ai[3], Nim Tottenham[1], Michael Milham[3], Alexandre Franco[3]

[1]Columbia University, New York, NY, [2]Nathan S. Kline Institute for Psychiatric Research, Orangeburg, NY, [3]Child Mind Institute, New York, NY

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2024 Know pain, know gain: Brain representations of sensory pleasure and pain

Soo Ahn Lee[1,2], Jisoo Han[1,3], Jae-Joong Lee[1,2], Myunghwan Choi[1,3], Choong-Wan Woo[1,2]

[1]Center for Neuroscience Imaging Research, Suwon, Korea, Republic of, [2]Sungkyunkwan University, Suwon, Korea, Republic of, [3]Seoul National University, Seoul, Korea, Republic of

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2026 Socialness is in the eye of the beholder: Evidence from brain activity and behavior

Rekha Varrier[1], Emily Finn[2]

[1]Dartmouth College, Lebanon, NH, [2]Dartmouth College, Hanover, NH

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2027 Mapping Thalamocortical Functional Connectivity with Large-scale Brain Networks in Psychosis

Yoo Bin Kwak[1], Kang Ik Cho[2], Wu Jeong Hwang[1], Ahra Kim[1], Junhee Lee[3,4], Tae Young Lee[5], Minah Kim[3,4], Jun Soo Kwon[1,3,4,6]

[1]Department of Brain and Cognitive Sciences, College of Natural Sciences, Seoul National University, Seoul, Korea, Republic of, [2]Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Boston, MA, [3]Department of Psychiatry, Seoul National University College of Medicine, Seoul, Korea, Republic of, [4]Department of Neuropsychiatry, Seoul National University Hospital, Seoul, Korea, Republic of, [5]Department of Neuropsychiatry, Pusan National University Yangsan Hospital, Yangsan, Korea, Republic of, [6]Institute of Human Behavioral Medicine, SNU-MRC, Seoul, Korea, Republic of

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2028 A morphological landmark of face processing in the human brain

Ben Parker[1], Willa Voorhies[1], Jesse Gomez[2], JIAHUI GUO[3], Nicholas Furl[4], Lúcia Garrido[5], Brad Duchaine[3], Kevin Weiner[1]

[1]University of California, Berkeley, Berkeley, CA, [2]Princeton University, Princeton, NJ, [3]Dartmouth College, Hanover, NH, [4]Royal Holloway, University of London, Egham, Surrey, [5]City, University of London, London

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2029 A Dynamic Functional Connectivity Marker for Rumination

Jungwoo Kim[1,2], Jesscia Andrews-Hanna[3], Byeol Kim[1,2], Hongji Kim[1,2], Elizabeth Losin[4], Hedwig Eisenbarth[5], Tor Wager[6], Choong-Wan Woo[1,2]

[1]Center for Neuroscience Imaging Research, Suwon, Korea, Republic of, [2]Sungkyunkwan University, Suwon, Korea, Republic of, [3]University of Arizona, Tucson, AZ, USA, [4]University of Miami, Coral Gables, FL, USA, [5]Victoria University of Wellington, Wellington, New Zealand, [6]Dartmouth College, Hanover, NH, USA

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2030 Voxel-level connectivity changes also influence graph theory measures of brain networks

Wenjing Luo[1], Abigail Greene[1], Todd Constable[1]

[1]Yale University, New Haven, CT

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2031 Temporal Dynamics of Cerebral Blood Flow during the First Year after Traumatic Brain Injury

Naomi Gaggi[1,2], John Whyte[3], Ze Wang[4], Julia Torrellas[1], Sudipto Dolui[5], Junghoon Kim[1]

[1]CUNY School of Medicine, New York, New York, USA, [2]Graduate Center CUNY, New York, NY, USA, [3]Moss Rehabilitation Research Institute, Elkins Park, PA, USA, [4]University of Maryland Baltimore, Baltimore, MD, USA, [5]University of Pennsylvania Radiology Department, Philadelphia , PA, USA

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2032 Altered white matter connections and microstructure of the striatum in obsessive-compulsive disorder

Hyungyou Park[1], Taekwan Kim[1], Yoo Bin Kwak[1], Minah Kim[2,3], Jun Soo Kwon[1,2,3]

[1]Department of Brain and Cognitive Sciences, Seoul National University College of Natural Sciences, Seoul, Korea, Republic of, [2]Department of Neuropsychiatry, Seoul National University Hospital, Seoul, Korea, Republic of, [3]Department of Psychiatry, Seoul National University College of Medicine, Seoul, Korea, Republic of

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2033 Simultaneously acquired EEG and fMRI BOLD signals reflecting Spatiotemporal features of Mindfulness

JaeEon Kang[1], Changha Lee[1], Yeji Kim[1], Jong-Hwan Lee[1]

[1]Department of Brain and Cognitive Engineering, Korea University, Seoul, Seoul

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2034 Decoding Pain from EEG based on Multi-Source Domain Adaptation Neural Network Autoencoder

Jiahao Wang[1,2], Zhiguo Zhang[1,2]

[1]School of Biomedical Engineering, Health Science Center, Shenzhen University, Shenzhen 518060, China, [2]Guangdong Provincial Key Laboratory of Biomedical Measurements and Ultrasound Imaging, Shenzhen University, Shenzhen, China

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2035 Neural arbitrator dysfunction forming excessive habitual actions in obsessive-compulsive disorder

Taekwan Kim[1], Minah Kim[2,3], Jun Soo Kwon[1,2,3,4]

[1]Department of Brain and Cognitive Sciences, Seoul National University College of Natural Sciences, Seoul, Republic of Korea, [2]Department of Psychiatry, Seoul National University College of Medicine, Seoul, Republic of Korea, [3]Department of Neuropsychiatry, Seoul National University Hospital, Seoul, Republic of Korea, [4]Institute of Human Behavioral Medicine, SNU-MRC, Seoul, Republic of Korea

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2036 Effect of 2D and 3D perspective on spatial cognition representation

Xiaoyu Zhang[1,2], Sunao Iwaki[1,2]

[1]Natl Inst Adv Indust Sci & Tech (AIST), Tsukuba, Japan, [2]University of Tsukuba, Tsukuba, Japan

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2037 Structural volume changes induced by gait training in patients with Parkinson's disease

Eunkyung Kim[1], Heejae Kim[2], Seo Jung Yun[2], Min-Gu Kang[2], Hyun Iee Lee[2], Byung-Mo Oh[2], Han Gil Seo[2]

[1]Seoul National University Hospital, Seoul, Korea, Republic of, [2]Seoul National University Hospital, Seoul

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2038 Sex Difference in Simulated tDCS Current Across Young, Middle-Aged and Older Adults

SAGARIKA BHATTACHARJEE[1], Rajan Kashyap[1], Alicia Goodwill[1], Beth O'Brien[2], Brenda Rapp[3], Kenchi Oishi[3], John Desmond[3], Annabel Chen[1]

[1]Nanyang Technological University, Singapore, Singapore, [2]National Institute of Education, Singapore, Singapore, [3]The Johns Hopkins University, Baltimore, MD

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2039 Effects of SENSE1 Image Reconstruction on tSNR and Explainable Variance in Multi-channel fMRI

An Vu[1,2], Matteo Visconti di Oleggio Castello[3], Katherine Rankin[1], Jack Gallant[3]

[1]University of California, San Francisco, San Francisco, CA, [2]San Francisco Veteran Affairs Health Care System, San Francisco, CA, [3]University of California, Berkeley, Berkeley, CA

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2040 Review: Quantitative EEG in Disorders of Consciousness

Betty Wutzl[1], Stefan Golaszewski[2], Kenji Leibnitz[3], Alexander Kunz[2], Stefan Leis[2], Kerstin Schwenker[2], Aljoscha Thomschewski[2], Eugen Trinka[2]

[1]Osaka University, Suita, Osaka, [2]Paracelsus Medical University, Salzburg, Salzburg, [3]National Institute of Information and Communications Technology, Suita, Osaka

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2041 Voxel-based morphometry reveals cerebellar brain volume differences associated with subclinical ADHD

HARUKA ASAOKA[1], Yasuko Tatewaki[1], Izumi Matsudaira[2], Hikaru Takeuchi[3], Ryuta Kawashima[4], Yasuyuki Taki[5]

[1]Tohoku University, Miyagi, sendai, [2]Smart-Aging Research Center, Tohoku University, Sendai, Japan, [3]Tohoku University, Sendai, Miygai, [4]Tohoku University, Sendai, Miyagi, [5]Tohoku University, Send, Miyagi

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2042 Assessing functional connectivity beyond Pearson's correlation

Hecheng Jin[1], Julian Ramirez[1], Ronak Mehta[2], Joshua Vogelstein[2], Michael Milham[1], Ting Xu[1]

[1]Child Mind Institute, New York, NY, [2]Johns Hopkins University, Baltimore, MD

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2044 A data-driven approach to fine-grained segmentation of human brain white matter bundles

David Bloom[1], John Kruper[1], Jason Yeatman[2], Ariel Rokem[1]

[1]University of Washington, Seattle, WA, [2]Stanford University, Stanford, CA

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2045 Challenges and impacts of spatial smoothing on high-resolution structural connectomes

Sina Mansour L.[1], Vanessa Cropley[2], Andrew Zalesky[1]

[1]The University of Melbourne, Melbourne, Victoria, [2]Melbourne Neuropsychiatry Centre, University of Melbourne, Melbourne, Victoria

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2046 Cortical plasticity for auditory spatial processing in patients with unilateral hearing loss

Lee seul Shim[1], Ja Hee Kim[1,2], Hyo-Jeong Lee[1,2]

[1]Laboratory of Brain & cognitive Sciences for convergence medicine, Hallym University College of Medi, Anyang, Korea, Republic of, [2]Department of Otorhinolaryngology-Head and Neck Surgery, Hallym University College of Medicine, Chuncheon, Korea, Republic of

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2047 Characterizing EEG Correlates of Viewer Engagement in Flyer Theater

Meng-Yu Yao[1], Shang-You Yang[1], Yi-Hsiang Lien[1], Yuan-Pin Lin[1]

[1]National Sun Yat-sen University, Kaohsiung, Taiwan

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2048 Layer dependent facilitation of neural activity during rhythmic movement in the human M1

Yinghua Yu[1,2], Ikuhiro Kida[1,2], Nobuhiro Hagura[1,2]

[1]Center for Information and Neural Networks, NICT, Osaka, Japan, [2]Graduate School of Frontier Biosciences, Osaka University, Osaka, Japan

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2049 Eyes open and closed resting-state conditions: a comparison of DMN functional connectivity pattern

Chenyang Jiang[1], Tao Zhang[2]

[1]University of Electronic Science and Technology of China, Chengdu, Sichuan, [2]Xihua University, Chengdu, Sichuan

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2050 Exploring Spatio-Spectral EEG Correlates of Emotional Responses during Piano Playing

Jachin Pousson[1], Yi-Wei Shen[2], Yuan-Pin Lin[2], Aleksandras Voicikas[3], Inga Griškova-Bulanova[3], Valdis Bernhofs[1], Lana Burmistrova[1], Evaldas Pipinis[3]

[1]Jāzeps Vītols Latvian Academy of Music, Riga, Latvia, [2]National Sun Yat-sen University, Kaohsiung, Taiwan, [3]Vilnius University, Vilnius, Lithuania

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2051 Effective Connectivity in Patients with and without Mild Cognitive Impairment in Parkinson's Disease

Hannah Cummins[1], Ian Harding[1], Adeel Razi[1]

[1]Monash University, Clayton, Victoria

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2052 Auditory training enhances frontoparietal attention network to improve speech in noise performance i

Lee seul Shim[1], Ja Hee Kim[1,2], Hyo-Jeong Lee[1,2]

[1]Laboratory of Brain & cognitive Sciences for convergence medicine, Hallym University College of Medi, Anyang, Korea, Republic of, [2]Department of Otorhinolaryngology-Head and Neck Surgery, Hallym University College of Medicine, Chuncheon, Korea, Republic of

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2053 Examining the structural correlates of amyloid-beta in people with dementia with Lewy bodies

Sanuji Gajamange[1], Nawaf Yassi[1], KaiSin Chin[1], Patricia Desmond[2], Victor Villemagne[3], Christopher Rowe[4], Rosie Watson[1]

[1]Walter and Eliza Hall Institute of Medical Research, Melbourne, Victoria, [2]Department of Radiology, Royal Melbourne Hospital, University of Melbourne, Melbourne, Victoria, [3]University of Melbourne, Melbourne, Victoria, [4]Austin Hospital, Melbourne, Victoria

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2054 Effect of Blockade of T-type Calcium Channels on Quasi-periodic Patterns (QPP) in the Brain

Vahid Khalilzad Sharghi[1], Eric Maltbie[2], Wen-Ju Pan[1], Shella Keilholz[1], Gopinath Kaundinya[2]

[1]Emory University/Georgia Institute of Technology, Atlanta, GA, [2]Emory University, Atlanta, GA

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2055 Identifying neural substrates of fluid intelligence in the adolescence brain using brain entropy

Donghui Song[1], Lian-Dong Lin[2], Lei Zhang[1], Ze Wang[1]

[1]University of Maryland School of Medicine, Baltimore, MD, [2]Heilongjiang University, Harbin, Heilongjiang

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2056 The effects of presentation mode and memory load on alpha activity during working memory maintenance

Ya-Ting Chen[1], Bo-Cheng Kuo[1]
[1]*Department of Psychology, National Taiwan University, Taipei, Taiwan*

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2057 Leveling up: How broader levels of inference improve power in functional connectivity

Stephanie Noble[1], Dustin Scheinost[1]
[1]*Yale University, New Haven, CT*

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2058 The Perturbational Complexity Index reliably assesses patients with disorders of consciousness

Gabriel Hassan[1], Erica Varoli[2,3], Simona De Salvo[4], Federica Avorio[2], Nunzio Muscarà[4], Francesco Corallo[4], Angela Comanducci[5], Angelo Quartarone[6], Silvia Marino[4], Lilla Bonanno[4], Vincenzina Lo Re[2], Leonor Josefina Romero-Lauro[2,3], Silvia Casarotto[1,5]
[1]*Dept DIBIC, University of Milan, Milan, Italy,* [2]*IRCCS IsMeTT, Palermo, Italy,* [3]*Dept Psychology, University of Milano-Bicocca, Milan, Italy,* [4]*IRCCS Centro Neurolesi 'Bonino-Pulejo', Messina, Italy,* [5]*IRCCS Fondazione Don Carlo Gnocchi ONLUS, Milan, Italy,* [6]*Dept BIOMORF, University of Messina, Messina, Italy*

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2059 Adaptive neurofeedback stimulation to support smoking cessation

Amelie Haugg[1], Mirjam Habegger[2], Anna Speckert[3], Sarah Meier[4], Ronald Sladky[5], Philipp Stämpfli[6], Cindy Lor[5], Ellen van Maren[7], Apurva Watve[2], Andrei Manoliu[8], Erich Seifritz[8], Matthias Kirschner[9], Marcus Herrdener[8], Boris Quednow[2], Frank Scharnowski[5]
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2060 Functional Connectivity Eigenvector Centrality Dynamics Relate to Amyloid Deposition in Pre-AD

Luigi Lorenzini[1], Silvia Ingala[1], Maarten Slebe[1], Viktor Wottschel[1], Henk Mutsaerts[1,2], Betty Tijms[3], Haller Sven[4,5], Kaj Blennow[6], Giovanni Frisoni[7,8], Gael Chételat[9], Pierre Payoux[10], Lage-Martinez Pablo[11], Waldman Adam[12,13], Joanna Wardlaw[12], Craig Ritchie[12], Juan Domingo Gispert[14,15,16,17], Pieter Jelle Visser[3,18], Philip Scheltens[3], Frederik Baarkhof[1,19], Alle Meije Wink[1]
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2061 Variations in extrastriate body area representational patterns in gender incongruence

Adnan Majid[1], Nicco Reggente[1], Ivanka Savic[2], Jamie Feusner[3]
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2062 Atypical Development of Broca's Area in a Large Family with Inherited Stuttering

Daisy Thompson-Lake[1], Susan Block[2], Samantha Turner[3], Sheena Reilly[3,4], Elaina Kefalianos[3,5], Alexandra Bonthrone[1], Ingrid Scheffer[6,3,7,8], Frederique Liegeois[1], Angela Morgan[3,2,5]
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2064 Comparing acoustic, semantic and neural network models of natural sound representation

Bruno Giordano[1], Michele Esposito[2], Elia Formisano[2]
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2065 Higher prefrontal-parietal entropy is associated with impulsivity and drug use risk in adolescence

Donghui Song[1], Lian-Dong Lin[2], Lei Zhang[1], Ze Wang[1]
[1]*University of Maryland School of Medicine, Baltimore, MD,* [2]*Heilongjiang University, Harbin, Heilongjiang*

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2066 Braph 2.0: A software for the analysis of multilayer brain connectivity with graph theory

Pablo Emiliano Gomez Ruiz[1], Giovanni Volpe[2], Joana Pereira[3], Mite Mijalkov[4], Anna Canal Garcia[4], Yu-Wei Chang[1]

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2067 Multivariate association between neural activation during reward processing and psychopathology

Yara Toenders[1], Saige Rutherford[2], Roselyne Chauvin[3], Andre Marquand[4], Lianne Schmaal[5]

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2068 What our morning coffee tells us about face perception

Andreas Jansen[1], Ina Thome[1]

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2070 Predicting Executive Functioning from Brain Networks: Structure–Function Differences and Age Effects

Marisa Heckner[1,2], Edna Cieslik[1,2], Felix Hoffstaedter[1,2], Simon Eickhoff[1,2], Kaustubh Patil[1,2], Robert Langner[1,2]

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2072 AnonyMi: MRI de-identification with geometrical preservation

Ezequiel Mikulan[1], Simone Russo[1], Flavia Zauli[1], Pergiorgio d'Orio[2], Sara Parmigiani[1], William Knight[3], Silvia Squarza[4], Pierluigi Perri[1], Francesco Cardinale[5], Pietro Avanzini[6], Andrea Pigorini[1]

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2073 Volume deficit in hippocampal CA subfield in subjects with high genetic loading for schizophrenia

Sunah Choi[1], Taekwan Kim[1], Minah Kim[2,3], Jun Soo Kwon[1,2,3]

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2074 Medial prefrontal cortex commonly involved in reading preferences and emotions from others' faces

KUN IL KIM[1], Jinhee Kim[1], Hackjin Kim[1]

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2075 Increased brain-heart coherence and brain connectivity during mindfulness-based stress reduction

Junling GAO[1], Rui Sun[1], Hang Kin Leung[1], Bonnie wai yan Wu[1], Hin Hung Sik[1]

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2076 Automatic selection and deletion of artefactual segments in neonatal EEG

Laura Smets[1,2], Gabriella Tamburro[1], Katrien Jansen[3], Anneleen Dereymaeker[3], Gunnar Naulaers[3], Maarten De Vos[2,3], Silvia Comani[1]

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2077 Spatio-temporal neural pathways in emotions regulated by mindfulness and mind-wandering

Changha Lee[1], JaeEon Kang[1], Yeji Kim[1], Jong-Hwan Lee[1]

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2078 Word Salience during Sentence Reading

Sharmistha Jat[1], Partha Talukdar[1], Tom Mitchell[2]

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2079 Midcingulo-insular connectivity decreases in subjective cognitive decline

Adriana Ruiz-Rizzo[1], Raymond Viviano[2], Jessica Damoiseaux[2]

[1]LMU Munich, Munich, Bavaria, [2]Wayne State University, Detroit, MI

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2080 Harmonic Removal Regression (HarmoRemo): a novel method for removing harmonic components in M/EEG

Mina Jamshidi Idaji[1,2,3], Juanli Zhang[1,4], Arno Villringer[1,5], Vadim Nikulin[1,6]

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2081 Somatotopy of somatosensory working memory during vibro-tactile frequency discrimination

Finn Rabe[1], Sanne Kikkert[2], Nicole Wenderoth[1]

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2082 Network functional connectivity under naturalistic stimulation

Lisa Mochalski[1,2], Patrick Friedrich[1], Kaustubh R. Patil[1,2], Simon Eickhoff[1,2], Susanne Weis[1,2]

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2083 Cortical excitability changes non-linearly in dexmedetomidine sedation

Paolo Cardone[1,2], Olivier Bodart[1,2,3], Murielle Kirsch[4,5], Julien Sanfilippo[4], Alessandra Virgilito[6], Charlotte Martial[1,2], Jessica Simon[7], Sarah Wannez[1], Robert Sanders[8], Steven Laureys[1,2], Vincent Bonhomme[4,5,9], Olivia Gosseries[1,2]

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2084 Temporally Adaptive SourcE Reconstruction (TASER)

Ryan Timms[1], Andrew Quinn[1], Evan Roberts[1], Chetan Gohil[1], Gareth Barnes[2], James Bonaiuto[3], Stephen Smith[1], Matthew Brookes[4], Mark Woolrich[1]

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2085 Linking structural and functional imaging modalities to characterize atypical face processing in ASD

Dorothea Floris[1], Alberto Llera[2], Ting Mei[3], Natalie Forde[4], Carolin Moessnang[5], Emily Jones[6], Luke Mason[7], Rianne Haartsen[7], Christine Ecker[8], Jan Buitelaar[9], Christian Beckmann[10]

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2086 Face Processing Efficiency Is Related to Aberrant Prefrontal Connectivity in Adolescent Depression

David Willinger[1], Iliana Karipidis[2], Carolina Rauch[1], Isabelle Häberling[1], Gregor Berger[1], Susanne Walitza[1], Silvia Brem[3]

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2087 MTE-NODDI made practical with learning-based acquisition and parameter-estimation acceleration

Ting Gong[1], Hongjian He[2], Jianhui Zhong[2,3], Hui Zhang[1]

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2088 MVPA classification of natural sounds in early "visual" cortex of congenitally blind individuals

Petra Vetter[1], Lukasz Bola[2], Lior Reich[3], Matthew Bennett[4], Lars Muckli[5], Amir Amedi[6]

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2089 Post-traumatic complaints and resting-state connectivity in elderly with mild traumatic brain injury

Mayra Bittencourt-Villalpando[1], Harm Jan van der Horn[1], Sebastián Balart-Sánchez[1], Jan-Bernard Marsman[1], Natasha Maurits[1], Joukje van der Naalt[1]

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2090 DMN co-activation in young adults at genetic risk for Alzheimer's disease: an HCP replication study

Lara Mentink[1,2], João Guimarães[2], Emma Sprooten[2], Marcel Olde Rikkert[1,2], Koen Haak[2], Christian Beckmann[2,3]

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2091 Comparing structural covariance regions in humans and chimpanzees

Sam Vickery[1,2], Kaustubh R. Patil[1,2], Robert Dahnke[3], William D. Hopkins[4], Chet C. Sherwood[5], Svenja Caspers[6,7,8], Simon Eickhoff[1,2], Felix Hoffstaedter[1,9]

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2092 Genetic and environmental variants linked with higher segregation of brain networks and cognition

Julia Neitzel[1,2], Rainer Malik[2], Ryan Muetzel[1], Maria Knol[1], Hazel Zonneveld[1], Marios Georgakis[2], Nicolai Franzmeier[2], Anna Rubinski[2], Martin Dichgans[2], Arfan Ikram[1], Meike Vernooij[1], Michael Ewers[2]

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2095 Insular brain-to-brain concordance supports causal patient-clinician facial expression dynamics

Dan-Mikael Ellingsen[1], Andrea Duggento[2], Kylie Isenburg[3], Changjin Jung[4], Jeungchan Lee[5], Jessica Gerber[5], Ishtiaq Mawla[5], Roberta Sclocco[6], Robert Edwards[7], John Kelley[8], Irving Kirsch[9], Ted Kaptchuk[9], Nicola Toschi[2], Vitaly Napadow[6]

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2096 Taste coding in the human insular cortex

du zhang[1], xiaoxiao wang[1], sijia li[1], yanming wang[1], zhoufang jiang[1], Benedictor Alexander Nguchu[1], bensheng qiu[1]

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2097 Transcranial direct current stimulation reverses stroke-induced network alterations in mice

Stefan Blaschke[1,2,3], Susan Vlachakis[1,2], Niklas Pallast[1], Monika Rabenstein[1], Sabine Vay[1], Dirk Wiedermann[2], Gereon Fink[1,3], Mathias Hoehn[4], Markus Aswendt[5,3], Michael Schroeter[5,2,3], Maria Rüger[5,2,3]

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2098 Polygenic Prediction of Subcortical Volumes and Cross-ancestry Validation

Adrian Campos[1], Jill Rabinowitz[2], Neda Jahanshad[3], Paul Thompson[4], Sarah Medland[5], Miguel Renteria[5]

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2099 Shifting gradients of cortical organization mark the transition from childhood to adolescence

HaoMing Dong[1], Daniel Margulies[2], Xi-Nian Zuo[1], Avram Holmes[3]

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2100 Comparison of BOLD and VASO in submillimeter high-resolution fMRI Based on BISEPI at 7T

Guoxiang Liu[1,2], Adnan Shah[1,2], Takashi Ueguchi[1,2], Hideto Kuribayashi[3]

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2101 Alcohol Use Impacts Cortical Reward Network Structure in Bipolar Disorder

Fiona Martyn[1], Genevieve McPhilemy[1], Leila Nabulsi[2], Theophilus Akudjedu[3], Giulia Tronchin[1], James McLoughlin[4], Brian Hallahan[5], Colm McDonald[5], Dara Cannon[1]

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2103 In vivo tractography of the human neonatal reward network and energy homeostasis pathways

Julie Nihouarn Sigurdardottir[1], Jacques-Donald Tournier[1], Maximilian Pietsch[1], Daan Christiaens[1], Lucilio Cordero-Grande[2], Emer Hughes[1], Joseph V. Hajnal[1], David Edwards[1], Lucilla Poston[3], Mary Rutherford[1]

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2105 Modulations of insular oscillations exerted by sustained painful and non-painful thermal stimuli

Giulia Liberati[1], Dounia Mulders[2], Louisien Lebrun[1], Arthur Courtin[1], Susana Ferrao Santos[3], Jose Geraldo Ribeiro Vaz[3], Christian Raftopoulos[3], André Mouraux[1]

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2106 Neural Variability of Crosstalk Effects in Dual-Tasking and Its Modulation by Age

Lya Paas Oliveros[1,2], Aleks Pieczykolan[3,4], Rachel Pläschke[2], Edna Cieslik[2,1], Simon Eickhoff[1,2], Robert Langner[2,1]

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2107 Sex differences in functional brain connectivity over the course of aging in a large cohort

Mite Mijalkov[1], Emiliano Gómez Ruiz[2], Anna Canal Garcia[1], Oveis Jamialahmadi[3], Stefano Romeo[3], Giovanni Volpe[2], Joana Pereira[1,4]

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2111 Sex effects in adolescent longitudinal development of subcortical volumes in two European samples

Lea Backhausen[1,2], Hervé LeMaitre[3], Jonas Granzow[1], Juliane Fröhner[2], Jean-Luc Martinot[4], Michael N. Smolka[2], Nora Vetter[1,2]

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2112 Approaches to the in-utero fMRI denoising in the developing Human Connectome Project (dHCP)

Vyacheslav Karolis[1,2], Lucilio Cordero-Grande[3,4], Sean Fitzgibbon[1], Emer Hughes[4], Anthony Price[4], Ahmed Fetit[5], Seyedeh-Rezvan Farahibozorg[1], Jonathan O'Muircheartaigh[6], Tomoki Arichi[2], Rueckert Daniel[5], David Edwards[2], Joseph V. Hajnal[4], Stephen Smith[1], Eugene Duff[1]

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2113 Functional evidence for adjacent arrangement of domain-general and sensory-biased frontal regions

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2114 EEG slowing and cholinergic system integrity in mild cognitive impairment with Lewy bodies

Julia Schumacher[1], John-Paul Taylor[1], Calum Hamilton[1], Michael Firbank[1], Paul Donaghy[1], Ruth Cromarty[1], Gemma Roberts[1], Nicola Barnett[1], Louise Allan[2], Rory Durcan[1], John O'Brien[3], Alan Thomas[1]

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2115 Efficient validation of dynamical whole-brain models via mathematical optimization algorithms

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2116 Evaluation of surrogate respiration signals derived from ECG acquired during simultaneous EEG-fMRI

Inês Esteves[1], Ana Fouto[1], Amparo Ruiz-Tagle[1], Athanasios Vourvopoulos[1], Marta Xavier[1], Nuno Silva[2], Raquel Gil-Gouveia[3], Agostinho Rosa[1], Patrícia Figueiredo[1]

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2117 Translingual Neural Stimulation induces Resting-State Functional Connectivity Changes in TBI patient

Jiancheng Hou[1], Rosaleena Mohanty[2], Veena Nair[3], Yuri Danilov[4], Kurt Kaczmarek[4], Beth Meyerand[5], Mitchell Tyler[6], Vivek Prabhakaran[3]
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2118 Cerebellar connectivity in male batterers is associated with irrational thoughts about women

Sofia Amaoui[1], Agar Marín-Morales[1,2], Cristina Martín-Pérez[3], Miguel Pérez-García[1,2], Juan Verdejo-Román[3,4]
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2119 TOEM task: Empathy and ToM in face to Intimate Partner Violence (IPV) and unpleasant situations

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2120 TDCS with passive motor mobilisation modulates thalamo-cortical activity during active movement

Davide Aloi[1], Melanie Lafanechere[1], Roya Jalali[2], Davinia Fernández-Espejo[1]
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2121 Lifespan Big Data Normative Modeling of Internalizing Disorders

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2122 Brain structural associations with depression in a large early adolescent sample (the ABCD cohort)

Niamh MacSweeney[1], Xueyi Shen[1], Stella Chan[1], Miruna Barbu[1], Mark Adams[1], Stephen Lawrie[1], Liana Romaniuk[1], Andrew McIntosh[1], Heather Whalley[1]
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2123 Structural Correlates of Language Processing in Primary Progressive Aphasia

Curtiss Chapman[1], Maryna Polyakova[2], Karsten Mueller[2], Janine Diehl-Schmid[3], Markus Otto[4], Adrian Danek[5], Gesa Hartwigsen[6], Matthias Schroeter[7]
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2125 Baselines in computing ERP components for midline and lateral visual attention

Mattia Doro[1], Roberto Dell'Acqua[1], Sabrina Brigadoi[1], Brandi Lee Drisdelle[2], Pierre Jolicoeur[3]
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2126 A browser-based tool for interactive brain data visualization

Seung Hye Park[1], Won Hee Lee[1]
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2127 MEG alpha power decodes creative vs non-creative stories

Clara Rastelli[1], Antonino Greco[1], Christoph Braun[2], Chiara Finocchiaro[1], Nicola De Pisapia[1]
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2128 Long-term spaceflight induces differentially sustainable and reversible functional effects

Steven Jillings[1], Ekaterina Pechenkova[2], Elena Tomilovskaya[3], Alena Rumshiskaya[4], Liudmila Litvinova[4], Inna Nosikova[3], Ilya Rukavishnikov[3], Angelique Van Ombergen[1], Stefan Sunaert[5], Paul Parizel[6], Valentin Sinitsyn[7], Victor Petrovichev[4], Peter zu Eulenburg[8], Ben Jeurissen[1], Jan Sijbers[1], Jitka Annen[9], Steven Laureys[9], Athena Demertzi[9], Floris Wuyts[1]
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2129 Intracortical electrical stimulation assessment during concurrent HD-EEG recording

Sara Parmigiani[1], Simone Russo[1], Ezequiel Mikulan[1], Flavia Zauli[1], Annalisa Rubino[2], Ivana Sartori[2], Pergiorgio d'Orio[2], Anna Cattani[1], Matteo Fecchio[3], Jacopo Favaro[4], Jacopo Lanzone[5], Marcello Massimini[1], Andrea Pigorini[1]

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2130 The Medial Temporal Lobe in Resting-State Networks

Sara Seoane[1], Cristián Modroño[1], José Luis González Mora[1], Niels Janssen[1]

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2131 A sparse connectome spectrum as a canonical basis for brain activity

Joan Rué Queralt[1], Katharina Glomb[2], David Pascucci[3], Sebastien Tourbier[4], Margherita Carboni[5], Serge Vulliémoz[5], Gijs Plomp[6], Patric Hagmann[2]

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2132 Comparison of single- and multi-echo pre-processing strategies for motion correction of rs-fMRI

Mihail Dimitrov[1], Nichol Wong[2], Dafnis Batalle[1], Owen O'Daly[1], Sydney Leaman[1], Lucas Franca[1], Andreia Pereira[1], Hester Velthuis[1], Claire Ellis[1], Francesca Ponteduro[1], Mark Tricklebank[1], Declan Murphy[1], Grainne McAlonan[3], Eileen Daly[1]

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2133 Improving g-ratio mapping by a principled 3-point calibration

Mohammad Ashtarayeh[1], Jan Malte Oeschger[1], Maria Morozova[2,3], Tobias Streubel[1], Sebastian Papazoglou[1], Henriette Rusch[3], Martina Callaghan[4], Mark D Does[5,6,7,8], Markus Morawski[2,3], Nikolaus Weiskopf[2,9], Siawoosh Mohammadi[1,2]

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2134 Harmonizing the variabilities in multi-center imaging study on cerebral small vessel disease

Bonnie Lam[1], Qianyun Chen[1], Lin Shi[1], Weitian Chen[1], Jill Abrigo[1], Vincent Mok[1]

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2135 Is it possible to modulate locus coeruleus activity via volitional control of pupil diameter?

Sarah Meissner[1], Marc Bächinger[1], Adrian Taubner[1], Nicole Wenderoth[1]

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2136 Three Decades of Research on the Neurobiology of Language: A Synthesis of 412 Neuroimaging Studies

Sabrina Turker[1], Gesa Hartwigsen[1], Johanna Stumme[2], Simon Eickhoff[2], Svenja Caspers[2]

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2137 Dissociable patterns of rich and diverse club development in youth

Max Bertolero[1], Adam Pines[1], Bart Larsen[2], Azeez Adebimpe[1], Raquel Gur[1], Ruben Gur[1], Tyler Moore[1], David Roalf[1], Russell Shinohara[1], Danielle Bassett[1], Theodore Satterthwaite[1]

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2139 SANDI-AMICO: an open-source toolbox for fast Soma And Neurite Density Imaging (SANDI) with AMICO

Simona Schiavi[1], Mario Ocampo-Pineda[1], Michele Guerreri[2], Victor Montal[3], Giulia Buizza[4], Lisa Novello[5], Sara Bosticardo[1], Jenna Hanmer[6], Gabriel Ramos-Llordén[7], Chantal Tax[8,9], Andrada Ianus[10], Noam Shemesh[10], Emmanuel Caruyer[11], Alessandro Daducci[1], Marco Palombo[2]

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2140 Gray Matter Changes Associated with Hyperacusis

Punitkumar Makani[1], Marc Thioux[1], Kris Boyen[1], Elouise Koops[1], Sonja Pyott[1], Pim van Dijk[1]

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2141 The Latent Network Geometry of The Brain: Toward Geometrical Markers in Brain Network Science?

Alberto Cacciola[1], Alessandro Muscoloni[2], Vaibhav Narula[2], Salvatore Nigro[3], Emeran Mayer[4], Jennifer Labus[4], Giuseppe Anastasi[5], Aldo Quattrone[6], Liang Zhan[7], Anand Kumar[8], Alex Leow[8], Olusola Ajilore[8], Demetrio Milardi[5], Carlo Cannistraci[2]

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2143 DBS of subthalamic nucleus impairs proactive inhibitory control in Parkinson disease

Fernando Lopez-Sosa[1], Florencia Sanmartino[2,1], Raul Rashid-Lopez[1], Alvaro Cruz-Gomez[1], Elena Lozano-Soto[2,1], Francisco Marin-Laut[3], Jesus Rique[3], Raul Espinosa-Rosso[4], Javier Gonzalez-Rosa[2,1]

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2144 Complex regional pain syndrome: thalamic GMV atrophy and altered rsfMRI connectivity to the ACC

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2145 Olfactory tract diffusion measures of early Parkinson's disease patients using 7T MRI

Margot Heijmans[1], Amée Wolters[1,2], Mark Kuijf[1,2], Yasin Temel[1,3], Stijn Michielse[1]

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2147 Investigating white matter microstructure in adolescent early onset psychosis via ENIGMA consortium

Claudia Barth[1], Sinead Kelly[2], Stener Nerland[3], Tiril Gurholt[4], Clara Alloza[5], Celso Arango[6], Nerisa Banaj[7], Carrie Bearden[8], Michael Berk[9], Hannes Bohman[10], Yann Chye[11], Benedicto Crespo-Facorroa[12], Morgan Hough[13], Neda Jahanshad[14], Anthony James[15], Joost Janssen[5], Cecilie Johannessen[3], Katherine Karlsgodt[16], Peter Kochunov[17], Mathias Lundberg[18], Runar Smelror[1], Spalletta Gianfranco[7], Chao Suo[11], Sophia Thomopoulos[14], Diana Tordesillas-Gutiérrez[19], Kirsten Wedervang-Resell[4], Anne Myhre[20], Ole Andreassen[4], Paul Thompson[14], Ingrid Agartz[1]

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2149 An open MRI dataset for multiscale neuroscience

Jessica Royer[1], Raul Rodríguez-Cruces[2], Shahin Tavakol[3], Sara Larivière[4], Peer Herholz[5], Qiongling Li[6], Reinder Vos de Wael[7], Casey Paquola[8], Oualid Benkarim[4], Bo-yong Park[4], Daniel Margulies[9], Jonathan Smallwood[10], Andrea Bernasconi[11], Neda Bernasconi[4], Birgit Frauscher[5], Boris Bernhardt[4]

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2150 A low-dimensional connectome manifold governs the organization and plasticity of social brain function

Sofie Valk[1], Philipp Kanske[2], Bo-yong Park[3], Seok-Jun Hong[4], Anne Boeckler-Raettig[5], Fynn-Mathis Trautwein[6], Boris Bernhardt[3], Tania Singer[7]

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2151 Neuroimaging-based Prediction of Cognition and Behavior for Mental Disorders and Health

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2152 Structural covariance network changes in the common epilepsies: a worldwide ENIGMA study

Sara Larivière[1], Raul Rodríguez-Cruces[2], Jessica Royer[3], Maria Eugenia Caligiuri[4], ENIGMA Epilepsy Working Group[5], Angelo Labate[6], Antonio Gambardella[7], Luis Concha[8], Sanjay Sisodiya[9], Carrie McDonald[10], Paul Thompson[11], Andrea Bernasconi[12], Neda Bernasconi[12], Boris Bernhardt[12]

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2153 Vision and hearing share a common representation in STS despite the lack of multisensory experience

Francesca Setti[1], Giacomo Handjaras[1], Andrea Leo[1], Matteo Diano[2], Valentina Bruno[2], Carla Tinti[2], Luca Cecchetti[1], Davide Bottari[1], Francesca Garbarini[2], Pietro Pietrini[1], Emiliano Ricciardi[1]

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2156 Evaluation of the validity of ALE meta-analytic contrasts

Vincent Küppers[1], Edna Cieslik[1,2], Adina Wagner[1], Simon Eickhoff[1,2], Robert Langner[1,2], Veronika Müller[1,2]

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2158 Structural and Functional Asymmetries in the Neonatal Cerebral Cortex

Logan Williams[1], Sean Fitzgibbon[2], John Cupitt[3], Ralica Dimitrova[1], Tanya Poppe[1], Jelena Bozek[4], Andreas Schuh[3], Antonios Makropoulos[1], Jonathan O'Muircheartaigh[1], Eugene Duff[2], Joseph V. Hajnal[1], Daniel Rueckert[3,5], Stephen Smith[2], David Edwards[1], Emma Robinson[1]

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2159 Local Alterations in Cortical Hierarchy of TIA Patients with Movement Difficulties

Wei Wei[1], Xiujie Han[2], Yulin Song[2], Smadar Ovadia-Caro[3], Yating Lv[1], Daniel Margulies[4]

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2160 Functional connectivity and glucose metabolism differentially drive learning-induced neuroplasticity

Sebastian Klug[1], Lucas Rischka[1], Godber Godbersen[1], Wolfgang Wadsak[2], Verena Pichler[2], Marcus Hacker[2], Rupert Lanzenberger[1], Andreas Hahn[1]

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2161 EEG functional connectivity features predict the activity of the fMRI default mode network

Marta Xavier[1], Inês Esteves[1], Athanasios Vourvopoulos[1], Ana Fouto[1], Amparo Ruiz-Tagle[1], Raquel Gil-Gouveia[2], Patrícia Figueiredo[1]

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2163 Simultaneous human intracerebral stimulation and HDEEG, ground-truth for source localization methods

Ezequiel Mikulan[1], Simone Russo[1], Sara Parmigiani[1], Simone Sarasso[1], Flavia Zauli[1], Annalisa Rubino[2], Pietro Avanzini[3], Anna Cattani[1], Alberto Sorrentino[4], Steve Gibbs[5], Francesco Cardinale[6], Ivana Sartori[2], Lino Nobili[7], Marcello Massimini[1], Andrea Pigorini[1]

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2164 Population-based sex differences in stroke lesion connectivity

Anna Bonkhoff[1], Martin Bretzner[2], Sungmin Hong[2], Markus Schirmer[2], Anne Giese[3], Christopher Lin[4], Michael Ferguson[4], Alexander Cohen[5], Ona Wu[2], Michael Fox[4], Natalia Rost[2]

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2165 The "Complexome" - a spatiotemporal complexity architecture of spontaneous human brain signals

Stephan Krohn[1], Nina von Schwanenflug[1], Leonhard Waschke[2], Amy Romanello[1], Martin Gell[3], Douglas Garrett[2], Carsten Finke[1]

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2166 Task-specific Interactions of Overlapping Networks Across Key Cognitive Domains

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2167 Transcriptomically-constrained generative models of the human connectome

Stuart Oldham[1], Aurina Arnatkeviciute[1], Kevin Aquino[1], Ben Fulcher[2], Alex Fornito[1]

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2168 3D reconstruction of 20 neurotransmitter receptor atlases from 2D autoradiographs

Thomas Funck[1], Konrad Wagstyl[2], Mona Omidyeganeh[3], Claude Lepage[3], Paule Toussaint[3], Karl Zilles[4], Alexander Thiel[5], Alan Evans[6], Nicola Palomero-Gallagher[7]

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2169 Deviation from Typical Brain Activity during Naturalistic Stimulation Predicts Personality Traits

Lucia Jajcay[1,2,3], David Tomeček[1,3], Renata Androvičová[1], Iveta Fajnerová[1], Filip Děchtěrenko[4], Jan Rydlo[1,5], Jaroslav Tintěra[1,5], Jiří Lukavský[1,4], Jiří Horáček[1], Jaroslav Hlinka[2,1]

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2170 Classification of Patients with Epilepsy and Healthy Subjects Based on Structural MRI

Hasanthika WIjesooriya[1], Yasodha Jayasinghe[2], Wasana Ediri Arachchi[3]

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2171 Effects of a highly challenging balance training in individuals with Parkinson's disease: an RCT

Malin Freidle[1], Hanna Johansson[1], Alexander Lebedev[1], Urban Ekman[1], Ellika Schalling[1], Hanna Steurer[1], Per Svenningson[1], Staffan Holmin[1], Martin Lövdén[2], William Thompson[1], Franziska Albrecht[1], Maria Hagströmer[1], Erika Franzén[1]

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2172 Posterior cortical cognitive deficits are associated with tract alterations in Parkinson's disease

Quentin DEVIGNES[1], Romain Viard[2], Nacim Betrouni[1], Guillaume Carey[1], Grégory Kuchcinski[2], Luc Defebvre[3], Albert Leentjens[4], Renaud Lopes[2], Kathy Dujardin[1]

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2173 Longitudinal Structural Dysfunction Associated to Autistic Behaviors in MECP2 Duplicated Rats

Ming Xu[1], Shile Qi[2], Jiankun Dai[3], Bin Yu[4], Kaiwei zhang[4], zilong qiu[4], Vince Calhoun[5], Zhifeng Liang[6], Jing Sui[7]

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2174 Psycho-socio-economic advantages protect depressed children from aberrant connectivity development

Zhen Yang[1], Alexandre Franco[2], Haochang Shou[3], Benjamin Ely[4], Stanley Colcombe[1], Francisco Castellanos[1], Michael Milham[2], Vilma Gabbay[4]

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2175 Structural networks underlying tremor in Parkinson's disease

Kristína Burdová[1], Lubomír Vojtíšek[2], Marek Baláž[3], Silvia Magnia[4], Shalom Michaeli[4], Martin Bareš[3], Robert Jech[1], Pavel Filip[1,4]

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2176 Impact of Early Resumption of Physical Activity on Cerebral Perfusion after a Pediatric Concussion

Katherine Healey[1,2], Zhuo Fang[3], Andra Smith[3], Roger Zemek[4], Andrée-Anne Ledoux[1,2,5,3]

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2177 Myelination Differences of Stripes in Human V2: Preliminary Evidence from 7 T Quantitative MRI

Daniel Haenelt[1,2], Robert Trampel[1], Shahin Nasr[3,4], Jonathan Polimeni[3,4], Roger Tootell[3,4], Martin Sereno[5], Kerrin Pine[1], Luke Edwards[1], Saskia Helbling[1,6], Nikolaus Weiskopf[1,7]

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2178 Individualized, histology-guided in vivo delineation of thalamic nuclei using track-density imaging

Gianpaolo Basile[1], Salvatore Bertino[1], Giuseppe Anastasi[1], Demetrio Milardi[1], Alberto Cacciola[1]

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2179 Cannabidivarin modulates atypical striatal functional connectivity in autism spectrum disorder

Charlotte Pretzsch[1], Dorothea Floris[2], Bogdan Voinescu[1], Malka Elsahib[1], Maria Mendez[1], Robert Wichers[1], Laura Ajram[1], Glynis Ivin[3], Martin Heasman[3], Elise Pretzsch[4], Steven Williams[1], Declan Murphy[5], Eileen Daly[1], Grainne McAlonan[1]

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2180 ADHD symptoms and brain structure: A case of confounding bias

Lorenza Dall'Aglio[1], Hannah Kim[2], Sander Lamballais[1], Ryan Muetzel[1], Henning Tiemeier[2]

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2181 Subcortical structure areal expansion in the human compared to the chimpanzee and heritability

Nadia Blostein[1], Gabriel Devenyi[2], Sejal Patel[3], Raihaan Patel[2], Stephanie Tullo[4], Eric Plitman[5], Saashi Bedford[6], Chet C. Sherwood[7], William D. Hopkins[8], Jakob Seidlitz[9], Mallar Chakravarty[10]

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2182 Reproducibility of rs-fMRI Functional Connectivity Hemispheric Contrast to Lateralize Language

Manu Krishnamurthy[1], Xiaozhen You[1], Leigh Sepeta[2], William Gaillard[3], Madison Berl[3]

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2183 Random-forest classification of psychogenic non-epileptic seizures and temporal lobe epilepsy

Maria Eugenia Caligiuri[1], Iolanda Martino[2], Roberta Vasta[3], Francesco Fortunato[4], Antonio Gambardella[5], Angelo Labate[2]

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2185 Influence of Structural Connectivity on the Modeling of Resting-State Functional Dynamics

Hernan Hernandez-Larzabal[1], L. Liset Gonzalez-Rodriguez[1], David Araya[2], Nelson Trujillo-Barreto[3], Claudio Román[1], Pamela Guevara[1], Wael El-Deredy[2]

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2186 Impact of analysis decisions on stability of brain-behavior CCAs

Markus Helmer[1], Shaun Warrington[2], Ali-Reza Mohammadi-Nejad[2,3], Jie Lisa Ji[1], Amber Howell[1], Stamatios Sotiropoulos[2,4], Alan Anticevic[1], John Murray[1]

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2187 Imaging the Human Pain Matrix in Experimental Periodontal Pain

Angelika Maurer[1], Damian Verma[2], Annika Reddehase[3], Lukas Scheef[4], Alexander Radbruch[5], Ulrike Attenberger[6], Andreas Jäger[2], Henning Boecker[7]

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2189 Changes in regional white matter volumetry and microstructure during the post-adolescence period

Ami Tsuchida[1,2,3], Alexandre Laurent[1,2,3], Fabrice Crivello[1,2,3], Laurent Petit[1,2,3], Antonietta Pepe[1,2,3], Naka Beguedou[1], Christophe Tzourio[4,1], Bernard Mazoyer[1,2,3,4]

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2190 Generalizing open publishing infrastructure: Experiences with the Journal of Open Source Software

Elizabeth DuPre[1], Jean-Baptiste Poline[1]

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2191 Meta Partial Least Squares for Large Scale Applications in Imaging Genetics

Andre Altmann[1], Neda Jahanshad[2], Paul Thompson[3], Marco Lorenzi[4]

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2192 Network Target Engagement in the Prefrontal Brain explained by Concurrent TMS/fMRI

Martin Tik[1], Michael Woletz[1], Anna-Lisa Schuler[1], Maria Vasileiadi[1], David Linhardt[1], Claus Lamm[2], Christian Windischberger[1]

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2193 Performance Scaling for sMRI Surface Parcellations

Sage Hahn[1], Max Owens[1], Dekang Yuan[1], Anthony Juliano[2], Alexandra Potter[1], Hugh Garavan[3], Nicholas Allgaier[1]

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2194 Multimodal MRI template construction from UK Biobank: Oxford-MM-0

Christoph Arthofer[1], Stephen Smith[1], Mark Jenkinson[1], Jesper Andersson[1], Frederik Lange[1]

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2196 Towards objective scotomata assessment using fMRI-based retinotopic mapping: a connectomic approach

David Linhardt[1], Maximilian Pawloff[2], Michael Woletz[1], Martin Tik[1], Markus Ritter[2], Maria Vasileiadi[1], Ursula Schmidt-Erfurth[2], Christian Windischberger[1]

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2197 Transmodal decoupling of human cortical microstructure and function is under genetic control

Sofie Valk[1], Ting Xu[2], Casey Paquola[3], Bo-yong Park[4], Richard Bethlehem[5], Reinder Vos de Wael[6], B.T. Thomas Yeo[7], Peter Kochunov[8], Şeyma Bayrak[1], Daniel Margulies[9], Jonathan Smallwood[10], Simon Eickhoff[11], Boris Bernhardt[4]

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2198 Neural Basis of Social Approach-Avoidance Decision Making in Depression and Social Anxiety

Alejo Acuña[1], Victoria Gradín[1], Alvaro Cabana[1], Laura Uriarte[1], Sebastián Morales[1], Nara Aguirre[1], Alfonso Perez[1], Margarita García-Fontes[2], Enrique Cuña[2]

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2199 The Differential Roles of Positive and Negative Valence Systems in PTSD Development

Ziv Ben-Zion[1], Ofir Shany[1], Roee Admon[2], Nimrod Jackob Keynan[3], Netanell Avisdris[4], Shira Reznik Balter[5], Arieh Shalev[6], Israel Liberzon[7], Talma Hendler[4]

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2200 High-resolution hippocampal subfield volumes in Multiple Sclerosis

Katherine Koenig[1], Jian Lin[1], Daniel Ontaneda[1], Kedar Mahajan[1], Jenny Feng[1], Stephen Rao[1], Sanghoon Kim[1], Stephen Jones[1], Mark Lowe[2]

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2201 Effect of obesity on arithmetic processing in preteens with high and low math skill

Graciela Alatorre-Cruz[1], Heather Downs[1], Darcy Hagood[1], Seth Sorenson[2], David Williams[2], Linda Larson-Prior[2]

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2202 Neural Circuit Modeling Captures Individual Variation in Functional Dynamics across Human Cortex

Rachel Cooper[1], Murat Demirtas[2], Joshua Burt[1], Amber Howell[1], Lisa Jie Ji[1], Alan Anticevic[1], John Murray[1]

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2203 Reconstructing voice from fMRI patterns using deep neural networks

Charly Lamothe[1], Etienne Thoret[2], Stéphane Ayache[3], Régis Trapeau[4], Bruno Giordano[5], Thierry Artières[6], Pascal Belin[7]

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2206 Cortical vulnerability to neuropathologies predicted by genetic similarity to subcortical modules

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2207 The Effect of Gender Affirming Hormonal Therapy on Cerebrovascular Structure and Function

Samantha Cote[1], Reihaneh Forouhandehpour[1], Etienne Croteau[1], Diane Rottembourg[1], Jean-Francois Lepage[1], Kevin Whittingstall[1]

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2208 A multi modal approach for diagnosis of cognitive impairment

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2209 Cortical remodeling across the lifespan reveals structural vulnerability to neurodegeneration

Camilla Cividini[1,2], Federica Agosta[1,2,3], Silvia Basaia[1], Edoardo Gioele Spinelli[1,2], Veronica Castelnovo[1,2], Michela Leocadi[1,2], Davide Calderaro[1], Maria Antonietta Magno[1], Elisa Canu[1], Massimo Filippi[1,2,3,4,5]

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2210 Detecting imaging biomarkers for Alzheimer's disease via interpretable graph convolutional network

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2212 Cortical morphology in autism: Findings from an adaptive approach to gyrification indexing

Alisa Zoltowski[1], Ilwoo Lyu[1], Michelle Failla[2], Lisa Mash[3], Kacie Dunham[1], Jacob Feldman[1], Tiffany Woynaroski[4], Mark Wallace[4], Laura Barquero[1], Tin Nguyen[1], Laurie Cutting[1], Hakmook Kang[4], Bennett Landman[1], Carissa Cascio[4]

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2213 Spontaneous Brain Activity is associated with SANS-based Negative Symptom Domains in Schizophrenia

Bingchen Gao[1], Bhim Adhikari[2], Eun-jin Cheon[3,1], Aysenil Belger[4], Steven Potkin[5,6], Juan Bustillo[7], Daniel Mathalon[8], Judith Ford[8], Kelvin Lim[9,10], Bryon Mueller[11], Adrian Preda[6], Gregory Strauss[12], Anthony Ahmed[13], Paul Thompson[14], Neda Jahanshad[14], Peter Kochunov[15], Vince Calhoun[16], Jessica A. Turner[17], Theo van Erp[1,18]

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2214 Structural covariance in the sub-acute and chronic stages after pediatric traumatic brain injury

Carola Tuerk[1], Fanny Dégeilh[2], Cathy Catroppa[3,4], Vicki Anderson[3,4], Miriam Beauchamp[1,5]

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2215 Benchmarking CNV prediction from rs-fMRI connectivity

Annabelle Harvey[1,2], Clara Moreau[3], Sebastian Urchs[2,4], Kuldeep Kumar[1], Guillaume Huguet[1], Elise Douard[1], Hanad Sharmarke[2], Pierre Orban[5,6], Charles-Olivier Martin[1], Nadine Younis[1], Petra Tamer[1], Jean-Louis Martineau[1], Ana Isabel Silva[7,8], Jeremy Hall[9,7], Marianne van den Bree[10,7], Michael Owen[10,7], David Linden[7,8], Sarah Lippé[1], Carrie Bearden[11], Guillaume Dumas[1], Sebastien Jacquemont[1], Pierre Bellec[2]

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2216 Predicting Gaze Position with Deep Learning of Electroencephalography Data

Martyna Plomecka[1], Ard Kastrati[2], Roger Wattenhofer[2], Nicolas Langer[1]

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2218 Expertise During The Visual Analysis of Palaeolithic Abstract Engravings: an fMRI Study

Mathilde Salagnon[1], Sandrine Cremona[1], Francesco d'Errico[2], Emmanuel Mellet[1]

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2219 Characterization of relationship between MR microstructural metrics and memory in older subjects

Scott Peltier[1], Michelle Karker[1], Jon-Fredrik Nielsen[1], Navid Seraji-Bozorgzad[1], Henry Paulson[1], Bruno Giordani[1], Benjamin Hampstead[1]

[1]University of Michigan, Ann Arbor, MI

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2220 Cerebral blood flow in schizophrenia-spectrum disorders: a systematic review of MRI studies

Delphine Raucher-Chéné[1], Olivier Percie du Sert[1], Claudine Gauthier[2,3], Mallar Chakravarty[1], Martin Lepage[1]

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2221 Stimulus-specific biases in population receptive field mapping

Michael Woletz[1], David Linhardt[1], Martin Tik[1], Allan Hummer[1], Christian Windischberger[1]

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2222 Expanding the Texture Toolkit for Atlas-free Segmentation of Brain MRI

Henry Dieckhaus[1], Rozanna Meijboom[2], Yair Mina[3], Adam Waldman[2], Prasanna Parvathaneni[4], Govind Nair[1]

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2223 Motor cerebro-cerebellar network breakdown among different subtypes of Parkinson's disease

Silvia Basaia[1], Federica Agosta[1], Alessandro Francia[1], Camilla Cividini[2], Tanja Stojkovic6[3], Iva Stankovic[3], Rosita De Micco[4], Luigi Albano[5], elisabetta sarasso[1], Andrea Gardoni[6], Noemi piramide[7], Vladana Markovic[3], Elka Stefanova[3], Vladimir S. Kostic[3], Massimo Filippi[8]

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2224 The Courtois project on neuronal modelling - 2021 data release

Julie Boyle[1], Basile Pinsard[1], Emilie Dessureault[1], François Lespinasse[2], Francois Paugam[2], Pravish Sainath[2], Valentina Borghesani[3], Elizabeth DuPre[4], Eva Alonso Ortiz[5], Jonathan Armoza[6], Francois Nadeau[2], Samie-Jade Allard Allard[2], Amal Boukhdhir[2], Agah Karakuzu[7], Jeni Chen[2], Arnaud Boré[1], André Cyr[1], Paul-Henri Mignot[1], Yann Harel[2], Sylvie Belleville[2], Simona Brambati[2], Julien Cohen-Adad[7], Adrian Fuente[2], Martin Hebart[8], Karim Jerbi[2], Pierre Rainville[2], Pierre Bellec[2]

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2225 Mild sleep restriction affects EEG and behavioural correlates of vigilance after only one night

Aaron Gibbings[1], Laura Ray[1], Nareg Berberian[2], Ali Shahidi Zandi[3], Azhar Quddus[4], Adrian Owen[5], Felix Comeau[6], Stuart Fogel[1]

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2226 A large scale meta-analytic view on the functional organization of the auditory cortex

Peer Herholz[1], Omer Faruk Gulban[2], Jérôme Dockès[1], Jean-Baptiste Poline[1]

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2227 Spatially Dynamic Propagation in Resting fMRI Data

Armin Iraji[1], Ashkan Faghiri[2], Robyn Miller[3], Tulay Adali[4], Vince Calhoun[5]

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2228 Overnight dynamics of brain Glutamate and GABA levels in children with ADHD

Carina Volk[1], Valeria Jaramillo[1], Melanie Furrer[1], Mirjam Studler[2], Ruth O'Gorman Tuura[1], Reto Huber[1,3]

[1]University Children's Hospital Zurich, Switzerland, [2]University of Bern, Switzerland, [3]Psychiatric Hospital University of Zurich, Switzerland

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2229 Bayesian Network Modeling Suggests Adolescent Cannabis Use Causes Accelerated Prefrontal Thinning

Max Owens[1], Matthew Albaugh[1], Nicholas Allgaier[1], Dekang Yuan[1], Gabriel Robert[2], Anthony Juliano[3], Sage Hahn[1], Renata Cupertino[3], Hugh Garavan[1]

[1]University of Vermont, Burlington, VT, [2]Kings College, London, London, [3]University of Vermont College of Medicine, Burlington, VT

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2230 Group cohesive parcellation of rsfMRI generates superior parcel parsimony than current approaches

Ajay Nemani[1], Mark Lowe[1]

[1]Cleveland Clinic, Cleveland, OH

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2232 Time-varying functional brain connectivity: temporal resolution and temporal filtering effects

Francesca Saviola[1], Stefano Tambalo[1], Jorge Jovicich[1]

[1]Center for Mind/Brain Sciences, University of Trento, Rovereto, Trento

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2233 Visual association cortex is recruited when reading words with high imageability in autism

Shannon Cahalan[1], Miriam Rosenberg-Lee[1], Hillary Levinson[1], Daniel Cruz[2], William Graves[1]

[1]Rutgers University - Newark, Newark, NJ, [2]Saint Elizabeth University, Morristown, NJ

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2234 Cortical surface area is influenced by genetic variation in enhancers gained during human evolution

Barbara Molz[1], Gökberk Alagöz[1], Dick Schijven[1], Clyde Francks[1], Jason Stein[2], Simon Fisher[1]

[1]Language and Genetics Department, Max Planck Institute for Psycholinguistics, Nijmegen, Gelderland, [2]Department of Genetics, University of North Carolina, Chapel Hill, NC

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2235 Joint cmICA: auto-linking structural and functional connectivity

Lei Wu[1], Vince Calhoun[2]

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2236 Longitudinal White Matter Development in Young Children with Prenatal Alcohol Exposure

Preeti Kar[1], Jess Reynolds[1], Melody Grohs[1], Ben Gibbard[1], Christina Tortorelli[1], Catherine Lebel[1]

[1]University of Calgary, Calgary, Alberta

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2237 Childhood trauma, inflammation and the brain in Schizophrenia

Sinead King[1], Laurena Holleran[1], Karolina Rokita[1], David Mothersill[1], S Patlola[1], JP Kelly[2], A Corvin[3], D.W Morris[4], B Hallahan[5], C McDonald[5], D McKernan[6], G Donohoe[1]

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2238 Fluctuations in estradiol and progesterone are not related to high amplitude co-fluctuations in fMRI

Catherine Cai[1], Elvisha Dhamala[2], Laura Pritschet[3], Tyler Santander[3], Emily Jacobs[3], Amy Kuceyeski[2]

[1]Cornell University, Collegeville, PA, [2]Weill Cornell Medicine, Ithaca, NY, [3]UC Santa Barbara, Santa Barbara, CA

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2241 Neural Mechanisms of Visual Word Recognition on Chinese, Pinyin and English

Shujie Geng[1], Wanwan Guo[2], Colin Blakemore[3], Jianfeng Feng[2], Miao Cao[2]

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2242 Generative Models Linking Neural Local Field Potentials with fMRI in Rat Somatosensory Cortex

Lisa Meyer-Baese[1], Amrit Kashyap[2], Xiaodi Zhang[1], Wen-Ju Pan[1], Shella Keilholz[1]

[1]Emory University / Georgia Institute of Technology, Atlanta, GA, [2]Charite University Hospital, Berlin, Brandenburg

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2243 High-precision Language Mapping through Multimodal fMRI, TMS and E-field Modelling

Maria Vasileiadi[1], Martin Tik[1], Anna-Lisa Schuler[1], Michael Woletz[1], David Linhardt[1], Christian Windischberger[1]

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2244 Stepwise connectivity reveals functional vulnerability in age-related neurodegenerative disease

Silvia Basaia[1], Camilla Cividini[2], Edoardo Gioele Spinelli[3], Veronica Castelnovo[4], Michela Leocadi[5], Davide Calderaro[5], Elisa Canu[5], Massimo Filippi[5], Federica Agosta[1]

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2245 Transient Connectivity Configurations of Triple-network Model in Obsessive-compulsive Disorder

Hailong Li[1], Xinyu Hu[1], Yingxue Gao[1], Lingxiao Cao[1], Jing Liu[1], Bin Li[2], Qiyong Gong[1], Xiaoqi Huang[1]

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2247 A mindstream from perception to reaction observed with functional magnetic resonance phase imaging

Ernst RM Hülsmann[1]

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2248 Sympathetic effects on the fMRI signal during a mental task

Pinar Ozbay[1], Catie Chang[2], Jacco de Zwart[1], Peter van Gelderen[1], Jeff Duyn[1]

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2249 Longitudinal functional connectomic changes in post-surgery glioma patients

Beatrice Luciani[1], Francesca Saviola[1], Luca Zigiotto[2], Stefano Tambalo[1], Domenico Zacà[1], Lisa Novello[1], Silvio Sarubbo[2], Jorge Jovicich[1]

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2250 Brain Structural MRI Predicts Outcome of Surgical Treatment in Trigeminal Neuralgia

Silvia Basaia[1], Luigi Albano[2], Federica Agosta[1], Antonella Castellano[3], roberta messina[1], Lina Raffaella Barzaghi[3], Andrea Falini[3], Pietro Mortini[3], Massimo Filippi[4]

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2251 Machine Learning Predictions of Delayed Reward Discounting 1-year in the Future

Max Owens[1], Sage Hahn[1], Nicholas Allgaier[1], James MacKillop[2], Dekang Yuan[1], Anthony Juliano[3], Matthew Albaugh[1], Alexandra Potter[1], Hugh Garavan[1]

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2252 Evolution of Functional Connectome Harmonics during Infancy

H Patrick Taylor[1], Sahar Ahmad[2], Zhengwang Wu[2], Weili Lin[2], Li Wang[2], Gang Li[2], Pew-Thian Yap[2]

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2253 Functional connectome reorganization after pontine stroke is associated with better motor outcomes

Emily Olafson[1], Keith Jamison[2], Hesheng Liu[3], Danhong Wang[4], Aaron Boes[5], Joel Bruss[5], Amy Kuceyeski[6]

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2254 Neural predictors of anxiety and depression outcomes associated with the COVID-19 pandemic in children

Celia Romero[1], Lauren Kupis[1], Andrea Avellaneda[1], Adriana Baez[1], Michael Alessandri[1], Jason Nomi[1], Lucina Uddin[2]

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2255 Developmental Brain Connectivity in Chimpanzees using High-Resolution Diffusion MRI

Cornelius Eichner[1], Michael Paquette[1], Guillermo Gallardo[1], Christian Bock[2], Tobias Gräßle[3], Jenny Jaffe[3], Carsten Jäger[1], Evgeniya Kirilina[1,4], Ilona Lipp[1], Toralf Mildner[1], Torsten Schlumm[1], Felizitas Wermter[2], Harald Möller[1], Nikolaus Weiskopf[1,5], Catherine Crockford[6], Roman Wittig[6], Angela Friederici[1], Alfred Anwander[1]

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2256 UK Biobank Brain Imaging Update: 43k subjects, 3k second-scans, new IDPs and confounds, COVID study

Fidel Alfaro Almagro[1], Ludovica Griffanti[2], Karla Miller[3], Stephen Smith[4]

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2258 Estimating Multimodal Brain Age in the Whitehall II Imaging Sub-Study

Ann-Marie de Lange[1], Melis Anatürk[2], Sana Suri[3], Tobias Kaufmann[4], James Cole[2], Ludovica Griffanti[3], Enikő Zsoldos[3], Daria Jensen[3], Nicola Filippini[3], Archana Singh-Manoux[5], Mika Kivimäki[2], Lars Westlye[6], Klaus Ebmeier[3]

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2259 Maturational differences in functional connectivity networks of future binge drinkers

Alberto del Cerro León[1,2], Luis Antón-Toro[3,2], Ricardo Bruña[3,2,4], Ángeles Correas[2], Fernando Maestú[3,2,4], Luis Miguel García-Moreno[5]

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2260 Chronic inflammation is related to brain morphometry in children growing up in extreme poverty

Ted Turesky[1], Laura Pirazzoli[2], Shahria Kakon[3], Rashidul Haque[3], Nazrul Islam[4], William Petri[5], Charles Nelson[2], Nadine Gaab[1], Amala Someshwar[6]

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2261 Repetitive Transcranial Magnetic Stimulation Alters Variability in Brain Function in Schizophrenia

Christin Schifani[1], Colin Hawco[2], Thomas Tan[1], Daniel Blumberger[2], Zafiris Daskalakis[2], Aristotle Voineskos[2]

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2262 A Cascaded 3D U-Net Model for Fast Automatic Segmentation of the Hippocampus

Swapna Premasiri[1,2], Aurelie Bussy[1,3], Gabriel A. Devenyi[1,4], M. Mallar Chakravarty[1,2,3,4]

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2263 A Week in the Life of the Brain: Complementary Stable Metastates Emerge from Days of Continuous ECOG

Maxwell Wang[1], Michael Ward[2], Max G'sell[3], R. Mark Richardson[4], Avniel Ghuman[2]

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2264 Predictive modeling reveals subgroup-specific brain-phenotype relationships

Abigail Greene[1], Xilin Shen[1], Stephanie Noble[2], C. Alice Hahn[2], Jagriti Arora[1], Fuyuze Tokoglu[1], Marisa Spann[3], Daniel Barron[4], Dustin Scheinost[2], Todd Constable[2]

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2265 Detection of true subgroups in structural MRI using unsupervised learning: Comparison of methods

Lee Jollans[1], Philipp Sämann[2], Elisabeth Binder[3]

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2266 Neural tracking of continuous speech is associated with the degree of hearing loss in older adults

Raffael Schmitt[1], Nathalie Giroud[1]

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2267 Occipito-temporal sensitivity to numbers in children throughout pre- and elementary school

Gorka Fraga González[1], Sarah Di Pietro[1], Georgette Pleisch[1], Jasmin Neuenschwander[1], Susanne Walitza[1], Daniel Brandeis[1], Iliana Karipidis[2], Silvia Brem[3]

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2268 Structural brain correlates predicting substance dependence

Jonatan Ottino-González[1], Renata Cupertino[1], ZHIPENG CAO[1], Patricia Conrod[2], Scott Mackey[1], Hugh Garavan[1], ENIGMA Addiction working-group[1]

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2269 Anatomo-functional characterization of voice-selective regions in the human frontal lobe

Melina Cordeau[1], Ihsane Bichoutar[1], Alexandre Pron[1], Isaure Michaud[1], Guillaume Auzias[2], Pascal Belin[1]

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2270 Improving the Quantification of the Lateral Geniculate Nucleus Using a 3D-Edge Enhancement Technique

Mikhail Lipin[1], Jean Bennett[1], Manzar Ashtari[1]

[1]University of Pennsylvania, Philadelphia, PA

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2271 Abagen: An open-source toolbox for working with the Allen Human Brain Atlas

Ross Markello[1], Golia Shafiei[1], Vincent Bazinet[1], Ying-Qiu Zheng[2], Bratislav Misic[1]

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2272 Cortico-vocal coherence during speech perception of stress in a nonnative language

Jo-Fu Lotus Lin[1], Chia-Ying Tsai[1], Toshiaki Imada[2], Patricia Kuhl[3]

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2273 Functional connectome harmonics as a basis for discrete brain states

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2275 Effects of BOLD dynamic changes during micro-sleep on functional connectivity measures

Chun Siong Soon[1], Ksenia Vinogradova[1], Ju Lynn Ong[2], Vince Calhoun[3], Thomas Liu[4], Juan Helen Zhou[5], Eric Kwun Kei Ng[6], Michael Chee Wei Liang[5]

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2276 Deep behavioral phenotyping reveals two multivariate axes of default network covariance

Manesh Girn[1], Danilo Bzdok[2], Amber Lockrow[3], Roni Setton[4], Laetitia Mwilambwe-Tshilobo[1], Gary Turner[5], Nathan Spreng[1]

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2277 An RCT of a Highly Challenging Balance Training and Its Effect on Brain and motor function in PD

Franziska Albrecht[1], Joana Pereira[1], Malin Freidle[1], Hanna Johansson[1], Eric Westman[1], Erika Franzén[1]

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2278 The Cuban Human Brain Mapping Project database

Pedro Sosa[1], Lidice Garcia[2], Jorge Bayard[3], Maria L. Bringas-Vega[1], Eduardo Vazquez[2], Iris Gil[2], Samir Das[3], Cecile Madjar[3], Trinidad Virues[4], Zia Mohades[3], Leigh MacIntyre[3], christine rogers[3], Shawn Brown[3], Lourdes Urrutia[4], Alan Evans[3], Mitchell Sosa[4]

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2279 Multimodal, multilayer brain network topology correlates of healthy aging and executive functioning

Lucas Breedt[1], Fernando Santos[1], Arjan Hillebrand[2], Liesbeth Reneman[1], Anne-Fleur van Rootselaar[1], Menno Schoonheim[2], Cornelis Stam[2], Anouk Ticheler[1], Betty Tijms[3], Dick Veltman[1], Chris Vriend[1], Margot Wagenmakers[4], Guido van Wingen[1], Jeroen Geurts[2], Anouk Schrantee[1], Linda Douw[2]

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2281 Deep Learning Predicts Functional Centrality from Structural Centrality

Josh Neudorf[1], Shaylyn Kress[1], Ron Borowsky[1]

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2282 Mathematical modeling reveals the correlates of cognitive impairment across the FTLD spectrum

Camilla Cividini[1,2], Silvia Basaia[1], Edoardo Gioele Spinelli[1,2], Veronica Castelnovo[1,2], Elisa Canu[1], Nilo Riva[3], Giuseppe Magnani[4], Francesca Caso[4], Massimo Filippi[1,2,3,4,5], Federica Agosta[1,2,4]

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2283 Age-related network connectivity pattern changes are associated with risk for psychosis

Roberta Passiatore[1,2], Antonucci Linda[1,3], Thomas DeRamus[2], Fazio Leonardo[1], Giuseppe Stolfa[1], Marina Sangiuliano[4], Ileana Andriola[4], Mario Altamura[5], Alessandro Saponaro[6], Flora Brudaglio[7], Angela Carofiglio[8], Teresa Popolizio[9], Paolo Taurisano[1], Fabio Sambataro[10], Giuseppe Blasi[1,4], Alessandro Bertolino[1,4], Vince Calhoun[2], Giulio Pergola[1,11]

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2284 Magnetic Resonance-guided Focused Ultrasound (MRgFUS) Lesioning of the VIM: A Multimodal MRI Study

Neeraj Upadhyay[1], Emily Pohl[1], Xenia Kobeleva[2], Veronika Purrer[3], Angelika Maurer[1], Vera Keil[4], Christine Kindler[5], Valeri Borger[6], Claus Pieper[1], Simon Groetz[7], Lukas Scheef[8], Jaroslaw Maciaczyk[6], Hans Schild[1], Hartmut Vatter[6], Thomas Klockgether[3], Alexander Radbruch[9], Ulrike Attenberger[1], Ullrich Wüllner[3], Henning Boecker[8]

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2285 Effects of rhythmic nasal epithelium stimulation on functional connectivity and consciousness state

Gabriele Penazzi[1], Andrea Zaccaro[2], Danilo Menicucci[2], Andrea De Vito[3], Andrea Piarulli[2], Luca Bruschini[3], Angelo Gemignani[2], Nicola De Pisapia[1]

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2287 High amplitude activity in the default networks shifts locus as a function of anesthetic in rats

Wen-Ju Pan[1], Nmachi Anumba[1], Eric Maltbie[1], Nan Xu[1], Shella Keilholz[1]

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2288 Interleaved acquisition of GABA and BOLD fluctuations in a clinical 3T MRI system: a phantom study

Laura Beghini[1], Francesca Saviola[1], Stefano Tambalo[1], Jorge Jovicich[1]

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2289 Altered resting state network coherence in remitted MDD

Kimberly Ray[1], Jason Shumake[2], Christopher Beevers[2], David Schnyer[2]
[1]*University of Texas, Austin, TX,* [2]*UT Austin, Austin, TX*

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2290 Brain network changes in post COVID-19 syndrome

Martin Tik[1], Maria Vasileiadi[1], Michael Woletz[1], David Linhardt[1], Anna-Lisa Schuler[1], Christian Windischberger[1]
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2291 Neuromarkers of attention and working memory distinguish these processes in children

Omid Kardan[1], Andrew Stier[1], Carlos Cardenas-Iniguez[1], Julia Pruin[1], Yuting Deng[1], Taylor Chamberlain[1], Wesley Meredith[2], Kathryn Schertz[1], Xihan Zhang[1], Jillian Bowman[1], Tanvi Lakhtakia[1], Lucy Tindel[1], Marc Berman[1], Monica Rosenberg[3]
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2292 Bidirectional associations of physical activity and brain structure in middle-aged and older people

Amy Hofman[1], María Rodriguez-Ayllon[1], Pauline Croll[1,2], Alexander Neumann[3], Wiro Niessen[2], Arfan Ikram[1], Trudy Voortman[1], Meike Vernooij[1,2], Ryan Muetzel[1,4]
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2293 Diffusion MRI Correlates of MDS-UPDRS Motor Score

Arun Venkataraman[1], Md Nasir Uddin[1], Taylor Myers[1], Zhengwu Zhang[1], Ruth Schneider[1], Jianhui Zhong[1], Giovanni Schifitto[1]
[1]*University of Rochester, Rochester, NY*

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2294 Resample aggregating improves the generalizability of Connectome Predictive Modelling

David O'Connor[1], Evelyn Lake[1], Dustin Scheinost[1], Todd Constable[1]
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2295 Connectivity-based parcellation for Vim identification: a methodological perspective

Salvatore Bertino[1], Gianpaolo Basile[1], Demetrio Milardi[1], Giuseppe Anastasi[1], Alberto Cacciola[1]
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2296 Resting fMRI Effective Connectivity Using Greedy Adjacencies and Non-Gaussian Orientations (GANGO)

Eric Rawls[1], Erich Kummerfeld[1], Anna Zilverstand[2]
[1]*University of Minnesota, Minneapolis, MN,* [2]*University of Minnesota Health, Minneapolis, MN*

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2297 Effects of prefrontal cortex maturation on verbal memory development

Clara Ekerdt[1], Nadia Klijn[1], Willeke Menks[1], Guillen Fernandez[1]
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2298 Functional connectivity and social cognition: Multivariate links across the schizophrenia spectrum

Lindsay Oliver[1], Colin Hawco[2], Navona Calarco[2], Iska Moxon-Emre[1], Thomas Tan[1], James Gold[3], George Foussias[2], Pamela DeRosse[4], Miklos Argyelan[4], Robert Buchanan[3], Anil Malhotra[4], Aristotle Voineskos[2]
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2299 Relaxometric Alterations in Subcortical Structures of Patients with Psychotic Spectrum Disorders

Yu Veronica Sui[1], Hilary Bertisch[2], Donald Goff[2], Alexey Samsonov[3], Mariana Lazar[2]
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2300 Cerebral network reorganization and consciousness recovery in severe traumatic brain injury

Chantal Delon-Martin[1], Lydia OUJAMAA[2], Jean-François PAYEN[3], Sophie Achard[4]
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2301 Cortical excitability shapes somatosensory perception with spatiotemporally structured dynamics

Tilman Stephani[1,2], Alice Hodapp[1], Mina Jamshidi Idaji[1,2,3], Birgit Nierula[1], Falk Eippert[1], Arno Villringer[1,4,5], Vadim Nikulin[1,6]
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2302 Recurrent deep network ensemble for the prediction of general intelligence from RS-fMRI timeseries

Bruno Hebling Vieira[1], Julien Dubois[2], Vince Calhoun[3], Carlos Garrido Salmon[4]

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2303 EEG responses to sound omissions are modulated by predictability

Ruxandra Tivadar[1], Sigurd Alnes[1], Anna Morf[1], Athina Tzovara[1]

[1]University of Bern, Bern, Bern

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2304 Confounds python library to mitigate effect of covariates and for [multi-site] data harmonization

Pradeep Reddy Raamana[1], Future Contributors[2]

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2305 Comparing Predictions of LSTM, GPT-2 and BERT to fMRI Data Obtained During Story Listening

Alexandre Pasquiou[1,2], Yair Lakretz[2], John Hale[3], Bertrand Thirion[1], Christophe Pallier[2]

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2307 Decoding behavioral responses from fMRI without learning behavioral responses from fMRI

Joram Soch[1,2], John-Dylan Haynes[1,3,4,5,6,7,8,9]

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2308 Functional connectivity of memory systems in offspring of patients with Alzheimer's disease

Zachary Goodman[1], Jason Nomi[2], Lauren Kupis[2], Lucina Uddin[1], David Loewenstein[3], Rosie Curiel Cid[3]

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2309 Accurate brain-age prediction from clinically relevant structural MRI scans

David Wood[1], Sina Kafiabadi[2], Ayisha Al Busaidi[2], Emily Guilhem[2], Antanas Montvila[2], Jeremy Lynch[3], Matthew Townend[4], Siddharth Agarwal[1], Gareth J. Barker[5], Sebastian Ourselin[1], Thomas Booth[1], James Cole[6]

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2310 Waveform motifs in neuronal oscillations

Andrew Quinn[1], Vitor Lopes-dos-Santos[1], Norden Huang[2], Wei-Kuang Liang[3], Jia-Rong Yeh[4], Chi-Hung Juan[3], Anna Nobre[1], David Dupret[1], Mark Woolrich[1]

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2311 Functional architecture of the aging brain

Roni Setton[1], Laetitia Mwilambwe-Tshilobo[2], Manesh Girn[2], Amber Lockrow[3], Giulia Baracchini[4], Alex Lowe[5], Benjamin Cassidy[6], Jian Li[7], Danilo Bzdok[8], Richard Leahy[9], Tian Ge[10], Daniel Margulies[11], Bratislav Misic[12], Boris Bernhardt[13], W. Stevens[14], Felipe De Brigard[15], Prantik Kundu[16], Gary Turner[14], Nathan Spreng[2]

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2312 Diffusion MRI Subsampling: Optimizing b-vector selection

Arun Venkataraman[1], William Consagra[1], Zhengwu Zhang[1], Jianhui Zhong[1]

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2313 RTMS Reveals Significant Pain Relief in Nonspecific CLBP Patients by rs-fMRI Functional Connectivity

Mahboubeh Masoumbeigi[1], Nader Riyahi Alam[1,2], Ramin Kordi[3], Mohsen Rostami[4], Mohadeseh Yadollahi[5], Amir Homayoun Jafari[1], abbas Rahimiforoushani[6], Hasan Hashemi[7]

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2314 The dimensionality of representational space calibrates to abstract reasoning complexity

Stamatios Liapis[1,2,3], Thomas Morin[1,2,3], Joseph McGuire[1,3,4], Chantal Stern[1,3,4]

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2315 Adiponectin-Correlated Functional Connectivity as a Predictor for Prognosis of Bipolar Disorder

Yen-Ling Chen[1,2], Tzu-Hsuan Huang[1,2], Ya-Mei Bai[3,4], Mu-Hong Chen[3,4], Pei-Chi Tu[5,3,6], Yu-Te Wu[1,2]

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2316 Functional connectivity in neurodegenerative diseases different ipsi/contralateral spatial decay

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2317 Mapping Cortical Networks in Parkinson Disease using High-Density Diffuse Optical Tomography

Arefeh Sherafati[1], Adam Eggebrecht[2], Monalisa Munsi[1], Tracy Burns-Yocum[3], Heather Lugar[1], Anagha Narayanan[4], Tasha Doty[1], Sarah Eisenstein[1], Alexandra Svoboda[5], Mariel Schroeder[6], Abraham Snyder[1], Mwiza Ushe[1], Joseph Culver[1], Tamara Hershey[1]

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2318 Comparing ballistocardiogram (BCG) artifact reduction methods in concurrent EEG-fMRI

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2319 Fantastic measures and how to repeat them: Tractography-based repeatability of microstructural MRI

Dmitri Shastin[1], Malwina Molendowska[1], Benjamin Newman[2], Alexander Leemans[3], Anouk Verschuur[4], Veronica Dell-Acqua[1], Anna Schroder[5], Kurt Schilling[6], Sila Genc[1], Pedro Luque Laguna[1], Elena Kleban[1], Derek Jones[1], Chantal Tax[1], Kristin Koller[1]

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2320 Structural neuroadaptative changes in alcohol use disorder

Diego Angeles-Valdez[1], Alejandra López-Castro[2], Sarael Alcauter[3], Eduardo Garza-Villarreal[4]

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2321 Stability and Reproducibility of CCA and PLS models on brain-psychopathology relationships

Hajer Nakua[1], Anthony McIntosh[2], Herve Abdi[3], Colin Hawco[4], Aristotle Voineskos[4], Stephanie Ameis[5]

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2322 Polyphenotypic "Sex Scores" in the UK Biobank: Molecular Architecture and Intrasex Variability

Daniel Vosberg[1], Nadine Parker[2], Jean Shin[1], Andrei Mouraviev[1], Zdenka Pausova[1], Tomáš Paus[2]

[1]SickKids, Toronto, Ontario, [2]University of Toronto, Toronto, Ontario

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2323 Neurophysiological fingerprints of human perceptual decision making: a MEG study

Antea D'Andrea[1,2], Alessio Basti[1,2], Annalisa Tosoni[1,2], Federico Chella[1,2], Vittorio Pizzella[1,2], Laura Marzetti[1,2]

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2324 Estimating the true discovery proportion of clusters based on cluster extent thresholding in fMRI

Jelle Goeman[1], Ramin Monajemi[1], Pawel Gorecki[2], Xu Chen[1], Wouter Weeda[3]

[1]Leiden University Medical Center, Leiden, Netherlands, [2]University of Warsaw, Warsaw, Poland, [3]Leiden University, Leiden, Netherlands

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2325 Fast and accurate EPI spatial normalization using convolutional neural network

Loic Tetrel[1], Pierre Bellec[2]

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2326 Comparative network analysis of resting-state fMRI and EEG dynamic functional connectomes

Francisca Ayres-Ribeiro[1,2], Jonathan Wirsich[3], Rodolfo Abreu[4,5], João Jorge[6,7], Patrícia Figueiredo[2], Alexandre Francisco[1]

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2328 Three dorsolateral prefrontal cortex loci predict cocaine relapse with their functional connectivity

Tianye Zhai[1], Betty Jo Salmeron[1], Hong Gu[1], Bryon Adinoff[2], Elliot A. Stein[1], Yihong Yang[1]

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2329 Is Parental History of Depression Related to Child Brain Structure?: Results From the ABCD Study

Matthew Albaugh[1], Max Owens[1], Jonatan Ottino-González[1], Dekang Yuan[1], Bader Chaarani[2], Nikos Makris[3], Rex Forehand[1], Hugh Garavan[4], Alexandra Potter[1]

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2330 Empirical Mode Decomposition tools in Python

Andrew Quinn[1], Vitor Lopes-dos-Santos[1], David Dupret[1], Anna Nobre[1], Mark Woolrich[1]

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2331 Resting state functional connectivity networks predict motor behaviors in Parkinson's Disease

Anjanibhargavi Ragothaman[1], Martina Mancini[1], John Nutt[1], Damien Fair[2], Fay Horak[1], Oscar Miranda-Dominguez[2]

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2332 Effects of motion on quasi-periodic patterns in the brains of anesthetized rats

Eric Maltbie[1], Wen-Ju Pan[2], Vahid Khalilzad Sharghi[2], Shella Keilholz[3]

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2333 Amplitude of low-frequency fluctuations is associated with Negative Symptom Domains in Schizophrenia

Eun-jin Cheon[1,2], Bingchen Gao[2], Bhim Adhikari[3], Jesse Edmund[4], Aysenil Belger[5], Steven Potkin[6,7], Juan Bustillo[8], Daniel Mathalon[9], Judith Ford[9], Kelvin Lim[10,11], Bryon Mueller[10], Adrian Preda[7], Gregory Strauss[12], Paul Thompson[13], Neda Jahanshad[13], Peter Kochunov[14], Vince Calhoun[15], Jessica A. Turner[16], Theo van Erp[2,17]

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2334 Temporopolar Cortex Anomalies in Temporal Lobe Epilepsy Detected with Diffusion Kurtosis Imaging

Loxlan Kasa[1], Terry Peters[1], Seyed Mirsattari[1], Ali Khan[1], Roy Haast[1]

[1]Western University, London, Canada

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2335 Brief monocular deprivation elicits distinct effects on visual and audio-visual neural oscillations

Alessandra Federici[1], Giulio Bernardi[1], Irene Senna[2], Marta Fantoni[1], Marc Ernst[2], Emiliano Ricciardi[1], Davide Bottari[1]

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2336 Executive function performance and brain nodal properties in Parkinson's Disease

Giacomo Tomezzoli[1,2], Lisa Novello[2], Francesca Saviola[2], Stefano Tambalo[2], Beatrice Luciani[2], Enrica Pierotti[2], Céline Charroud[2], Alessandro Gober[2], Francesca Giacomoni[2], Pamela Narduzzi[2], Claudia Meli[2], Marika Falla[2], Alessandra Dodich[2], Luca Turella[2], Costanza Papagno[2], Jorge Jovicich[2]

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2337 White matter and links to language abilities in children and youth with prenatal alcohol exposure

Maria Jose Castro Gomez[1,2], Christian Beaulieu[1,2], Carly A. McMorris[3], Ben Gibbard[4,5], Chris Tortorelli[6], Catherine Lebel[4,7]

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2338 Characterizing effects of age, sex and psychosis symptoms on thalamocortical functional connectivity

Anna Huang[1], Baxter Rogers[2], Julia Sheffield[1], Simon Vandekar[3], Alan Anticevic[4], Neil Woodward[1]

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2339 Visualizing Neuroimaging Data Located at Different Sites with Privacy Guarantees

Debbrata Kumar Saha[1], Vince Calhoun[2], Yuhui Du[3], Zening Fu[3], Sandeep R. Panta[4], Soo Min Kwon[5], Anand D. Sarwate[5], Sergey Plis[6]

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2340 Cortico-subthalamic interactions during implicit and explicit emotional processing

Florencia Sanmartino[1,2], Raul Rashid-Lopez[2], Fernando Lopez-Sosa[2], Alvaro Cruz-Gomez[2], Elena Lozano-Soto[1,2], Francisco Marin-Laut[3], Jesus Rique[4], Raul Espinosa-Rosso[5], Wolf-Julian Neumann[6], Javier Gonzalez-Rosa[1,2]

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2341 Preserved dynamic architecture contributes to the brain's ability to recover consciousness

Charlotte Maschke[1], Catherine Duclos[2], George Mashour[3], Adrian Owen[4], Stefanie Blain-Moraes[2]

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2342 Viewpoint Equivariance: Are 3D CapsNets Any Good for Hippocampal Segmentation?

Clement POIRET[1], Antoine BOUYEURE[1], Sandesh PATIL[1], Edouard Duchesnay[2], Antoine Grigis[2], Frederic LEMAITRE[3], Marion NOULHIANE[1]

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2344 Characterization of the Haemodynamic Response after a Buprenorphine Challenge Study in Human

Hamza Cherkaoui[1], Thomas Moreau[2], Philippe Ciuciu[3], Brice Fernandez[4], Michel Bottlaender[3], Nicolas Tournier[5], Claire Leroy[5]

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2347 Effects of prenatal opioids exposure and treatment on newborn brain functional connectivity

Janelle Liu[1], Karen Grewen[2], Wei Gao[1]

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2348 Graph properties of functional brain networks and associations with cognition in periadolescence

Connor Phipps[1], Jennifer Sexton[1], Lillian Behm[1], Thomas DeCesare[1], Abi Heller[1], Arthur Maerlender[2], Vaishali Phatak[1], Justin Cramer[1], James Blair[3], Daniel Murman[1], David Warren[1]

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2349 Functional mapping pitfalls and limitations on the ventral temporal cortex

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2350 An EEG Study on Slow Wave Features Related to Sleep-Dependent Consolidation of Procedural Memory

Khaoula Louati[1], Nicolas van den Berg[1], Aaron Gibbings[1], Laura Ray[1], Stuart Fogel[1]

[1]The University of Ottawa, Ottawa, Ontario

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2351 Interpreting brain dynamics via deep learning

Md Mahfuzur Rahman[1], Usman Mahmood[1], Alex Fedorov[2], Noah Lewis[2], Zening Fu[1], Vince Calhoun[3], Sergey Plis[1]

[1]Georgia State University, Atlanta, GA, [2]Georgia Institute of Technology, Atlanta, GA, [3]GSU/GATech/Emory, Atlanta, GA

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2352 A computational model for brain lactate exchanges in neuro-glio-vascular coupling

Milad Soltanzadeh[1,2], Solenna Blanchard[3], Habib Benali[1,2]

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2354 Sex Differences in Early Childhood Development Based on Resting-State Functional Connectivity

Sonja Fenske[1], Haitao Chen[1], Emil Cornea[2], John Gilmore[2], Wei Gao[3]

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2355 Multivariate Analysis of Amygdala Connected Regions in Autism Spectrum Disorder

Joshua Lee[1], Derek Andrews[1], Marjorie Solomon[1], Sally Rogers[1], Sally Ozonoff[1], David Amaral[1], Christine Nordahl[1]

[1]University of California Davis MIND Institute, Sacramento, CA

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2356 Neural Subgroups Based on Directed Functional Networks Reflect Psychopathology Risk and Resilience

Rajpreet Chahal[1], Jonas Miller[1], Jaclyn Kirshenbaum[1], Tiffany Ho[2], Ian Gotlib[1]

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2357 Surgical menopause affects resting-state functional connectivity and network segregation in midlife

Laura Gravelsins[1], Nicole Gervais[1,2], Anne Almey[1], Annie Duchesne[3], Alana Brown[1], Rebekah Reuben[1], Jenny Rieck[2], Giulia Baracchini[4], William Foulkes[4], Wendy Meschino[1], Cheryl Grady[1,2], Gillian Einstein[1,2,5]

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2359 Inspectro Gadget: A Tool For Extracting Gene Subunit Distribution in MRS Regions

Elizabeth McManus[1], Nils Muhlert[1], Niall Duncan[2]

[1]The University of Manchester, Manchester, United Kingdom, [2]Taipei Medical University, Taipei, Taiwan

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2360 Distributed dysconnectivity between default network and attention networks in youth with ADHD

Tristan Greathouse[1], Alex Weigard[1], Aman Taxali[1], Mike Angstadt[1], Saige Rutherford[1], Chandra Sripada[1], Mary Heitzeg[1]

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2361 Energy metabolism of the brain during exercise: Effects of exercise on lactate and glucose metabolism

Faezeh Sohrabi[1], Pierre Berroir[1], Jamie Near[2], Marie-Eve Rivard[1], Alicia Wright[1], Antonys Melek[1], Stephane Frenette[1], Stephan Blinder[1], Jean-Paul Soucy[3], Habib Benali[4]

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2362 Cognitive impairment in multiple sclerosis is related to reduced functional network state switching

Tommy Broeders[1], Vasco Rauh[1], Linda Douw[1], Christiaan Vinkers[1], Jeroen Geurts[1], Menno Schoonheim[1]

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2363 Association of Amygdala Volume and Development with Anxiety in Autism Spectrum Disorder

Derek Andrews[1], Leon Aksman[2], Connor Kerns[3], Joshua Lee[4], Einat Waizbard-Bartov[1], Marjorie Solomon[5], Sally Rogers[5], Andre Altmann[6], Christine Nordahl[5], David Amaral[5]

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2364 Towards a Hierarchical Model of Social Cognition: A Neuroimaging Meta-Analysis and Integrative Revie

Matthias Schurz[1], Joaquim Radua[2], Matthias Tholen[3], Lara Maliske[4], Daniel Margulies[5], Rogier Mars[6], Jerome Sallet[7], Philipp Kanske[4]

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2366 Brain Dynamics Moderate Cognitive Flexibility Across the Lifespan

Lauren Kupis[1], Zachary Goodman[2], Salome Kornfeld[3], Stephanie Hoang[3], Celia Romero[4], Bryce Dirks[3], Catie Chang[5], Nathan Spreng[6], Jason Nomi[4], Lucina Uddin[2]

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2367 Differences in thalamus structure and metabolism relate to surgical outcome in trigeminal neuralgia

Hayden Danyluk[1], Jennifer Andrews[1], Rohit Kesarwani[1], Peter Seres[1], Robert Broad[1], B. Matt Wheatley[1], Tejas Sankar[1]

[1]University of Alberta, Edmonton, Alberta

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2368 Functional and Structural Brain Features of Intact versus Impaired Episodic Memory in Epilepsy

Kapil Chaudhary[1], Walter Hinds[1], Shilpi Modi[1], Xiaosong He[2], Dorian Pustina[3], Michael Sperling[1], Joseph Tracy[1]

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2369 NeuroCOVID19: Impact of the Virus on the Brain

Simon Graham[1], J. Jean Chen[2], Asaf Gilboa[2], Bradley MacIntosh[3], Allison Sekuler[2], Sandra Black[1], Jordan Chad[2], Ivy Cheng[1], Robert Fowler[1], Fuqiang Gao[1], Maged Goubran[1], Chris Heyn[1], Aravinthan Jegatheesan[1], Xiang Ji[1], Benjamin Lam[1], Mario Masellis[4], Jennifer Rabin[1], Eugenie Roudaia[2]

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2370 Disability in MS is related to altered MEG-based functional network topology and gray matter atrophy

Lodewijk de Ruiter[1], Shanna Kulik[2], Ilse Nauta[3], Jeroen Geurts[4], Cornelis Stam[4], Arjan Hillebrand[4], Bernard Uitdehaag[5], Eva Strijbis[5], Menno Schoonheim[4]

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2371 The ciftiTools package: Reading, analyzing, visualizing and writing CIFTI files in R

Amanda Mejia[1], Damon Pham[2]

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2372 Dynamic functional connectivity profile of the salience network across the lifespan

William Snyder[1], Lucina Uddin[2], Jason Nomi[3]

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2373 NIH Funded NITRC's Triad of Services: Software, Data, Compute

David Kennedy[1], Nina Preuss[2], Abby Paulson[3], Albert Crowley[4], Christian Haselgrove[1]

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2374 Using a Graph Convolutional Network to Predict Brain Function from Structure at the Individual Level

Md Soumik Farhan[1], Ahmed Ashraf[1], Chase Figley[1]

[1]University of Manitoba, Winnipeg, Manitoba

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2375 IFOF, not the AF, asymmetry predicts functional lateralization for language

Olga Dragoy[1], Tatiana Bolgina[1], Victor Karpychev[1], Svetlana Malyutina[1], Victoria Zinchenko[2], Vadim Ushakov[3], Maria Ivanova[4], Grigory Ignatyev[1], Ryan Cabeen[5]

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2376 Behavioral, Anatomical and Genetic Convergence of Affect and Cognition in Superior Frontal Cortex

H. Lina Schaare[1,2], Nevena Kraljević[2,3], Simon Eickhoff[2,3], Peter Kochunov[4], B.T. Thomas Yeo[5,6,7], Shahrzad Kharabian Masouleh[2,3], Sofie Valk[1,2,3]

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2377 Temporal-parietal junction structural connectivity and adolescent prosocial behavior

Benjamin Sipes[1], Ca Nguyen[1], Kendall Parks[1], Namasvi Jariwala[1], Tony Yang[1], Olga Tymofiyeva[1]

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2378 Nonparametric causal analysis of brain and cognition, applied to developmental neuroimaging

Manjari Narayan[1], Noah Simon[2], Adam Richie-Halford[2], Ariel Rokem[2], Jason Yeatman[1]

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2379 Dynamic Co-Activation Patterns in the awake and anesthetized macaque

Julian Ramirez[1], Daniel Gutierrez-Barragan[2], Hecheng Jin[1], Jae Cho[1], Brian Russ[3], Arnaud Falchier[3,4], Gary Linn[3,4], Charles Schroeder[3], Alessandro Gozzi[5], Michael Milham[1], Ting Xu[1]

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2380 Microstructure-mesh projection: An approach for the granular analysis of hippocampal microstructure

Kirsten Lynch[1], Ryan Cabeen[1], Yonggang Shi[1], Arthur Toga[1]
[1]*University of Southern California, Los Angeles, CA*

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2381 Brain Networks Underlying Working Memory are Linked to Subjective Experience of Chronic Pain

Jennika Veinot[1], Amita Goyal[1], Manyoel Lim[1], Javeria Ali Hashmi[1]
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2382 Network Modeling of Sex Differences in Brain Integrity and Metabolic Health

Janelle Foret[1], Maria Dekhtyar[1], James Cole[2], Drew Gourley[1], Hirofumi Tanaka[1], Andreana Haley[1]
[1]*The University of Texas at Austin, Austin, TX,* [2]*Dementia Research Centre, University College London, London, UK*

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2383 The ENIGMA Toolbox: cross-disorder and multiscale contextualization of neuroimaging datasets

Sara Larivière[1], Casey Paquola[2], Bo-yong Park[3], Jessica Royer[4], Yezhou Wang[5], Oualid Benkarim[6], Reinder Vos de Wael[7], Sofie Valk[8], Sophia Thomopoulos[9], Matthias Kirschner[10], ENIGMA Epilepsy Working Group[9], Sanjay Sisodiya[11], Carrie McDonald[12], Paul Thompson[13], Boris Bernhardt[6]
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2384 Auditory statistics processing revealed by EEG frequency-tagging of synthetic sounds

Martina Berto[1], Emiliano Ricciardi[1], Pietro Pietrini[1], Davide Bottari[1]
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2385 Contributions of human amygdala nuclei to resting-state networks

Uriel Arguinzones[1], Sara Seoane[1], Niels Janssen[1]
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2386 Salience network leads sequenced brain changes underlying fMRI correlation with EEG and physiology

Yameng Gu[1], Feng Han[1], Lucas Sainburg[1], Xiao Liu[1]
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2387 Mapping Layer-specific Orientation Pinwheel Pattern in Cat Visual Cortex with Functional CBV Imaging

Shinho Cho[1], Djaudat Idiyatullin[1], Wei Zhu[1], Xiao-Hong Zhu[1], Kamil Uğurbil[1], Wei Chen[1]
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2388 Registration of electrophysiological source imaging with the BigBrain using HCP compatible pipelines

Ariosky Areces-Gonzalez[1], Deirel Paz Linares[1], Anisleidy González Mitjans[1], Claude Lepage[2], Lindsay Lewis[2], Paule Toussaint[2], Jorge Bosch-Bayard[2], Pedro Valdés-Sosa[1]
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2389 Interoceptive cardiac activity is attributed to oneself independently of feedback synchronicity

Paradeisios Boulakis[1], Federico Raimondo[2], Sepehr Mortaheb[1], Lionel Naccache[3], Athena Demertzi[1]
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2390 Cognitive insights from evolutionarily new brain structures in prefrontal cortex

Willa Voorhies[1], Jacob Miller[2], Jewelia Yao[2], Silvia Bunge[2], Kevin Weiner[2]
[1]*University of California, Berkeley, CA,* [2]*University of California, Berkeley, Berkeley, CA*

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2392 Functional Connectivity Analyses in Childhood-Onset OCD Yield Negative Results

Hallee Shearer[1], Simon Frew[2], Ahmad Samara[1], Jeffrey Eilbott[3], Fern Jaspers-Fayer[3], S. Stewart[1], Tamara Vanderwal[1]
[1]*University of British Columbia, Vancouver, British Columbia,* [2]*University of Waterloo, Waterloo, Ontario,* [3]*BC Children's Hospital Research Institute, Vancouver, British Columbia*

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2393 Limbic system functional connectivity predicts response to surgery for trigeminal neuralgia

Hayden Danyluk[1], Stefan Lang[2], Oury Monchi[2], Tejas Sankar[1]
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2395 High-field brain imaging of amygdala subregions in adolescents with major depressive disorder

Zeynep Başgöze[1], Bryon Mueller[1], Bonnie Klimes-Dougan[2], Kathryn Cullen[1]
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2397 Dynamical Patterns and Individual Variability of Structure-Function Coupling Across the Neocortex

Zhen-Qi Liu[1], Bertha Vázquez-Rodríguez[1], Bratislav Misic[1]
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2398 Local neurodegeneration and global connectivity adaptation across the FTD-AD spectrum

Jesse Brown[1], Alex Lee[1], Lorenzo Pasquini[1], Adit Friedberg[1], Gil Rabinovici[1], Joel Kramer[1], Maria Luisa Gorno-Tempini[1], Howard Rosen[1], Bruce Miller[1], William Seeley[1]
[1]*UCSF, San Francisco, CA*

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2399 Steady-State EEG Components Elucidate Unimodal and Multisensory Aspects of Letter-Sound Processing

Lindsey Hasak[1], Blair Kaneshiro[1], Quynh Trang Nguyen[1], Fang Wang[1], Alexandra Yakovleva[2,3], Vladimir Vildavski[2,3], Anthony Norcia[2,3], Bruce McCandliss[1,2]
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2400 Characteristics of Beta Oscillations in The Motor Cortex During Acquisition Phase of Motor Learning

Xuanteng Yan[1], Georgios Mitsis[2], Marie-Hélène Boudrias[3]
[1]*McGill University, Montréal, Quebec,* [2]*Department of Bioengineering, McGill University, Montreal, QC,* [3]*McGill University, Montréal, Canada*

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2401 Some Simple Memory Tests Are Unaffected by Age in Healthy Older Adults

Jose Pardo[1], Shantal Nyabwari[2], Joel Lee[3]
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2402 Repertoire of dynamic states in neonatal functional brain networks

Lucas Souza Franca[1,2], Sean Fitzgibbon[3], Judit Ciarrusta[1,2], Sunniva Fenn-Moltu[1,2], Ralica Dimitrova[1,2], Oliver Gale-Grant[1,2], Lucilio Cordero-Grande[2,4], Anthony Price[2], Emer Hughes[2], Jonathan O'Muircheartaigh[1,2], Eugene Duff[3], Serena Counsell[2], Joseph Hajnal[2], Tomoki Arichi[2], Grainne McAlonan[1], A David Edwards[2], Dafnis Batalle[1]
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2403 BATS: the BOston ASL Template and Simulator – development and initial evaluation

Manuel Taso[1], Fanny Munsch[1], David Alsop[1]
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2404 Transfer learning of fMRI dynamics: learning representation of multiple disorders

Md Mahfuzur Rahman[1], Usman Mahmood[1], Alex Fedorov[2], Noah Lewis[2], Zening Fu[1], Vince Calhoun[3], Sergey Plis[1]
[1]*Georgia State University, Atlanta, GA,* [2]*Georgia Institute of Technology, Atlanta, GA,* [3]*GSU/GATech/Emory, Atlanta, GA*

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2405 Putting pipeline implementation-related variation into perspective for functional connectomics

Michael Milham[1,2], Lei Ai[1], Xinhui Li[1], Steve Giavasis[1], Hecheng Jin[1], Alexandre Franco[1], Joshua Vogelstein[3], Cameron Craddock[4], Ting Xu[1], Oscar Esteban[5], Russell Poldrack[6], Theodore Satterthwaite[7]
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2408 Quasi-periodic patterns and BOLD response entrained by visual stimulation in the human brain

Nan Xu[1], Derek Smith[2], George Jeno[3], Dolly Seeburger[3], Eric Schumacher[3], Shella Keilholz[1]
[1]*Emory University/Georgia Institute of Technology, Atlanta, GA,* [2]*Northwestern University, Evanston, IL,* [3]*Georgia Institute of Technology, Atlanta, GA*

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2409 Functional connectivity correlates of autobiographical memory during childhood

Antoine Bouyeure[1], Clément Poiret[1], Clara Champy[1], Sandesh Patil[1], Marion Noulhiane[1]
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2410 Improving functional MRI using advanced multiband multi-echo EPI

Yang Wang[1], Alexander Cohen[1]
[1]*Medical College of Wisconsin, Milwaukee, WI*

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2411 A comparison of VBM pipelines

Georgios Antonopoulos[1], Felix Hoffstaedter[2], Federico Raimondo[3], Simon Eickhoff[2], Kaustubh R. Patil[2]
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2412 Multiple ways to process multi-echo FMRI data with AFNI

Paul Taylor[1], Stephen Gotts[2], Adrian Gilmore[2], Daniel Glen[2], Richard Reynolds[2]
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2413 MRS Study of Sertraline Administration in Comparison with Cognitive Behavior Therapy in GAD Patients

Hossein Mohammadi[1], Nader Riyahi Alam*[2,3], Nasim Dadashi[4], Vahid Changizi[5]

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2414 A Predictive Model of Socio-Affective Traits from Neural Synchrony During Movie Viewing

Josefa Equita[1], Emily Finn[1]

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2415 Comparison of functional parcellation embedding quality on resting-state fMRI in heterogeneous data

Desiree Lussier[1], AmanPreet Badhwar[2], Amal Boukhdhir[1], Francois Paugam[3], Hanad Shamarke[1], Simon Duchesne[4], Pierre Bellec[5]

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2416 Baseline posterior cingulate cortical responses to pain catastrophizing predict cognitive behavioral

JEUNGCHAN LEE[1], Michael Berry[1], Laura Isaro[2], Asimina Lazaridou[2], Myrella Paschali[2], Arvina Grahl[1], Marco Loggia[1], Ajay Wasan[3], Robert Edwards[2], Vitaly Napadow[1]

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2417 Sulcal Depth in Lateral Prefrontal Cortex Predicts Working Memory in Childhood

Jewelia Yao[1], Willa Voorhies[1], Jacob Miller[1], Silvia Bunge[1], Kevin Weiner[1]

[1]University of California, Berkeley, Berkeley, CA

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2418 Vascular risk factors in early adulthood associated with subsequent brain structure & cognition

Rowina Hussainali[1], Sander Lamballais[1], Sarah Schalekamp-Timmermans[1], Jeanine Roeters van Lennep[1], Annemarie Luik[1], Eric Steegers[1], Mohammad Ikram[1]

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2419 Verifying Ontological Knowledge Through Meta-Analysis: Study Cases of Pain and Consciousness

Gaston Zanitti[1], Valentin Iovene[1], Demian Wassermann[1]

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2420 Traveling waves within beta bursts in the human motor cortex

Catharina Zich[1], Andrew Quinn[2], Gareth Barnes[3], James Bonaiuto[4], Nick Ward[5], Sven Bestmann[6]

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2421 Investigating sound content in the early visual cortex of aphantasia participants

Belén María Montabes de la Cruz[1], Clement Abbatecola[1], Johanna Bergmann[2], Petra Vetter[3], Lucy Petro[1], Lars Muckli[1]

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2422 Self- and other-regarding reinforcement learning in PTSD with and without comorbid depression

Shengchuang Feng[1], George Christopoulos[2], Julia Julien[1], Brooks King-Casas[1], Pearl Chiu[1]

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2423 Resting state motor network connectivity using electroencephalography and calibrated fMRI

Wanyong Shin[1], Balu Krishnan[1], Ajay Nemani[1], Mark Lowe[1]

[1]Cleveland Clinic, Cleveland, OH

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2424 White Matter Signal Abnormalities in Aging And Alzheimer's Disease Using An "Agnostic" Parcellation

Barnaly Rashid[1], David Salat[1], Steven Arnold[1], The ADNI[2]

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2425 Patterns of subject-level variance in structural and functional brain connectivity

Mark Nelson[1], Jessica Royer[1], Hyerang Jin[1], Shahin Tavakol[1], Reinder Vos de Wael[1], Raul Rodríguez-Cruces[1], Ilana Leppert[1], Jennifer Campbell[1], G. Bruce Pike[2], Misic Bratislav[1], Boris Bernhardt[1], Christine Tardif[1]

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2426 Measuring associations between periadolescent hippocampal volume and relational memory

Jennifer Sexton[1], Connor Phipps[1], Lillian Behm[1], Thomas DeCesare[1], Abi Heller[1], Arthur Maerlender[2], Vaishali Phatak[1], Justin Cramer[1], James Blair[3], Daniel Murman[1], David Warren[1]

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2427 BIDS Specification Terms: A Controlled Vocabulary for the Brain Imaging Data Structure

Nazek Queder[1], Karl Helmer[2,3], Theo Van Erp[1], Jean-Baptiste Poline[4], Satrajit Ghosh[5], Jeffrey Grethe[6], Sanu Ann Abraham[5], David Keator[1]

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2428 Altered white matter integrity related to adverse events in childhood and adolescence

Andrea Rodriguez[1], Helen Petropoulos[2], Tony Wilson[3], Yu-Ping Wang[4], Vince Calhoun[5], Julia Stephen[1]

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2429 Brain age prediction using Deep Learning on 16,092 Healthy MRIs across Lifespan

Sheng He[1], Diana Pereira[1], Juan Perez[1], Randy Gollub[2], Shawn Murphy[2], Sanjay Prabhu[1], Rudolph Pienaar[1], Richard Robertson[1], Ellen Grant[1], Yangming Ou[1]

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2430 Multimodal evidence that pupillary responses are useful for examining aging in the locus coeruleus

Elizabeth Riley[1], Hamid Turker[1], Khena Swallow[1], Adam Anderson[1], Eve De Rosa[1]

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2431 BrainStat: a Python/MATLAB toolbox for statistical analyses and neuroscientific contextualization

Reinder Vos de Wael[1], Şeyma Bayrak[2], Oualid Benkarim[1], Sara Larivière[1], Raul Rodríguez-Cruces[1], Peer Herholz[1], Seok-Jun Hong[3], Ross Markello[1], Bratislav Misic[1], Alan Evans[1], Sofie Valk[2,4], Boris Bernhardt[1]

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2432 The Configurable Pipeline for the Analysis of Connectomes (C-PAC) 2020-21: Transitioning Out of Beta

Steve Giavasis[1], Jon Clucas[1], Xinhui Li[1], Hecheng Jin[1], Lei Ai[1], Anibal Solon Heinsfeld[2], Cameron Craddock[2], Michael Milham[1]

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2433 Hippocampal connectivity during acute psychosocial stress using interleaved resting state epochs

Philipp Sämann[1], Immanuel Elbau[2], Michael Czisch[2]

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2434 Generation and validation of a structural covariance-driven human grey matter atlas

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2435 Decoupling between global brain signal and cerebrospinal fluid flow is linked to Alzheimer's disease

Feng Han[1], Jing Chen[1], Aaron Belkin-Rosen[1], Yameng Gu[1], Liying Luo[1], Orfeu Buxton[1], Xiao Liu[1]

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2436 Accurate Prediction of Fetal Brain Age using Multi-View Slices from Structural MRI

HyukJin Yun[1], Jinwoo Hong[2], Lana Vasung[1], Jong-Min Lee[2], Ellen Grant[1], Kiho Im[1]

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2437 Intra-individual structural covariance networks in Anorexia Nervosa: a longitudinal investigation

Francesco Alberti[1], Enrico Collantoni[1], Valentina Meregalli[1], Elena Tenconi[1], Paolo Meneguzzo[1], Beate Herpertz-Dahlmann[2], Jochen Seitz[2], Angela Favaro[1]

[1]University of Padua, Padua, Padua, [2]RWTH Aachen University, Aachen, Aachen

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2438 Memory-related fMRI activations and deactivations as a potential biomarker for neurocognitive aging

Joram Soch[1,2], Anni Richter[3], Jasmin Kizilirmak[1], Björn Schott[1,3,4,5]

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2439 Investigating grey matter perfusion in relation to damage and disability in multiple sclerosis

Anna Digiovanni[1,2], Daniele Mascali[1], Antonio Chiarelli[1], Emma Biondetti[1], Ilona Lipp[3,4], Valeria Pozzilli[2], Valentina Tomassini[1,2,4], Richard Wise[1,4]

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2440 Federating the future of neuroimaging via secure and privacy-preserving analysis in COINSTAC

Kelly Rootes-Murdy[1], Harshvardhan Gazula[2], Anand Sarwate[2], Sergey Plis[1], Jessica A. Turner[3], Vince Calhoun[4]

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2441 Unfolding age-related measures of distinct hippocampal surface area and thickness

Roy Haast[1], Jordan DeKraker[1], Bradley Karat[1], Mohamed Yousif[1], Ali Khan[1]

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2442 Recent Onset Depression and Recent Onset Psychosis: a Semi-Supervised Machine Learning Approach

Paris Alexandros Lalousis[1], Stephen Wood[2], Renate Reniers[1], Lianne Schmaal[3], Dominic Dwyer[4], Raimo Salokangas[5], Christos Pantelis[6], Eva Meisenzahl[7], Paolo Brambilla[8], Stefan Borgwardt[9], Rebekka Lencer[9], Nikolaos Koutsouleris[10], Rachel Upthegrove[1]

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2443 Spontaneous global brain events marked by sequenced cascades of spiking neurons

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2444 Characterization of an Orthography Effect: Lesion Symptom Mapping in Persons with Aphasia

Joseph Posner[1], Andrew DeMarco[1], Mackenzie Fama[2], Candace van der Stelt[1], Elizabeth Lacey[1], Sarah Snider[1], Peter Turkeltaub[1], Rhonda Friedman[1]

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2445 Resting-state individual variability in autism: insights from a pilot clinical rTMS trial

Iska Moxon-Emre[1], Zafiris Daskalakis[1], Daniel Blumberger[1], Paul Croarkin[2], Vinh Tan[1], Colin Hawco[1], Erin Dickie[1], Lindsay Oliver[1], Rachael Lyon[1], Meng-Chuan Lai[1], Pushpal Desarkar[1], Peter Szatmari[1], Stephanie Ameis[1]

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2446 Characterizing the functional connectome heterogeneity in autism

Iva Ilioska[1,2], Marianne Oldehinkel[1], Alberto Llera[1], Andre Marquand[1], Christian Beckmann[1,3], Alex Fornito[2], Jan Buitelaar[1,4]

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2447 Transfer-learning U-Net Brain Extraction Tool (DeepBet) on Non-human Primates

Xindi Wang[1], Xinhui Li[2], Jae Wook Cho[2], Brian Russ[3], Nanditha Rajamani[2], Alisa Omelchenko[2], Lei Ai[2], Annachiara Korchmaros[2], Pamela Garcia-Saldivar[4], Zheng Wang[5], Ned Kalin[6], Charles Schroeder[7], Cameron Craddock[8], Andrew Fox[9], Alan Evans[10], Adam Messinger[11], Michael Milham[2], Ting Xu[2]

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2448 Dynamic inter-system communication in temporal lobe epilepsy during complex language processing

Shilpi Modi[1], Xiaosong He[2], Kapil Chaudhary[1], Walter Hinds[1], Ashithkumar Beloor-Suresh[1], Michael Sperling[1], Joseph Tracy[1]

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2449 Deep attention model for local detection of artefacts on brain structural MRI scans

Melanie Garcia[1], Clare Kelly[2]

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2450 A Touch of Fear & a Shade of Anger: EmoDet, a Paradigm to Assess Emotional Ambiguity in the Brain

Ina Thome[1], José García Alanis[2], Malte Güth[3], Isabell Debus[1], Andreas Jansen[1]

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2451 Differences in Quasi-Periodic Patterns in Resting State fMRI in Alzheimer's Disease

Harrison Watters[1], Eric Maltbie[1], Shella Keilholz[2]
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2452 NiBabies: A robust preprocessing workflow tailored for neonate and infant MRI

Mathias Goncalves[1], Christopher Markiewicz[1], Martin Styner[2], Lucille Moore[3], Kathy Snider[3], Eric Earl[3], Christopher Smyser[4], Lilla Zollei[5], Russell Poldrack[1], Oscar Esteban[6], Eric Feczko[7], Damien Fair[7]
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2453 Real-time motion monitoring using FIRMM reduces infant head motion during fMRI scanning

Carolina Badke D'Andrea[1], Jeanette Kenley[1], Eric Earl[2], Amy Mirro[1], Ryland Miller[1], Damien Fair[3], Nico Dosenbach[1], Cynthia Rogers[1], Christopher Smyser[1], Deanna Greene[4]
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2454 Atypical Organization of Motor Cortex in Ipsilesional Hemisphere Following Poststroke Motor Recovery

Layla Gould[1], Shaylyn Kress[1], Josh Neudorf[1], Katherine Gibb[1], Amit Persad[1], Kotoo Meguro[1], Jonathan Norton[1], Ron Borowsky[1]
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2455 Altered inter-regional similarity in BOLD variability traces functional integration in aging

Giulia Baracchini[1], Laetitia Mwilambwe-Tshilobo[1], Roni Setton[1], Amber Lockrow[1], Gary Turner[2], Nathan Spreng[1]
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2456 Do we care about FreeSurfer version and do we really need T2w images?

Giulia Debiasi[1], Ilaria Mazzonetto[1], Alessandra Bertoldo[1,2]
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2457 Effects of Anesthesia on Spatial Global Signal Distribution in Rat rs-fMRI

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2460 Advanced Diffusion-Weighted MRI Sensitively Detects Sex and Age Effects in the Corpus Callosum

Katherine Lawrence[1], Leila Nabulsi[1], Vigneshwaran Santhalingam[1], Zvart Abaryan[2], Julio Villalon-Reina[1], Talia Nir[3], Iyad Ba Gari[1], Alyssa Zhu[1], Elizabeth Haddad[1], Alexandra Muir[1], Emily Laltoo[1], Neda Jahanshad[4], Paul Thompson[5]
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2461 Regional Amyloid and Tau PET Associations with Cortical Diffusion MRI Microstructural Measures

Talia Nir[1], Julio Villalon-Reina[1], Elizabeth Haddad[1], Hong Zheng[1], Sophia Thomopoulos[1], Piyush Maiti[1], Alyssa Zhu[1], Paul Thompson[1], Neda Jahanshad[1]
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2462 Trajectories of Brain Structure and Function in Subjective Cognitive Decline and Healthy Aging

Raymond Viviano[1], Jessica Damoiseaux[1]
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2463 Topographical representation of sound frequency and amplitude modulation rate in the auditory cortex

Shahin Safazadeh[1], Marc Thioux[2], Gijs Hoskam[1], Remco Renken[1], Pim van Dijk[2]
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2464 The neural dynamics of affective valence processing in a full-length feature film

Clare Grall[1], Emily Finn[2]
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2465 Measuring associations between periadolescent memory ability and hippocampal functional connectivity

Lillian Behm[1], Connor Phipps[1], Jennifer Sexton[1], Thomas DeCesare[1], Abi Heller[1], Arthur Maerlender[2], Vaishali Phatak[1], Justin Cramer[1], James Blair[3], Daniel Murman[1], David Warren[1]
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2466 Neural Sources of Visual Word Form Processing Revealed by Steady-State Visual Evoked Potentials

Fang Wang[1], Blair Kaneshiro[1], Lindsey Hasak[1], Benjamin Strauber[1], Quynh Trang Nguyen[1], Anthony Norcia[2], Bruce McCandliss[3]

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2467 Reliability of Graph Measures Derived from Resting-State MEG in the Sensor and Source Spaces

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2468 Imagination and Memory: How the Brain Monitors Reality

Thomas Pietruszewski[1], Heather Kleider-Offutt[1], Jessica A. Turner[2]

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2469 Variability in the genetic bases of white matter microstructure and cell-type associations in aging

Rowena Chin[1], Kevin Anderson[2], Anastasia Yendiki[3], Avram Holmes[4]

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2470 The neural network supporting natural and socially meaningful voice-identity processing

Claudia Roswandowitz[1], Thayabaran Kathiresan[2], Volker Dellwo[3], Sascha Frühholz[4]

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2471 Flaws in data binning for population receptive field analyses

Susanne Stoll[1], Elisa Infanti[1], Benjamin de Haas[2], D. Samuel Schwarzkopf[1,3]

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2472 Pain-associated neurodevelopment and structure-function relationships in premature and term infants

Marianne Aspbury[1,2], Luke Baxter[1,2], Roser Sala-Llonch[3], Eugene Duff[1,2], Rebeccah Slater[1,2]

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2476 White-matter integrity and working memory: Relationships to aging and dopamine-related genes

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2477 Nonlinear normative regression models reveal cortical growth deviations led by preterm birth

Mitchell Lee[1], Mengting Liu[2], Anthony James Barkovich[3], Duan Xu[4], Hosung Kim[5]

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2478 Image Synthesis in Multi-Contrast MRI using Wasserstein Cycle-Consistent Adversarial Network

Ming Chen[1,2], Hailong Li[1,3], Jinghua Wang[4], Jonathan Dillman[1,3,5], Andrew Trout[3,5], Jean Tkach[3,5], Stephanie Merhar[6,7], Nehal Parikh[6,7], Lili He[1,3,5]

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2479 A study of fetal resting-state networks in the developmental Human Connectome Project (dHCP)

Vyacheslav Karolis[1,2], Sean Fitzgibbon[1], Lucilio Cordero-Grande[3,4], Maximilian Pietsch[5], Anthony Price[4], Emer Hughes[4], Seyedeh-Rezvan Farahibozorg[1], Ahmed Fetit[6], Jonathan O'Muircheartaigh[5], Tomoki Arichi[2], Daniel Rueckert[6], Joseph V. Hajnal[4], David Edwards[2], Stephen Smith[1], Eugene Duff[1]

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2480 Multivariate Analysis of Cortical Morphometry across Human Brain Development

Hadis Kalantar Hormozi[1,2], Gabriel Devenyi[1,3], Raihaan Patel[1,4], Armin Raznahan[5], Mallar Chakravarty[1,2,3,4]

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2481 Abnormal cortical development in a cardiac-specific mouse model of hypoplastic left heart syndrome

Anum Rahman[1,2], Yohan Yee[1,2], Taylor DeYoung[1], Ethan Mah[1], Lisa Gazdzinski[1], John Sled[1,2]

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2482 Physiopy/phys2bids v2.3.3: BIDS formatting of physiological recordings

François Lespinasse[1], Stefano Moia[2], Katherine Bottenhorn[3], Daniel Alcala[4], Apoorva Ayyagari[5], Molly Bright[6], César Caballero-Gaudes[2], Inés Chavarria[4], Vicente Ferrer[4], Soichi Hayashi[7], Vittorio Iacovella[8], Ross Markello[9], Robert Oostenveld[10], Taylor Salo[3], Rachael Stickland[6], Eneko Uruñuela[2], Merel Van Der Thiel[11], Kristina Zvolanek[6], The physiopy contributors phys2bids[12]

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2483 Resting-state fMRI Connectivity of Emotion Regulation Circuits in Schizophrenia

Daniel Brown[1]

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2484 Test-retest reliability of cloud-based neuroimaging processing via brainlife.io

Brad Caron[1], Soichi Hayashi[1], Brent McPherson[1], Daniel Bullock[1], Josh Faskowitz[1], Taylor Zuidema[1], Ricardo Stuck[1], Franco Pestilli[2]

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2485 Employing simultaneous (EEG-)PET-MRI to map arousal-induced hemodynamic and metabolic dynamics

Jingyuan Chen[1,2], Ciprian Catana[1,2], Jonathan Polimeni[1,2], Nina Fultz[3], Kyle Droppa[1], Hsiao-Ying Wey[1,2], Julie Price[1,2], Bruce Rosen[1,2], Laura Lewis[3], Christin Sander[1,2]

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2486 Adolescent longitudinal development of cortical thickness, surface area, volume, and gyrification

Lea Backhausen[1,2], Hervé LeMaitre[3], Jonas Granzow[1], Juliane Fröhner[2], Jean-Luc Martinot[4], Michael N. Smolka[2], Nora Vetter[1,2]

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2488 Associations Between Cognitive Ability and Neural Flexibility

Weiyan Yin[1], Tengfei Li[1], Ziliang Zhu[1], Zhen Zhou[1], Gang Li[1], Brittany Howell[2], Martin Styner[1], Essa Yacoub[3], Heather Hazlett[1], John Gilmore[1], Joseph Piven[1], Keith Smith[1], Kamil Ugurbil[3], Jed Elison[3], Li Wang[1], Han Zhang[1], Weili Lin[1]

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2489 Longitudinal Seed-Based Connectivity Analysis in Patients with Ischemic and Hemorrhagic Stroke

Seth Boren[1], Muhammad Haque[1], Timothy Ellmore[2], Sarah George[1], Jaroslaw Aronowski[1], Sean Savitz[1]

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2490 Graph Theory Analysis of Structural Connectivity Reveals Altered Network Topology in HIV Infection

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2491 Online Optimization of Closed-Loop tACS-fMRI Stimulation to Enhance Fronto-parietal Connectivity

Beni Mulyana[1,2], Aki Tsuchiyagaito[1], Jared Smith[1], Masaya Misaki[1], Samuel Cheng[2], Martin Paulus[1], Hamed Ekhtiari[1], Jerzy Bodurka[1,3]

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2492 Shinobi in the scanner: Development and validation of an fMRI/MEG controller and gaming platform

Andre Cyr[1], Yann Harel[2], Basile Pinsard[1], Paul-Henri Mignot[1], Julie Boyle[1], Maximilien Le Cleï[2], Karim Jerbi[2], Pierre Bellec[2]

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2493 Whole-brain propagating patterns in human resting-state brain activities

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2495 Expanding the Nilearn vision: Machine learning and statistics for fMRI in Python

Bertrand Thirion[1], Elizabeth DuPre[2], Jérôme Dockès[2], Gaël Varoquaux[3], Thomas Bazeille[4], Taylor Salo[5], Nicolas Gensollen[6], Alexandre Gramfort[7], Julia Huntenburg[8], Christopher Markiewicz[9], Kshitij Chawla[4], Jerome-Alexis Chevalier[4], Kamalaker Dado[10], Daniel Gomez[11], Eric Larson[12], Robert Luke[13], Ana Luísa Pinho[7], Sylvain Takerkart[14]
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2496 Cognition Alterations in Asymptomatic Midlife Individuals at Increased Risk of Dementia

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2498 Hippunfold: BIDS App for hippocampal unfolding, subfield segmentation, and surface-based analysis

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2499 Decoupling of global brain signal and cerebrospinal fluid flow marks Parkinson's cognitive decline

Feng Han[1], Gregory Brown[1], Yalin Zhu[1], Aaron Belkin-Rosen[1], Mechelle Lewis[2], Guangwei Du[2], Yameng Gu[1], Paul Eslinger[2], Richard Mailman[3], Xuemei Huang[2], Xiao Liu[1]
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2501 Self-supervised multi-modal representation learning: An application to Alzheimer's disease

Alex Fedorov[1], Lei Wu[2], Thomas DeRamus[2], Sergey Plis[3], Vince Calhoun[4]
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2503 Neural-Behavioral Correlates of Patient-Clinician Relationships: a Longitudinal fMRI Hyperscan Study

Arvina Grahl[1], Alessandra Anzolin[1], Kylie Isenburg[1], Jeungchan Lee[1], Maya Barton-Zuckerman[1], Dan-Mikael Ellingsen[2], Changjin Jung[3], Jessica Gerber[1], John Kelley[4], Irving Kirsch[5], Ted Kaptchuk[5], Vitaly Napadow[1]
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2504 Designs of resting ASL analyses in pharmacologic studies

Fanny Munsch[1], Manuel Taso[1], David Alsop[1]
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2505 Multimodal neural correlates of childhood psychopathology

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2506 White matter alterations in glaucoma and monocular blindness differ outside the visual system

Sandra Hanekamp[1], Branislava Ćurčić-Blake[2], Brad Caron[3], Brent McPherson[3], Anneleen Timmer[2], Doety Prins[2], Christine Boucard[4], Masaki Yoshida[4], Masahiro Ida[5], David Hunt[3], Nomdo Jansonius[2], Franco Pestilli[1], Frans Cornelissen[2]
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2507 Increased brain-heart connectivity during compassion meditation

Hang Kin Leung[1], Junling GAO[2], Hin Hung Sik[3], Bonnie Wai Yan Wu[1]
[1]*The University of Hong Kong, Hong Kong, HK,* [2]*The University of Hong Kong, Hong Kong, HI,* [3]*The University of Hong Kong, Hong Kong, AK*

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2508 MIITRA gray matter labels: Development and evaluation

Mohammad Rakeen Niaz[1], Yingjuan Wu[1], ABDUR RAQUIB RIDWAN[1], Xiaoxiao Qi[1], David Bennett[2], Konstantinos Arfanakis[1,2]
[1]*Illinois Institute of Technology, Chicago, IL,* [2]*Rush University Medical Center, Chicago, IL*

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2509 Optimizing Modulation Frequency for Frequency Domain High-Density Diffuse Optical Tomography

Weihao Fan[1], Hamid Dehghani[2], Adam Eggebrecht[3]
[1]*Washington University in St. Louis, St. Louis, MO,* [2]*University of Birmingham, Birmingham, Birmingham,* [3]*Washington University School of Medicine, Saint Louis, MO*

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2510 A Comparison of Human and AI Emotion Inference in Naturalistic Social Environments

Marianne Reddan[1], Desmond Ong[2], Jamil Zaki[1]
[1]*Stanford University, Stanford, CA,* [2]*National University of Singapore, Singapore, Singapore*

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2511 Ground-truth resting-state fMRI provides data-driven estimation and correction of scanner distortion

Rajat Kumar[1], Liang Tan[2], Alan Kriegstein[2], Andrew Lithen[1], Jonathan Polimeni[3], Lilianne Mujica-Parodi[1,3], Helmut Strey[1]
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2512 Getting the Nod: Characterizing pediatric head motion in movie- and resting-state fMRI

Simon Frew[1], Ahmad Samara[2], Hallee Shearer[2], Jeffrey Eilbott[3], Tamara Vanderwal[2]
[1]*University of Waterloo, Waterloo, Ontario,* [2]*University of British Columbia, Vancouver, British Columbia,* [3]*BC Children's Hospital Research Institute, Vancouver, British Columbia*

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2513 Neural differences in social and figurative language processing on the autism spectrum

William Graves[1], Hillary Levinson[1], Linsah Coulanges[2], Shannon Cahalan[1], Daniel Cruz[3], Vanessa Bal[4], Miriam Rosenberg-Lee[1]
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2514 Snakebids: introducing Snakemake to the neuroimaging community

Ali Khan[1], Roy Haast[1]
[1]*Western University, London, Ontario*

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2515 Patient-clinician inter-brain synchronization during evoked pain: an EEG hyperscanning study

Alessandra Anzolin[1], Arvina Grahl[2], Kylie Isenburg[3], Jlenia Toppi[4], Angela Ciaramidaro[5], Maya Barton-Zuckerman[2], Meryem Yucel[6], Dan-Mikael Ellingsen[7], Ted Kaptchuk[8], Laura Astolfi[4], Vitaly Napadow[9]
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2516 Network Dynamics during Speech Production

Kshipra Gurunandan[1], Manuel Carreiras[1], Pedro Paz-Alonso[1]
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2518 Altered cortical thickness development in 22q11DS and association with psychotic symptoms

Joelle Bagautdinova[1], Daniela Zöller[2], Marie Schaer[1], Maria Carmela Padula[1], Valentina Mancini[1], Maude Schneider[1], Stephan Eliez[1]
[1]*University of Geneva, Geneva, Switzerland,* [2]*University of Tübingen, Tübingen, Germany*

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2519 Neural Correlates of Learning Strategies in Non-generalizable Multi-dimensional Environments

Sharif Saleki[1], Shiva Farashahi[2,1], Alireza Soltani[1]
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2520 Hippocampus Diffusivity Abnormalities in Classic Trigeminal Neuralgia

Shaun Hanycz[1], Alborz Noorani[2], Peter Shih-Ping Hung[2], Ashley Bo Zhang[3], Mojgan Hodaie[3]
[1]*University of Ottawa, Ottawa, Ontario,* [2]*University of Toronto, Toronto, Ontario,* [3]*Krembil Research Institute, Toronto, Ontario*

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2521 Cardiac Gated Multiecho fMRI Analysis Methods Comparison

Tara Maronesy[1], Christine Sze Wan Law[2], Sean Mackey[2], Gary Glover[2]
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2522 Finger-tapping task fMRI reliability in a healthy population

Florian Wüthrich[1], Stéphanie Lefebvre[1], Niluja Nadesalingam[1], Sebastian Walther[1]
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2523 Empathy Relies on Fine-Grained Internal Simulation

Leo Christov-Moore[1], Jonas Kaplan[1]
[1]*University of Southern California, Los Angeles, CA*

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2524 Neural responses of illusory surface brightness perception at 7T fMRI

Yawen Wang[1], Sriranga Kashyap[1], Minye Zhan[2], Mark Roberts[1], Peter De Weerd[1]
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2525 A single, clinically relevant dose of baclofen significantly impairs motor sequence learning

Ioana Grigoras[1], Elias Geist[2], Sebastian Green[1], William Clarke[1], Uzay Emir[3], Caroline Nettekoven[1], Ainslie Johnstone[1], Charlotte Stagg[1]
[1]*University of Oxford, Oxford, UK,* [2]*University of Columbia, USA,* [3]*University of Purdue, West Lafayette, IN*

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2526 Multi-Site MRI Harmonization using Unified Generative Adversarial Networks

Mengting Liu[1], Piyush Maiti[1], Sophia Thomopoulos[1], Nadia Kadakova[1], Hosung Kim[1], Neda Jahanshad[1]

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2527 A Validation Study of the Bayesian GLM using the Human Connectome Project Data

Daniel Spencer[1], Amanda Mejia[1]

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2528 Functional reconfigurations of brain network hubs across arousal levels

Kangjoo Lee[1], Corey Horien[2], Bronwen Garand-Sheridan[3], Fuyuze Tokoglu[1], David O'Conner[4], Evelyn Lake[1], Dustin Scheinost[1,5], Ian Quinn[3], R. Todd Constable[1,4,6]

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2529 Probabilistic Logic for Coordinate-Based Meta-Analysis of Functional Segregation in the Brain

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2530 Micapipe: a BIDS compatible processing pipeline for multiscale imaging and connectome analysis

Raúl Rodríguez-Cruces[1], Jessica Royer[1], Peer Herholz[2], Sara Larivière[1], Reinder Vos de Wael[1], Casey Paquola[1], Oualid Benkarim[1], Bo-yong Park[1], Janie Degré-Pelletier[3], Luis Concha[4], Boris Bernhardt[1]

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2531 White matter and cerebrospinal fluid show correlates of naturalistic emotions during fMRI

Benjamin Gold[1], Catie Chang[2]

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2532 Classification of HIV Associated Neurocognitive Disorders Using Fiber Specific White Matter Changes

Alan Finkelstein[1], Abrar Faiyaz[1], Md Nasir Uddin[1], Jianhui Zhong[1], Giovanni Schifitto[1]

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2533 Structure-function network couplings of ADHD inattentive type and combined type

Dongha Lee[1], Hyunjoo Song[2], Chongwon Pae[3], Saebyul Lee[3], Tak Youn[4], Hae-Jeong Park[3]

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2536 Evolvement of Infant Brain State and Its Association with Cognition

Weixiong Jiang[1], Zhen Zhou[1], Ziliang Zhu[2], Weiyan Yin[1], Gang Li[1,3], Brittany Howell[4], Martin Styner[5], Essa Yacoub[6], Heather Hazlett[5], John Gilmore[5], Joseph Piven[5], Keith Smith[3], Kamil Ugurbil[6], Jed Elison[7], Li Wang[1,3], Han Zhang[1], Weili Lin[1,3]

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2537 Adolescent Brain Cognitive Development (ABCD) Community MRI Collection and Utilities

Eric Feczko[1], Greg Conan[1], Scott Marek[2], Brenden Tervo-Clemmens[3], Michaela Cordova[4], Olivia Doyle[4], Eric Earl[4], Anders Perrone[4], Gareth Harman[5], Dakota Kilamovich[5], Robert Hermosillo[1], Oscar Miranda-Dominguez[1], Anthony Juliano[6], Kathy Snider[7], Lucille Moore[8], Alice Graham[8], Finnegan Calabro[9], Monica Rosenberg[10], Kristina Rapuano[11], BJ Casey[11], Richard Watts[11], Wesley Thompson[12], Thomas Nichols[13], Elizabeth Hoffman[14], Beatriz Luna[9], Hugh Garavan[15], Sarah Feldstein-Ewing[16], Bonnie Nagel[5], Nico Dosenbach[2], Damien Fair[1]

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2538 Dynamic brain organization underlying temporal summation of pain in fibromyalgia

Joshua Cheng[1], Alessandra Anzolin[2], Michael Berry[2], Hamed Honari[3], Myrella Paschali[4], Asimina Lazaridou[4], Jeungchan Lee[2], Arvina Grahl[2], Martin Lindquist[5], Robert Edwards[6], Vitaly Napadow[2]

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2539 Neural correlates of polygenic risk for cannabis use and cannabis use disorder

Renata Cupertino[1], Alexander Hatoum[2], Sarah Medland[3], Jonatan Ottino-Gonzalez[4], ZHIPENG CAO[1], Anthony Juliano[4], Patricia Conrod[5], Arpana Agrawal[2], Ryan Bogdan[2], Hugh Garavan[6], Scott Mackey[7]

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2540 Neuroinflammatory and functional connectivity signatures in chronic low back pain subtypes

Zeynab Alshelh[1], Ludovica Brusaferri1[1], Atreyi Saha[1], Yi Zhang[2], Erin Morrissey[1], Paulina Knight[1], Minhae Kim[1], Daniel Albrecht[1], Angel Torrado-Carvajal[1], Michael Placzek[1], Courtney Bergan[1], Oluwaseun Akeju[2], Robert Edwards[3], Marco Loggia[1], Vitaly Napadow[4]

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2541 Resting-state fMRI and machine learning algorithms on the prediction of preclinical dementia

Pedro da Silva[1], Kaio Felippe Secchinato[2], Júlia Palaretti[2], Renata Ferranti Leoni[2]

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2542 Denoising of Blood Delay Maps by Random Matrix Theory

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2543 Mapping the Magnitude of Reward Prediction Errors in a Large Sample of Young Children

Anthony Juliano[1], Sage Hahn[2], De Kang Yuan[2], Max Owens[2], ZHIPENG CAO[2], Bader Chaarani[1], Scott Mackey[3], Alexandra Potter[2], Nicholas Allgaier[2], Hugh Garavan[4]

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2545 Effects of autonomous sensory meridian response on the fMRI functional connectivity

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2546 Resting State fMRI Speech Network Connectivity in Children with and without Listening Difficulties

Julia Hoyda[1], Hannah Stewart[2], Jennifer Vannest[1], David Moore[3]

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2547 Signatures of criticality in simple models of neural timeseries

Aditya Nanda[1], Dario Englot[2], Graham Johnson[1], Mikail Rubinov[1]

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2548 Spatially distinct patterns of atrophy associated with parkinsonism and motor function in older age

Victoria Poole[1], Veronique VanderHorst[2,3], Sue Leurgans[1], Konstantinos Arfanakis[1,4], David Bennett[1], Aron Buchman[1]

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2549 Multi-Site Clustering and Nested Feature Extraction for Identifying Autism with rs-fMRI

Dongren Yao[1], Nan Wang[2], Lizhuang Ma[2], Mingxia Liu[1]

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2550 Neuromod Movie10: Standardized processing of large-scale cardiorespiratory signals in MR environment

François Lespinasse[1], Pierre Bellec[2], Pierre Rainville[3]

[1]Université de Montreal, Montreal, QC, [2]University of Montreal, Montreal, QC, [3]Université de Montréal, Montréal, Québec

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2551 Spatiotemporal functional dynamics along the cortical hierarchy in autism

Kyoungseob Byeon[1,2], Shinwon Park[2], Hyunjin Park[2,3], Seok-Jun Hong[4,5]

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2552 The Case for a Decentralized Science: Open Data Sovereignty, Distributed Cloud Resources, and Rigor

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2553 Multivariate Associations between Regional Brain Volumes and Psychopathology Dimensions in Children

E. Leighton Durham[1], Gabrielle Reimann[1], Hee Jung Jeong[1], Carlos Cardenas-Iniguez[2], Randolph Dupont[1], Xiaoyu Dong[1], Tyler Moore[3], Marc Berman[2], Benjamin Lahey[2], Antonia Kaczkurkin[1]

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2554 Linear mixed model augmented PCA reveal ongoing thought pattern associated with large scale gradient

Hao-Ting Wang[1], Bronte Mckeown[2], Will Strawson[1], Jonathan Smallwood[3]

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2555 QEEG-based Machine Learning Algorithm to Predict Cognitive Impairment After Acute Ischemic Stroke

Yuseong Hong[1], Ukeob Park[1], Seung Wan Kang[1]

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2557 A computational approach for optimal control of self-adjustment brain

Jiyoung Kang[1,2], Jinseok Eo[1,2], Dong Myeong Lee[1,2], Hae-Jeong Park[3,2]

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2558 Gibbs Sampler Based Brain Temporal Motif Detection

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2559 Freezing of gait is worsened by heightened sympathetic arousal that increases network integration

Natasha Taylor[1], Gabriel Wainstein[1], Dione Quek[1], Simon Lewis[1], James Shine[1], Kaylena Ehgoetz Martens[2]

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2561 Performance differences using Synb0-DisCo among different b-values in Diffusion Weighted MRI

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2563 Implementation of a 3D convolutional network to predict impairment of multiple sclerosis subjects

Emily Olafson[1], Ceren Tozlu[2], Keith Jamison[2], Susan Gauthier[2], Amy Kuceyeski[3]

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2564 Denoising with time-delayed regressors improves test-retest reliability of functional connectome

Timothy Wanger[1], Amy Janes[2], Blaise Frederick[2]

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2565 Laminar Representations of Vibrotactile Stimuli with Varying Frequency in S1: a 7T fMRI Study

Ji-Hyun Kim[1], Sohyun Han[2], Seulgi Eun[2], Junsuk Kim[3], Sung-Phil Kim[4]

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2566 Machine Learning Based Brain Age Prediction Model Employing QEEG Features

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2567 Brain Age Association versus Prediction: the impact of cortical surface smoothing and parcellation

Yashar Zeighami[1], Alan Evans[2]

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2568 Microvascular Changes in Psychotic Spectrum Disorders Relate to Cognition, Duration and Metabolites

Faye McKenna[1], Yu Veronica Sui[1], Pradeep Gupta[1], Hillary Bertisch[1], Donald Goff[1], Mariana Lazar[1]

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2569 Mapping autistic symptoms in the brain connectome of children with autism and ADHD

Patricia Segura[1], José Filho[1], Anish Simhal[1], Jacob Stroud[1], Jessica Cloud[2], Somer Bishop[3], So Hyun Kim[4], Catherine Lord[5], Francisco Castellanos[2,6], Stanley Colcombe[2], Michael Milham[7,2], Adriana Di Martino[1]

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2572 Relating BOLD low-frequency physiological patterns to behavioral and cognitive traits

Nafis Ahmed[1], Roza Bayrak[1], Mara Mather[2], Catie Chang[1]

[1]Vanderbilt University, Nashville, TN, [2]University of Southern California, Los Angeles, CA

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2573 Machine learning model to predict prognosis of coma patients in one month with QEEG

SeonMyeong Kim[1], Jung Hwa Lee[2], Seung Wan Kang[1]

[1]iMediSync, Seoul, Korea, Republic of, [2]Department of Neurology,Ewha Women's University Hospital,Ewha Women's University College of Medicine, Seoul, Korea, Republic of

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2574 Ischemic stroke alters temporal dynamics of brain states identified with k-means clustering

Georgia Russello[1], Emily Olafson[2], Keith Jamison[3], Hesheng Liu[4], Danhong Wang[5], Joel Bruss[6], Aaron Boes[6], Amy Kuceyeski[7]

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2575 An Open Actigraphy Resource for Associating Brain and Behavior in Pediatric Mental Health

yao xiao[1], Alexandre Franco[2], Lei Ai[2], Vadim Zipunnikov[3], Kathleen Merikangas[4], Michael Milham[2]

[1]Child Mind Institute, new york, NY, [2]Child Mind Institute, New York, NY, [3]Johns Hopkins University, Baltimore, MD, [4]National Institute of Mental Health, New York, NY

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2576 Hybrid Deep Learning Network Integrating Temporal Coherence and Dynamics for Schizophrenia Diagnosis

Min Zhao[1,2], Weizheng Yan[1,2], Rongtao Xu[2], Dongmei Zhi[1,2], Rongtao Jiang[1,2], Yujin Zhang[1,2], Tianzi Jiang[1,2], Vince Calhoun[3], Jing Sui[1,2,3]

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2578 High-density tDCS stimulation targeting the dACC improves ambiguity resolving among schizophrenia

Sai Sun[1], Shuo Wang[2], Rongjun Yu[3]

[1]Tohoku University, Sendai, Japan, [2]West Virginia University, Morgantown, WV, [3]Hong Kong Baptist University, Hong Kong, Hong Kong

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2580 Locating seed in PCC for rs-fMRI data analysis by using unsupervised machine learning

Mingyi Li[1], Katherine Koenig[1], Jian Lin[1], Mark Lowe[1]

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2581 Default Mode Network connectivity associated with concussion symptoms & age at injury in adolescents

Rachelle Ho[1], Saurabh Shaw[2], Nicholas Bock[1], Carol DeMatteo[1], Michael Noseworthy[1], Geoffrey Hall[1]

[1]McMaster University, Hamilton, Ontario, [2]University of Western Ontario, London, Ontario

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2582 Variability in Hippocampal Anteroposterior Gradient Relates to Variability in Symptoms Dimensions

Debo Dong[1,2], Jianxiao Wu[1,3], Simon Eickhoff[1,3], Ji Chen[1,3], Thomas Nickl-Jockschat[4], Birgit Derntl[5], Lydia Kogler[5], Renaud Jardri[6], Oliver Gruber[7], André Aleman[8], Iris Sommer[8], B.T. Thomas Yeo[9,10,11], Dezhong Yao[2], Cheng Luo[2], Pierre Orban[12,13], Sarah Genon[1,3]

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2584 Slow oscillations in hippocampal LFP activity in the mouse taupathy model (rTg4510) under anesthesia

Kwangyeol Baek[1], Rachel Bennett[2], Bradley Hyman[2], Woo Hyun Shim[3], Young Kim[4]

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2585 Reward Processing in Gender-Diverse Youth: The Role of Minority Stress on the Anticipation of Loss

Hannah Loso[1], Aya Cheaito[1], Bader Chaarani[2], SarahJane Dube[1], Hugh Garavan[3], Alexandra Potter[1]

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2586 Monocular deprivation shifts interocular balance in human lateral geniculate nucleus

Yazhu Qian[1], Zhouyuan Sun[1], Chencan Qian[1], Jiawei Zhou[2], Peng Zhang[1]
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2588 Altered White Matter Diffusion Propagator Indices in Carriers of 16p11.2 Copy Number Variants

Julio Villalon Reina[1], Clara Moreau[2], Talia Nir[3], Neda Jahanshad[4], Sarah Lippé[5], Anne Maillard[6], David Romascano[6], Bogdan Draganski[7], Carrie Bearden[8], Paul Thompson[9], Sebastien Jacquemont[5]
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2589 Intrinsic Brain Network Connectivity Predicts Individual Strategic Social Conformity Tendency

JuYoung Kim[1], Jinhee Kim[1], Daeeun Kim[1], Hackjin Kim[1]
[1]*Korea University, Seoul, Seoul*

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2590 Texture Analysis Reveals Cerebral Degeneration in Amyotrophic Lateral Sclerosis: A Multicentre Study

Pedram Parnianpour[1], Daniel Ta[1], Abdullah Ishaque[1], Collin Luk[1], Shang Lu[1], Sanjay Kalra[1]
[1]*University of Alberta, Edmonton, Alberta*

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2591 Machine learning to predict Stop Signal Reaction Time in the ABCD study: A preliminary report

Dekang Yuan[1], Sage Hahn[1], Nicholas Allgaier[1], Max Owens[1], Bader Chaarani[2], Alexandra Potter[1], Hugh Garavan[3]
[1]*University of Vermont, Burlington, VT,* [2]*University of Vermont College of Medicine, Burlington, VT,* [3]*Department of Psychiatry, University of Vermont College of Medicine, Burlington, VT*

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2592 Resting-State Network Properties Reflect Adolescent Psychiatric Symptoms and Immune Activity

Benjamin Ely[1], Qi Liu[2], Danielle Pick[2], Manishkumar Patel[3], Hui Xie[3], Seunghee Kim-Schulze[3], Vilma Gabbay[4]
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2593 Machine learning to predict brain amyloid pathology in AD using QEEG feature with Genetic Algorithm

Namheon Kim[1], Dong Won Yang[2], Seong Hye Choi[3], Seung Wan Kang[1]
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2594 DTI acquisition protocols influence measured diffusivity metrics in trigeminal neuralgia

Anureet Tiwana[1], Hayden Danyluk[1], Tejas Sankar[1]
[1]*University of Alberta, Edmonton, Alberta,Canada*

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2595 Cerebello-cortical dynamic functional network connectivity alteration by brain development

Elaheh Zendehrouh[1], Mohammad Sendi[2], Sarah Clark[3], Jessica A. Turner[4]
[1]*Georgia State Univercity, Atlanta, GA,* [2]*Georgia Institute of Technology/Emory University, Atlanta, GA,* [3]*VA Palo Alto Healthcare System, Palo Alto, CA,* [4]*Tri-institutional Center for Translational Research in Neuroimaging and Data Science (TReNDS), Atlanta, GA*

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2596 Disordered network stability during associative learning in schizophrenia

Emmanuel Meram[1], Shahira Baajour[1], Asadur Chowdury[1], Jeffrey Stanley[1], Vaibhav Diwadkar[1]
[1]*Wayne State University, Detroit, MI*

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2597 Acupuncture compensated the altered FC in the pain modulation system on primary dysmenorrhea

Cheng-Hao Tu[1], Yu-Chen Lee[2], Ying-Yu Chen[3], Chun-Ming Chen[4], Wen-Chi Lu[1], Yi-Hung Chen[5], Su-Tso Yang[6]
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2598 Machine Learning-based Amyloid Pathology Screening Model Using QEEG Sensor Level Imaginary Coherence

Taegyun Jeong[1], Ukeob Park[1], Sohyeon Jeon[2], Seung Wan Kang[1]
[1]*iMediSync, Seoul, Korea, Republic of,* [2]*Department of Software Engineering, Samyuk University, Seoul, Korea, Republic of*

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2599 Traumatic brain injury and Alzheimer's disease share neurodegeneration patterns

Andrei Irimia[1], Kenneth Rostowsky[1]
[1]*University of Southern California, Los Angeles, CA*

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2600 Baseline fALFF Predicts Acute Treatment Response in First Episode Psychosis

Todd Lencz[1], Miklos Argyelan[2], Ashley Moyette[2], Michael Birnbaum[2], Juan Gallego[2], Majnu John[2], Anita Barber[2], Philip Szeszko[3], Delbert Robinson[2], Anil Malhotra[2]

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2601 Resting State Correlates of Picture Description in Left versus Right Hemisphere Chronic Stroke

Erin Meier[1], Shannon Sheppard[2], Rajani Sebastian[3], Shauna Berube[3], Emily Goldberg[4], Jennifer Shea[3], Colin Stein[3], Argye Hillis[3]

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2602 Associations between neural chemistry and self-regulatory control in anorexia and bulimia nervosa

Margaret Westwater[1], Kelly Diederen[2], Hisham Ziauddeen[3], Paul Fletcher[3]

[1]University of Cambridge, McLean, VA, [2]King's College London, London, VA, [3]University of Cambridge, Cambridge, VA

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2603 Nonlinear Functional Network Connectivity in fMRI Data

Sara Motlaghian[1], Vince Calhoun[2]

[1]TReNDS, GSU, Atlanta, GA, [2]TReNDS Center - Georgia State University, Georgia Institute of Technology, and Emory University, Atlanta, Georgia

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2604 Development of thalamocortical functional connectivity gradient in the human infant brain

Shinwon Park[1], Seok-Jun Hong[1,2,3]

[1]Center for Neuroscience Imaging Research, Institute for Basic Science, Suwon, South Korea, [2]Sungkyunkwan University, Suwon, South Korea, [3]Center for the Developing Brain, Child Mind Institute, New York, United States

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2605 Representational Similarity Between Brain and DCNNs in High-Dimensional Face Space

JIAHUI GUO[1], Ma Feilong[1], Matteo Visconti di Oleggio Castello[2], James Haxby[1], M. Ida Gobbini[3,4]

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2606 Chronic intranasal oxytocin modulates insula and dorsolateral prefrontal cortex volume in aging

Peiwei Liu[1], Tian Lin[1], Kristoffer Månsson[2,3,4], Håkan Fischer[5,6], Natalie Ebner[7]

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2607 Association Between Global Cortical Atrophy and Resting-State Oscillatory Activity

Zabecca Brinson[1], Amy Proskovec[1], Frank Yu[1], Heidi Rossetti[1], Joseph Maldjian[1], Jarrett Berry[1], Elizabeth Davenport[1]

[1]University of Texas Southwestern, Dallas, TX

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2608 3D Attention Networks for Interpretable Age and Dementia Prediction from Structural MRI

Pradeep Lam[1], Alexandra Muir[2], Alyssa Zhu[3], Sophia Thomopoulos[3], Neda Jahanshad[3], Paul Thompson[3]

[1]University of Southern California, Los Angeles, CA, [2]University of Southern California, Irvine, CA, [3]University of Southern California, Marina del Rey, CA

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2609 Comparing cortical demyelination in geriatric traumatic brain injury and Alzheimer's disease

Shania Wang[1], Nahian Chowdhury[1], Sean Mahoney[1], Andrei Irimia[1]

[1]University of Southern California, Los Angeles, CA

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2611 Effects of Parkinson's Disease on Motor and Cognitive Task-Switching Networks

Jennifer Cale[1], Tyler Reekes[2], Caroline Dacus[1], Christina Ledbetter[2], Amrita Puri[1], Karen Sigvardt[3], Elizabeth Disbrow[4]

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2613 Detailed examination reward expectancy/attainment in adolescents with diverse psychiatric symptoms

Qi Liu[1], Benjamin Ely[2], Danielle Pick[1], Vilma Gabbay[3]

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2615 NeuroHub - Advanced Data and Computational Infrastructure for Collaborative, Reproducible Research

Bryan Caron[1,2,3], Verena Schuster[1,4,3], Rida Abou-Haider[1,2,3], Natacha Beck[1,2,3], Serge Boroday[1,2,3], Samir Das[5,2,3], Alexandre Hutton[1,4,3], Diana Le[1,2,3], Xavier Lecours-Boucher[1,2,3], Melanie Legault[1,2,3], Emmet O'Brien[1,2,3], Liam O'Callaghan[1,2,3], Darcy Quesnel[1,2,3], Pierre Rioux[1,2,3], Adam Trefonides[1,3,4], Shen Wang[1,2,3], Ksenia Zaytseva[1,2,3], Shawn Brown[6], Alan Evans[7,2,8], Jean-Baptiste Poline[1,4,3]

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2616 An Adolescent Brain Cognitive Development Study adult cohort

Kristina Rapuano[1], Monica Rosenberg[2], May Conley[1], Maria Maza[1], Kylie Woodman[1], Steven Martinez[1], Richard Watts[1], BJ Casey[1]

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2617 Effective Connectivity Patterns During an Emotional Working Memory Task in Young Children

Abigail Testo[1], Anthony Juliano[2], Sage Hahn[1], De Kang Yuan[1], Max Owens[1], Bader Chaarani[2], Alexandra Potter[1], Nicholas Allgaier[1], Hugh Garavan[3]

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2618 Functional near-infrared spectroscopy in psychiatric disorders

Wu Jeong Hwang[1], Tae Young Lee[2], Minah Kim[1], Jun Soo Kwon[3]

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2619 Stability of hippocampal subfield volumes and relationship to development of PTSD symptoms

Kate Webb[1], Carissa Weis[2], Ashley Huggins[3], Maddy Kallenbach[1], Tara Miskovich[4], Ken Bennett[5], Jessica Krukowski[6], Terri deRoon-Cassini[7], Christine Larson[8]

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2620 Early protein energy malnutrition affects the sources of EEG rhythms: a 40-year longitudinal study

Maria L. Bringas-Vega[1], Jorge Bosch-Bayard[2], Lidice Galan-Garcia[3], Min Li[4], Qin Tang[5], Ana Calzada-Reyes[3], Trinidad Virues-Alba[3], Arielle Rabinowitz[6], Janina Galer[7], Pedro Valdés-Sosa[4]

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2621 Auto-regressive models of fMRI signal and their generalization across Courtois NeuroMod tasks

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2622 Topological data analysis reveals a unique hub-like transition state at rest

Manish Saggar[1], James Shine[2], Raphael Liegeois[3], Ryan Raut[4], Timothy Laumann[4], Abraham Snyder[5], Nico Dosenbach[4], Damien Fair[6]

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2623 Spatial localization of lower limb movement on whole brain using 3D-pose estimation: an fMRI study

Minji Park[1], Sungman Jo[2], Dong-Youl Kim[1], Gyoobaek Cho[1], Jihyuk Jeong[1], MinSeok Choi[1], Jong-Hwan Lee[3]

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2624 Quantitative MR Relaxometry of Brain Microstructure Alterations in Asymptomatic Alzheimer's Disease

Qixiang Lin[1], Salman Shahid[1], Antoine Hone-Blanchet[1], Shuai Huang[2], Allan Levey[1], James Lah[1], Bruce Crosson[1,2], Deqiang Qiu[2,3]

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2625 Macromolecule suppressed GABA levels show no relationship with age in youth

Tiffany Bell[1], Mehak Stokoe[1], Ashley Harris[1]

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2627 Concordance between brain temperature, extracellular free water, and dendritization in epilepsy

Ayushe Sharma[1], Rodolphe Nenert[2], Adam Goodman[2], Jerzy Szaflarski[2]
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2628 Anomaly Detection in Large-scale Multimodal Neuroimaging Studies

Zhiwei Ma[1], Daniel Reich[1], Sarah Dembling[1], Jeff Duyn[1], Alan Koretsky[1]
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2630 Multisite Test-Retest Reliability and Compatibility of FreeSurfer Versions 5.3, 6.0, and 7.1

Elizabeth Haddad[1], Fabrizio Pizzagalli[1], Alyssa Zhu[1], Daniel Dixon[1], Tasfiya Islam[1], Paul Thompson[2], Neda Jahanshad[1]
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2632 Layer-dependent amblyopic deficits in feedforward and lateral processing in human early visual cortex

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2633 Metabolic and functional brain changes in REM sleep behavior disorder with mild cognitive impairment

Eun Jin Yoon[1], Jee-Young Lee[1], Heejung Kim[1], Sang Jeong Kim[1], Yu Kyeong Kim[1]
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2634 Static and Dynamic analysis of brain networks related to cognitive impairment in Parkinson's disease

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2636 Multimodal brain-heart analysis reveals subject-specific dynamics during propofol anesthesia

Bryan Tseng[1], Sandya Subramanian[1], Patrick Purdon[2], Riccardo Barbieri[3], Emery Brown[1]
[1]Massachusetts Institute of Technology, Cambridge, MA, [2]Massachusetts General Hospital, Boston, MA, [3]Politecnico Di Milano, Milan, Milan

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2637 Sex differences in functional correlation of the default mode network after traumatic brain injury

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2638 CCNet: A U-Net for reliably extracting the midsagittal corpus callosum from MRI across the lifespan

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2639 Effects of Connectivity Hyperalignment (CHA) on Global and Local Graph-theoretical Properties

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2640 Functional correlation tensors detect WM functional motor learning

Tory Frizzell[1], Elisha Phull[2], Mishaa Khan[3], Xiaowei Song[4], Jodie Gawryluk[5], Ryan D'Arcy[6]
[1]Simon Fraser University, Burnaby, British Columbia, [2]SFU, Burnaby, British Columbia, [3]Simon Fraser University, Burnaby, BC, [4]Fraser Health Authority, Surrey, British Columbia, [5]University of Victoria, Victoria, BC, [6]Simon Fraser University, Surrey, British Columbia

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2641 M2G: A low-resource reliable pipeline to democratize multi-modal MRI connectome generation

Ross Lawrence[1], Joshua Vogelstein[1]
[1]Johns Hopkins University, Baltimore, MD

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2642 Deep Asymptotic Quantization for Neuroimage Search

Erkun Yang[1], Mingxia Liu[2]
[1]University of North Carolina at Chapel Hill, CHAPEL HILL, NC, [2]University of North Carolina at Chapel Hill, Chapel Hill, NC

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2643 Deep Linear Modeling of MultiBand MultiEcho fMRI Reveals Reproducible Hierarchical FC Networks – Duplicate

Wei Zhang[1], Yang Wang[2], Alexander Cohen[2], Michael McCrea[2], Pratik Mukherjee[1]
[1]UCSF, San Francisco, CA, [2]Medical College of Wisconsin, Milwaukee, WI

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2644 White matter integrity change across six months after mild traumatic brain injury

David Robles[1], Ammar Dharani[1], Kenneth Rostowsky[1], Van Ngo[1], Fan Zhang[2], Lauren O'Donnell[3], Andrei Irimia[1]
[1]University of Southern California, Los Angeles, CA, [2]Brigham and Women's Hospital, Boston, MA, [3]Brigham and Women's, Boston, MA

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2645 Functional/Structural Intrinsic Network Measures of Brain Reserve to Predict Outcomes in Epilepsy

Walter Hinds[1], Shilpi Modi[1], Kapil Chaudhary[1], Ashithkumar Beloor-Suresh[1], Michael Sperling[1], Xiaosong He[2], Joseph Tracy[1]
[1]Thomas Jefferson University, Philadelphia, PA, [2]University of Pennsylvania, Philadelphia, PA

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2646 Region and hemisphere specific automatic quality control for MRI-derived cortical segmentations

Shruti Gadewar[1], Alyssa Zhu[2], Daniel Dixon[1], Tasfiya Islam[3], Sophia Thomopoulos[2], Piyush Maiti[2], Paul Thompson[4], Neda Jahanshad[1]

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2647 Pupil diameter and large brain dynamics tracks perceptual change in an ambiguous figure task

Gabriel Wainstein[1], James Shine[2], Kaylena Ehgoetz Martens[3], James Danckert[4]

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2648 TUSX: an accessible toolbox for transcranial ultrasound simulation

Ian Heimbuch[1], Marco Iacoboni[1], Andrew Charles[1]

[1]University of California, Los Angeles, Los Angeles, CA

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2649 The Impact of Mild Cognitive Impairment on Neural Oscillatory Dynamics Serving Verbal Working Memory

Amy Proskovec[1], Elizabeth Davenport[1], Heidi Rossetti[1], C. Munro Cullum[2], Anthony Longoria[3], Jarrett Berry[1], Joseph Maldjian[1]

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2650 Cerebral Neurochemistry and Microstructures in Healthy Aging: A Quantitative MR and MRS Study

Qixiang Lin[1], Antoine Hone-Blanchet[1], Salman Shahid[1], Allan Levey[1], James Lah[1], Bruce Crosson[1,2], Deqiang Qiu[2,3]

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2651 Hearing loss in older adults is associated with hypometabolism in the auditory cortex

Fatin Zainul Abidin[1], Marzia A. Scelsi[2], Sally Dawson[3], Andre Altmann[4]

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2652 Neural correlates of conscious perception in human visual thalamus during binocular rivalry

Zhiqiang Chen[1,2,3], Chencan Qian[1,2], Peng Zhang[1,2]

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2653 Neural encoding of temporal and spectral statistical regularities of reverberant environments

Haydee Garcia-Lazaro[1], Yavin Alwis[2], Santani Teng[2]

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2654 Heritability parcellation of cortical thickness in 10-year-old children

Bader CHAARANI[1], Alexandra Potter[2], Hugh Garavan[3]

[1]UVM, BURLINGTON, VT, [2]University of Vermont, Burlington, VT, [3]Department of Psychiatry, University of Vermont College of Medicine, Burlington, VT

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2655 Differences in brain connectivity trends across Alzheimer's disease and mild traumatic brain injury

Hyung Jun Lee[1], Nahian Chowdhury[1], Kenneth Rostowsky[1], Nikhil Chaudhari[1], David Robles[1], Andrei Irimia[1]

[1]University of Southern California, Los Angeles, CA

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2657 Rivermead Post-Concussion Questionnaire Scores Predict PVS Volume Fraction in mTBI–A TRACK-TBI Study

Rachel Custer[1], Zhuocheng Li[1], Andrei Irimia[2], Arthur Toga[2], Farshid Sepehrband[1]

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2658 Neuropredictome: a data-driven predictome for cognitive, psychiatric, medical, and lifestyle factors

Syed Sultan[1]

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2659 Functional connectivity and dopamine D1 co-dependence at rest predict working memory performance

Robin Pedersen[1], Jarkko Johansson[2], Alireza Salami[3]

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2660 Enhanced Functional Connectivity Following Sleep-Related Consolidation of Cognitive Strategies

Nicholas van den Berg[1], Dylan Smith[1], Zhuo Fang[1], Aaron Gibbings[1], Alyssa Pozzobon[1], Stuart Fogel[1]

[1]The University of Ottawa, Ottawa, ON

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2661 Empathy and Behavioral Activation System Predict Neural Activation to Infant Crying in New Mothers

Daiki Hiraoka[1,2], Kai Makita[1], Nobuko Sakakibara[1], Sawa Kurata[1], Shigemi Morioka[3], Makoto Orisaka[1], Yoshio Yoshida[1], Shota Nishitani[1], koji Shimada[1], Takashi Fujisawa[1], Akemi Tomoda[1]

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2664 Self-Supervised Contrastive Learning of Texture Features for 3D Polarized Light Imaging

Alexander Oberstrass[1,2], Markus Axer[1,3], Nicola Palomero-Gallagher[1,4,5], Katrin Amunts[1,4], Timo Dickscheid[1,2]

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2666 Brain state kinematics and the trajectory of task performance improvement

Eli Muller[1], Brandon Munn[2], Mac Shine[3]

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2667 Investigating latent neurocircuitry traits underlying brain dynamic functional connectome

Jialu Ran[1], Yikai Wang[1], Ying Guo[1]

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2668 Sensorimotor neurometabolites and fiber density mediate the age-related decline in action selection

Amirhossein Rasooli[1], Hamed Zivariadab[1], Sima Chalavi[1], Thijs Dhollander[2], Dante Mantini[1], Stephan Swinnen[1]

[1] KU Leuven, Leuven, Vlaams-Brabant, [2] Murdoch Children's Research Institute, Melbourne, Victoria

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2669 Correcting for global displacement induced by transient motion during k-space acquisition.

Ghiles Reguig[1], Marc Lapert[2], Stéphane Lehéricy[3], Romain Valabregue[3]

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2671 Neural substrates of accurate perception of time duration - An fMRI study

Maho Hashiguchi[1], TAKAHIKO KOIKE[1], Denis Le Bihan[1], Norihiro Sadato[1]

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2673 Automated identification of key resting-state fMRI networks in preoperative glioma patients

Donna Gift Cabalo[1], Francesca Saviola[1], Stefano Tambalo[1], Beatrice Luciani[1], Domenico Zacà[1], Luca Zigiotto[2], Silvio Sarubbo[2], Jorge Jovicich[1]

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2676 Choice of VBM processing pipeline drives variability in the location of neuroanatomical biomarkers

Xinqi Zhou[1], Renjing Wu[1], Yixu Zeng[1], Ziyu Qi[1], Stefania Ferraro[1,2], Lei Xu[1], Xiaoxiao Zheng[1], Jialin Li[1], Meina Fu[1], Shuxia Yao[1], Keith Kendrick[1], Benjamin Becker[1]

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2681 Relationship between consciousness and the contralateral TCT volume in patients with HIBI

Sung Ho Jang[1], Sung Jun Lee[1], Min Jye Cho[1]

[1] Yeungnam university hospital, Taegu, Republic of Korea

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2685 Difference in ascending reticular activating systems between PVS and MCS following PH

Sung Ho Jang[1], You Sung Seo[1], Min Jye Cho[1]

[1] Yeungnam university hospital, Taegu, Republic of Korea

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2688 The Role of Neurons, Glia and Synapses in Defining Hierarchy of Resting State Functional Networks.

Sayan Kahali[1], Marcus Raichle[1], Dmitriy Yablonskiy[1]

[1] Washington University in Saint Louis, Saint Louis, MO

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2689 A 3-Factor Model of Common Early-Onset Psychiatric Disorders: Dopamine, Personality and Stress

Maisha Iqbal[1], Sylvia Cox[2], Natalia Jaworska[3], Maria Tippler[2], Natalie Castellanos-Ryan[4], Sophie Parent[4], Alain Dagher[5], Frank Vitaro[4], Mara Brendgen[6], Michel Boivin[7], Robert Pihl[2], Sylvana Côté[4], Richard Tremblay[4], Jean Seguin[4], Marco Leyton[2]

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2691 Nonlinear characteristics and spatial localizations of corpus callosum development in human infants

Daisuke Tsuzuki[1], Gentaro Taga[2], Hama Watanabe[2], Fumitaka Homae[1]

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2696 Modelling of Multimodal Relationships Between Atrophy and Tau Deposition in Alzheimer's Disease

Clyde Belasso[1,2], Gleb Bezgin[3], Pedro Rosa-Neto[3,4], Jean-Paul Soucy[2,5], Hassan Rivaz[1,2], Habib Benali[1,2]

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2698 Prospective motion correction and reacquisition in a complete clinical protocol for brain MR imaging

Hannah Eichhorn[1,2], Robert Frost[3,4], Asta Kongsgaard[1], Stefan Glimberg[5], Paul Wighton[3], M. Dylan Tisdall[6], André van der Kouwe[3,4], Kathrine Skak Madsen[7,8], Melanie Ganz[1,9]

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2699 Neuroplasticity in ocular and cerebral visual impairment: Differential impact of network threshold

Bang-Bon Koo[1], Lotfi Merabet[2,3], Corinna Bauer[3,2]

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2702 Revealing latent structure of cortical thickness using genetic and disease associations

Zhaowen liu[1,2,3], Jordan Smoller[1,2,3], Tian Ge[1,2,3]

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2703 Spatial Probability Maps of the Segments of the Postcentral Sulcus and Relations to Somatotopy

Veronika Zlatkina[1], Trisanna Sprung-Much[1], Michael Petrides[1]

[1]McGill University, Montréal, Quebec

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2704 Event-related EEG Dynamics Correlate of Pedestrians' Situational Awareness while Multitasking

Chun-Hsiang Chuang[1], Tsai-Feng Chiu[2], Yu-Hsiang Liao[2], Shih-Syun Lin[2]

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2705 Developmental and age-related changes in brain deactivation during a unimanual motor task

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2706 Neurite microstructural alterations in gray and white matter in healthy aging and aMCI

Elveda Gozdas[1], Hannah Fingerhut[1], Lauren Dacorro[1], Jennifer Bruno[1], Hadi Hosseini[1]

[1]Stanford University, Stanford, CA

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2707 The neurofunctional effects of aging on motor control: a meta-analytical account.

Marika Mariano[1], Eraldo Paulesu[1], Laura Zapparoli[1]

[1]Psychology Department and NeuroMi – Milan Centre for Neuroscience, University of Milano-Bicocca, Milano, Milano

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2708 Action prediction beyond the mirror neurons: novel fMRI evidence compared to a meta-analysis

Margherita Adelaide Musco[1], Chiara Verga[2,3], Giulia Tomasetig[1], Eraldo Paulesu[1,4], Lucia Maria Sacheli[1]

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2709 Point-spread function of the BOLD response across cortical depth in human area V2

Alessio Fracasso[1], Serge Dumoulin[2], Natalia Petridou[3]

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2710 Exploring neural correlates of subjective cognitive function vs. distress in breast cancer survivors

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2711 Dysconnectivity of a functional network was associated with peripheral inflammation in depression

Athina Aruldass[1], Manfred Kitzbichler[1], Sol Lim[1], Sarah Morgan[1], Mary-Ellen Lynall[1], Lorinda Turner[1], Petra Vertes[1], Jonathan Cavanagh[2], Phil Cowen[3], Carmine Pariante[4], Neil Harrison[5], Edward Bullmore[1]

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2712 Ataxia due to injury of the cortico-ponto-cerebellar tract in patients with mild TBI

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2715 Evidence for inhibition of neural intention representations after task completion

Kai Görgen[1,2,3], Ingmar Eiling[2], Leonardo Pettini[4], Corinna Pehrs[5,2], Marcus Möschl[5], Thomas Goschke[5], John-Dylan Haynes[1,2,3]

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2716 Reconstructing eye position from population receptive fields and eye-position dependent gain fields

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2717 Identifying Structural Brain Markers of Resilience in Young People using Voxel-Based Morphometry

Harriet Cornwell[1], Nicola Toschi[2,3], Marlene Staginnus[1], Catherine Hamilton-Giachritsis[1], Kerstin Konrad[4], Christina Stadler[5], Arne Popma[6], Christine Freitag[7], Stephane De Brito[8], Graeme Fairchild[1]

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2718 A reproducible protocol to estimate first-order white-matter thalamocortical tracts

Liu Mengxing[1], Garikoitz Lerma-Usabiaga[1], Francisco Clascá[2], Pedro Paz-Alonso[1,3]

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2719 Predicting children's math skills from functional brain network connectivity

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2720 Brain Connectivity Variable Resolution Tomographic Analysis (BC-VARETA Toolbox)

Deirel Paz Linares[1], Ariosky Areces-Gonzalez[2,3], Ying Wang[1], Anisleidy González Mitjans[1], Jorge Bosch-Bayard[4], Maria L. Bringas-Vega[5], Pedro Valdés-Sosa[1]

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2721 Predicting facial expression of pain from fMRI data during noxious stimuli in healthy individuals

Marie-Eve Picard[1,2], Miriam Kunz[3], Jen-I Chen[1,2], Andréanne Proulx[1,2], Étienne Vachon-Presseau[4], Pierre Rainville[1,2]

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2722 Exploration of Highly Accelerated Compressed-Sensing T1w Scans for Brain Morphometry Applications

Lindsay Hanford[1], Emily Iannazzi[1], Tom Hilbert[2], Tobias Kober[2], Randy Buckner[1], Ross Mair[1]

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2723 Multiscale Gene and Imaging Brain Model Decodes Biological Mechanisms in Aging and Alzheimer Disease

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2724 Response Inhibition Deficits After Insular Lesions

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2725 Multi-shell Diffusion DSI Analysis on Fatigability in Older Adults with Depression

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2726 Predicting 18-months developmental outcomes from multi-modal cortical profiles in neonates

Daphna Fenchel[1], Ralica Dimitrova[2], Dafnis Batalle[3,2], Emer Hughes[2], Lucilio Cordero-Grande[2], Daan Christiaens[2], Anthony Price[2], Andrew Chew[2], Shona Falconer[4], Vanessa Kyriakopoulou[2], Joseph V. Hajnal[2], Daniel Rueckert[5], Grainne McAlonan[3,1,6], A David Edwards[2,1], Jonathan O'Muircheartaigh[2,3,1]

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2727 Biased distribution of fitted parameters in space leads to angular tuning maps in the visual cortex

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2729 Psychedelics flatten the brain's energy landscape

Parker Singleton[1], Andrea Luppi[2], Josephine Cruzat[3], Robin Carhart-Harris[4], Leor Roseman[4], Emmanuel Stamatakis[5], Gustavo Deco[6], Morten Kringelbach[7], Amy Kuceyeski[8]

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2730 Lifespan Brain Development of Quantity Representation from Childhood into Adulthood

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2731 Multi-Scale Model of Neurotransmitter Receptor Alterations in Alzheimer's Disease Progression

Ahmed Khan[1], Quadri Adewale[2], Tobias Baumeister[1], Felix Carbonell[3], Karl Zilles[4], Nicola Palomero-Gallagher[5], Yasser Iturria-Medina[2]

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2732 Beyond memory in amnestic mild cognitive impairment: an fMRI study of planning

Nena Lejko[1], Shankar Tumati[2,1], Esther Opmeer[3,1], Jan-Bernard Marsman[1], Fransje Reesink[1], Peter De Deyn[1,4], André Aleman[1,5], Branislava Ćurčić-Blake[1]

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2733 Retinal ganglion cell endowment is correlated with optic tract fiber cross-section, not density

Huseyin Taskin[1], Yuchuan Qiao[2], Yonggang Shi[2], Valerie Sydnor[1], Matthew Cieslak[1], Jessica Morgan[1], Geoffrey Aguirre[1]

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2734 Decreased functional dynamics of thalamo-cortical states in cognitively impaired multiple sclerosis

Stefanos Prouskas[1], Tommy Broeders[1], Linda Douw[1], Jeroen Geurts[1], Hanneke Hulst[1], Menno Schoonheim[1]

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2735 Brain Serotonin Transporter Is Associated with Cognitive Affective Biases in Healthy Individuals

Sophia Armand[1,2], Brice Ozenne[1,3], Nanna Svart[1,2], Vibe Frokjaer[1,4,5], Gitte Knudsen[1,5], Patrick Fisher[1], Dea Stenbæk[1,2]

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2737 Neural mediators of subjective and autonomic responding during threat learning and regulation

Hannah Savage[1], Christopher Davey[1], Tor Wager[2], Sarah Garfinkel[3], Bradford Moffat[1], Rebecca Glarin[1], Ben Harrison[1]

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2738 The Visual Word Form Area in the absence of left superior temporal cortex

Jin Li[1], Evelina Fedorenko[2], Zeynep Saygin[1]

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2739 Hippocampal Subfiled Volume and Memory Impairment in Temporal Lobe Epilepsy

Sungeun Hwang[1], Song Kim[2,3], Yun Choi[2,3], Seoyoung Mun[4], Eunbin Kim[4], Hyang Lee[1,2,3,5,6]

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2740 Neural characteristics of priming-induced changes in agreement toward social norms

Yukihito Yomogida[1,2], Kazuki Iijima[1,2,3], Kaosu Matsumori[1,3,4], Madoka Matsumoto[1,2], Ryuta Aoki[1,5], Ayaka Sugiura[1], Kenji Matsumoto[1]

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2741 Scale Specific Analysis of Brain Cortical Asymmetry

Yu-Chi Chen[1], Aurina Arnatkevičiūtė[1], Eugene McTavish[1], Chao Suo[1], Alex Fornito[1,2], Kevin Aquino[3,4,1]

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2743 The Influence of Bilingualism on Gray Matter Volume in the Course of Aging

Katharina Hild[1,2], Johanna Stumme[1,3], Christiane Jockwitz[1,3], Svenja Caspers[1,3], Stefan Heim[1,2]

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2744 Brain Structure, Phenotypic and Genetic Correlates of Reading

Amaia Carrión Castillo[1], Pedro Paz-Alonso[1,2], Manuel Carreiras[1,2,3]

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2745 Predicting Adaptive Behavior at 1 year of age from rsfMRI at one month

Silvia Gini[1], Hannah Peterson[1], Max Rolison[1], Alexander Dufford[1], Dustin Scheinost[2]

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2746 Psilocybin induces psilocin-dependent effects on dynamic functional connectivity in humans

Anders Olsen[1], Anders Lykkeboe-Valløe[1], Martin K Madsen[1], Brice Ozenne[1,2], Melanie Ganz[1,3], Gitte M Knudsen[1,4], Patrick M Fisher[1]

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2747 Examining the behavioural underpinnings of multisensory memory recollection using real world stimuli

Alice Bush[1], Heidi Bonnici[1]

[1]University of East Anglia, Norwich, Norfolk

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2749 Watching the brain build memories across eye movements: An EEG – eye-tracking coregistration study

Andrey Nikolaev[1,2], Inês Bramão[1], Axel Ekström[1], Roger Johansson[1], Mikael Johansson[1]

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2750 Comparing brain-based and genetic risk scores for Major Depressive Disorder in adults and youths

Gladi Thng[1], Xueyi Shen[2], Aleks Stolicyn[3], Mathew Harris[4], Andrew McIntosh[3], Liana Romaniuk[3], Heather Whalley[3]

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2752 White matter hyperintensities and APOE affect the association between blood pressure and cognition

Youjin Jung[1], Raymond Viviano[1], Sanneke van Rooden[2], Jeroen van der Grond[2], Serge A.R.B. Rombouts[3], Jessica Damoiseaux[1]

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2753 White matter microstructure and behavior in young children with prenatal alcohol exposure

Irene Manalastas[1], Preeti Kar[2,3], Jess Reynolds[1,2,3], Melody Grohs[1,2], Ben Gibbard[1,2], Christina Tortorelli[4], Catherine Lebel[1,2,3]

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2754 Interaction between early life stress and HPA axis tone on reward response in a large fMRI sample

Liana Romaniuk[1], Claire Green[1], Anca-Larisa Sandu[2], Gordon Waiter[3], Chris McNeil[3], Xueyi Shen[1], Matthew Harris[1], Jennifer Macfarlane[4], Ian Deary[1], Alison Murray[3], J Douglas Steele[4], Rebecca Reynolds[1], Stephen Lawrie[1], Andrew McIntosh[1], Heather Whalley[1]

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2755 Individuals with mild traumatic brain injury exhibit altered brain dynamics compared to controls

Nate Roy[1], Parker Singleton[2], Keith Jamison[3], Pratik Mukherjee[4], Amy Kuceyeski[5]

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2756 Flexible and Efficient Segmentation of Dynamic Brain Topologies

Jacob Billings[1], Giovanni Petri[2], Jaroslav Hlinka[1]

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2757 Plasticity of the premotor cortex for fMRI neurofeedback using motor execution

Yuxiang Yang[1], Huixiang Yang[1], Fumihito Imai[1], Kenji Ogawa[1]

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2758 Decoupling of structural and functional connectivity towards progressive MS is related to cognitive

Maureen van Dam[1], Tommy Broeders[1], Ismail Koubiyr[2], Aurélie Ruet[2], Julia Jelgerhuis[1], Marloes Bet[1], Jeroen Geurts[1], Hanneke Hulst[1], Menno Schoonheim[1]

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2759 Cortical thickness and sulcal pits extraction in schizophrenia patients with auditory hallucinations

Baptiste Lerosier[1], Gregory Simon[1], Olivier Etard[2], Sylvain Takerkart[3], Guillaume Auzias[4], Sonia Dollfus[1]

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2760 Meditation and Gender Affect the Attentional Blink: An ERP and Bayesian Learning Analysis

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2762 Neurophysiology of Attention Lateralization Following Brief Meditation Training

Jørgen Haug[1], Jørgen Olsnes[1], Magda Dumitru[1]

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2763 Dissecting whole-brain conduction delays through MRI microstructural measures

Matteo Mancini[1,2,3], Qiyuan Tian[4], Qiuyun Fan[4], Mara Cercignani[2], Susie Huang[4]

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2764 Controlling time-resolved and cross-temporal neuroimaging studies: The Same Analysis Approach (SAA)

Kai Görgen[1,2,3], Leonardo Pettini[4,3], Ingmar Eiling[3], John-Dylan Haynes[1,2,3]

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2765 Key nodes of the salience network are more engaged during inconsistent decision making

Jeremy Myslowski[1], Mikhail Koffarnus[2], Jonathan Lisinski[1], Kristin Peviani[3], Warren Bickel[1], Jungmeen Kim-Spoon[3], Pearl Chiu[1], Brooks King-Casas[1], Stephen LaConte[1]

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2766 Brain-Clinical Perfusion Patterns May Predict Conversion Subtype in REM Sleep Behavior Disorder

Shady Rahayel[1,2], Ronald Postuma[2,3], Andrée-Ann Baril[4], Bratislav Misic[1], Amélie Pelletier[2,3], Jacques Montplaisir[2,5], Alain Dagher[1], Jean-François Gagnon[2,6]

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2767 Probing brain-wide electrophysiological functional connectivity dynamics in resting-state EEG

Guofa Shou[1], Lei Ding[1]

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2768 A non-invasive method to prevent head movements of awake monkeys during event-related fMRI

Reiji Tanaka[1], Kei Watanabe[1], Hiroshi Ban[2,3], Ken-ichi Okada[4], Shigeru Kitazawa[1]

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2769 Flashing words: Level of print sensitive oddball response depends on children's reading expertise

Christina Lutz[1,2], Seline Coraj[1], Gorka Fraga González[1], Silvia Brem[1,2]

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2770 The effect of multiple-dose oxytocin treatment on amygdala connectivity in children with autism

Nicky Daniels[1], Valérie Voordeckers[1], Jellina Prinsen[1], Matthijs Moerkerke[1], Annelies Bamps[1], Tiffany Tang[1], Stephanie Van der Donck[1], Jean Steyaert[1], Bart Boets[1], Kaat Alaerts[1]

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2771 Assortativity in annotated cortico-cortical brain networks

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2772 Identifying differences in functional connectivity of left- and right-handed individuals

Link Tejavibulya[1], Hannah Peterson[2], Stephanie Noble[2], Siyuan Gao[3], Max Rolison[2], Dustin Scheinost[4]

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2773 Alpha oscillations in left perisylvian cortices support semantic reasoning

Maggie Rempe[1,2], Rachel Spooner[1,2], Brittany Taylor[1,2], Jacob Eastman[1], Mikki Schantell[1,2], Christine Embury[1,3], Elizabeth Heinrichs-Graham[1,2], Tony Wilson[1,2]

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2774 Relationship between elevated depressive symptoms, brain volume, and negative attention bias

Javaria Baig[1], Angela Castillo[1], Kimberly Ray[1], Jacqueline Harle[1], Isabella McConley[1], Megan McMahon[1], Kean Hsu[2], Jason Shumake[3], Christopher Beevers[3], David Schnyer[3]

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2775 A dynamics-based approach to thresholding tractography-based connectomes

Eleanna Kritikaki[1], Diana Kyriazis[2], Natasha Sigala[2], Matteo Mancini[1], Simon Farmer[3], Luc Berthouze[1]

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2776 Cap-Based Brain-Wide Diffuse Optical Tomography of Resting-State Networks

Ali Khan[1], Fan Zhang[1], Han Yuan[1], Lei Ding[2]

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2777 Connectome prediction modeling of weak effects in small samples: an empirical and simulation study

Signe Bray[1], Christiane Rohr[1], Dennis Dimond[1], Shefali Rai[1], Nils Forkert[1], Ryann Tansey[1], Kirk Graff[1], Stephanie Deighton[1], Rylan Marianchuk[1]

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2778 Scale-free connectome dynamics revealed through neurocognitive network co-activation

Thomas Alderson[1], Jonathan Wirsich[2], Oluwasanmi Koyejo[1], Sepideh Sadaghiani[1]

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2779 Ultra-high field manual segmentation of the ex vivo human amygdala subnuclei

Sara Pac[1], Daniel Cao[1], Ali Khan[2], Emma Duerden[1]

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2780 Functional Connectivity in Mild Cognitive Impairment and Subjective Cognitive Decline

Arunan Srikanthanathan[1], Susan Vandermorris[2], Nicolaas Verhoeff[3], Jean Chen[4], Nathan Herrmann[5], Linda Mah[5]

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2781 Musical emotions evoked by Japanese Animation Soundtracks: An EEG study

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2782 Diffensive Pessimists baked by the orbit frontal improved the performance in competitive situation

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2783 Impact of sleep deprivation on cerebral activation during a perceptual discrimination task

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2784 Association of CLOCK genetic variants with sleep duration and brain volume

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2785 Brain Volumetric Changes in the General Population Following the COVID-19 Outbreak and Lockdown

Tom Salomon[1], Adi Cohen[1], Daniel Barazany[1], Gal Ben-Zvi[1], Rotem Botvinik-Nezer[2], Rani Gera[1], Shiran Oren[1], Dana Roll[1], Gal Rozic[1], Anastasia Saliy[1], Niv Tik[1], Galia Tsarfati[3], Ido Tavor[1], Tom Schonberg[1], Yaniv Assaf[1]

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2786 Fast event-related mapping of population receptive fields in human somatosensory and motor systems

Sarah Khalife[1], Rosa-María Sanchez-Panchuelo[2], Susan Francis[2], Denis Schluppeck[2], Julien Besle[3]

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2787 A statistical perspective on edge-centric functional connectivity

Leonardo Novelli[1], Adeel Razi[1]

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2788 Semantic fMRI-neurofeedback: a multi-subject study at 3 Tesla

Assunta Ciarlo[1], Andrea Russo[1], Sara Ponticorvo[1], Francesco Di Salle[1], Michael Lührs[2,3], Rainer Goebel[2,3], Fabrizio Esposito[4]

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2790 Persistent Homology promise in functional & effective networks, fMRI & EEG, schizophrenia & seizures

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2791 Can exposure in vivo induce changes in white matter microstructure in people with chronic pain?

Iris Coppieters[1], Hui Zhang[2], Jeroen de Jong[3], Amanda Kaas[3], Inge Timmers[3]

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2793 Brain age differences and how to test them

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2794 Behavioral and Functional Neural Correlates of Visual Hypersensitivity in Chronic Nociplastic Pain

Noah Waller[1], Ishtiaq Mawla[1], Eric Ichesco[1], Andrew Schrepf[1], Steven Harte[1], Richard Harris[1]

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2795 Exploring Local Similarity Gradients in the Autistic Spectrum

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2796 Nipype 2.0: A new ecosystem for neuroimaging workflows

DOROTA JARECKA[1], Christopher Markiewicz[2], Mathias Goncalves[3], Nicol Lo[1], Jakub Kaczmarzyk[4], Hao-Ting Wang[5], Jeffrey Wigger[6], Michael Dayan[6], Oscar Esteban[7], Satrajit Ghosh[1]

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2797 Ultra-high resolution imaging of the fusiform gyrus and correlations with face perception in autism

Carissa Cascio[1], Rankin McGugin[2], Allen Newton[1], Ekomobong Eyoh[1], Isabel Gauthier[2]

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2798 Update from WHATNET: Workgroup for HArmonized Taxonomy of NETworks

Lucina Uddin[1], Richard Betzel[2], Jessica Cohen[3], Jessica Damoiseaux[4], Felipe De Brigard[5], Simon Eickhoff[6], Alex Fornito[7], Caterina Gratton[8], Evan Gordon[9], Angela Laird[10], Linda Larson-Prior[11], Anthony McIntosh[12], Lisa Nickerson[13], Luiz Pessoa[14], Ana Luísa Pinho[15], Russell Poldrack[16], Adeel Razi[17], Sepideh Sadaghiani[18], James Shine[19], Anastasia Yendiki[20], Thomas Yeo[21], Nathan Spreng[22]

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2799 Meta-Analysis of Neural Networks for Reading, Math, and Working Memory in School-Age Children

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2800 Daily regular-dose coffee interferes with grey matter dynamics induced by chronic sleep restriction.

Yu-Shiuan Lin[1,2], Denise Lange[3], Diego Baur[4,5], Anna Pierling[6,7], Eva-Maria Elmenhorst[3,8], Andreas Bauer[6], Daniel Aeschbach[3,9], Hans-Peter Landolt[4,5], David Elmenhorst[6,9]

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2801 The Developmental Trajectory of Spontaneous Cortical Activity

Lauren Ott[1,2], Samantha Penhale[1,2], Brittany Taylor[1], Brandon Lew[1,2], Yu-Ping Wang[3], Vince Calhoun[4], Julia Stephen[5], Tony Wilson[1,2]

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2802 Somatosensory Functioning in Alzheimer's Disease and HIV-Associated Neurocognitive Disorder

Chloe Casagrande[1], Alex Wiesman[2], Mikki Schantell[3,4], Sara Wolfson, DNP, APRN, GNP-BC[5], Craig Johnson[6], Pamela May[4], Daniel Murman[4,7], Jennifer O'Neill[8], Susan Swindells[8], Tony Wilson[3]

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2803 Netplotbrain: visualizing networks on a brain in python.

William Hedley Thompson[1], Silvia Fanton[1]

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2804 Social-Emotional Behaviors in Infants and the Developing Limbic System

Diane Seguin[1], Sara Pac[1], Julio Martinez-Trujillo[1], Emma Duerden[1]

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2805 Brain stimulation modulates alpha/beta parieto-frontal connectivity serving fluid intelligence

Yasra Arif[1], Rachel Spooner[1], Elizabeth Heinrichs-Graham[1], Tony Wilson[1]

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2806 Prediction of MCI conversion through sulcal morphometry

Giovanni Sighinolfi[1], Micaela Mitolo[1], Fabrizio Pizzagalli[2], Sabina Capellari[3,4], Michelangelo Stanzani-Maserati[4], Daniel Remondini[5], Raffaele Lodi[1,3], Rocco Liguori[3,4], Caterina Tonon[1,3], Claudia Testa[1,5]

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2807 Temporo- Mesial grey matter volume predicts odour recognition abilities

Claudia Casadio[1], Daniela Ballotta[1], Maria Giulia Corni[2], Elisa Bardi[2], Manuela Tondelli[2], Maria Angela Molinari[2], Francesca Benuzzi[1]

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2808 Ongoing Alpha EEG Power Predicts Digits-in-Noise Recognition and Perceived Clarity

Thomas Houweling[1], Robert Becker[1], Alexis Hervais-Adelman[1]

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2809 Cognitive training and tDCS as an intervention for prenatal alcohol exposure effects: a fMRI study

Timothy Hendrickson[1], Bryon Mueller[1], Donovan Roediger[1], Elias Boroda[1], Alyssa Krueger[1], Mariah Schumacher[1], Priya Bansal[2], Abhrajeet Roy[3], Christopher Boys[1], Kelvin Lim[4], Jeffrey Wozniak[1]

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2810 Neural oscillatory dynamics serving simple and complex motor sequences in patients with PD

Marie McCusker[1], Alex Wiesman[2], Rachel Spooner[1,3], Pamela Santamaria[4], Jennifer McKune[5], Elizabeth Heinrichs-Graham[1,3], Tony Wilson[1,3]

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2811 Predicting Clinical Course from Subcortical Shape in Provisional Tic Disorder

Tiffanie Che[1], Soyoung Kim[2], Deanna Greene[3], Ashley Heywood[4], Bradley Schlaggar[5], Kevin Black[6], Lei Wang[1]

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2812 Networks of Worry - the Complex Neural Underpinning of a Popular Phenotype

Andrew Gerlach[1], Helmet Karim[1], Robert Krafty[2], Howard Aizenstein[1], Carmen Andreescu[1]

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2813 Representative Learning of rsfMRI Using LSTM-Variational Auto-encoder (VAE) on subcortical surface

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2814 Connectivity profile laterality in corticostriatal functional circuitry: a fingerprinting approach

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2815 DHEA Influences Visuospatial Oscillatory Development During Puberty

Madison Fung[1], Raeef Rahman[1], Brittany Taylor[1], Michaela Frenzel[1], Jacob Eastman[1], Yu-Ping Wang[2], Vince Calhoun[3], Julia Stephen[4], Tony Wilson[1]

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2816 The olfactory functional network differs between non-progressive MCI and AD.

Daniela Ballotta[1], Claudia Casadio[1], Maria Giulia Corni[2], Elisa Bardi[2], Manuela Tondelli[2], Maria Angela Molinari[2], Francesca Benuzzi[1]

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2817 Rapid brain changes following acute psychosocial stress

Marie Uhlig[1], Janis Reinelt[2], H. Lina Schaare[3], Deniz Kumral[2], Mark Lauckner[2], Arno Villringer[3], Michael Gaebler[2]

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2818 Anterior insula and the superior temporal gyrus are critical for mentally travelling in time

Claudia Casadio[1], Daniela Ballotta[1], Fausta Lui[1], Michela Candini[2], Francesca Frassinetti[2,3], Francesca Benuzzi[1]

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2819 The musicians aging brain

Oana Georgiana Rus-Oswald[1], Jan Benner[2], Céline Bürki[3], Julia Reinhardt[4], Markus Christiner[5], Elke Hofmann[6], Peter Schneider[2], Christoph Stippich[7], Reto Kressig[3], Maria Blatow[8]

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2820 Diffusion MRI tractography estimates of auditory cortical–striatal connectivity in the human brain

Kevin Sitek[1], Bharath Chandrasekaran[1]

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2821 Cortical indices of intact hemisphere structure predict cognitive impairment in post-stroke aphasia

Georgia Angelopoulou[1], Dimitrios Kasselimis[1], George Papageorgiou[1], Dimitrios Tsolakopoulos[1], Georgios Velonakis[1], Efstratios Karavasilis[1], Varvara Pantolewn[1], Argyro Toudopoulou[1], Sophia Vassilopoulou[1], Constantin Potagas[1]

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2822 Comparing the hand knob in central sulci of humans, chimpanzees, gorillas and orangutans.

Ophelie Foubet[1], Zhong Yi Sun[1], William D. Hopkins[2], Jean-François Mangin[1]

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2823 Neural correlates of phonological encoding using a cluster-based analysis approach

Jayanthi Sasisekaran[1], Ricky Chow[2], Philip Burton[3], Claude Alain[4]

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2824 Individual characteristics predicting the biological age of the brain in healthy young adults

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2825 Examining depressive-like phenotypes induced by chronic variable stress, using partial least squares

Lizette Herrera-Portillo[1], Daniel Gallino[2], Rosemary Bagot[3], Mallar Chakravarty[4]

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2826 Structural and Functional Disparities Between Racial Groups in Alzheimer's Disease

Gabriel Martinez[1], Chinkuli Munkombwe[2], Maria Misiura[3], Jessica A. Turner[4]

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2827 Automatic localization of anatomical fiducials: validation across different datasets

Daniel Cao[1,2], Greydon Gilmore[1,3,4], Tristan Kuehn[1,3], Kayla Ferko[1,3], Jason Kai[1,3], Jordan DeKraker[1,3], Ali Khan[1,2,3,4], Jonathan Lau[1,2,3,4]

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2828 Hippocampal subfield profiles relate to cognitive impairment along the Alzheimer's disease spectrum

Nicholas Christopher-Hayes[1], Christine Embury[2], Alex Wiesman[3], Pamela May[4], Mikki Schantell[2], Craig Johnson[5], Sara Wolfson[6], Daniel Murman[4], Tony Wilson[7]

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2829 Brain hemodynamic derived feature extraction and gender estimation

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2830 Variability of the hemodynamic response function in the healthy human cervical spinal cord at 3T

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