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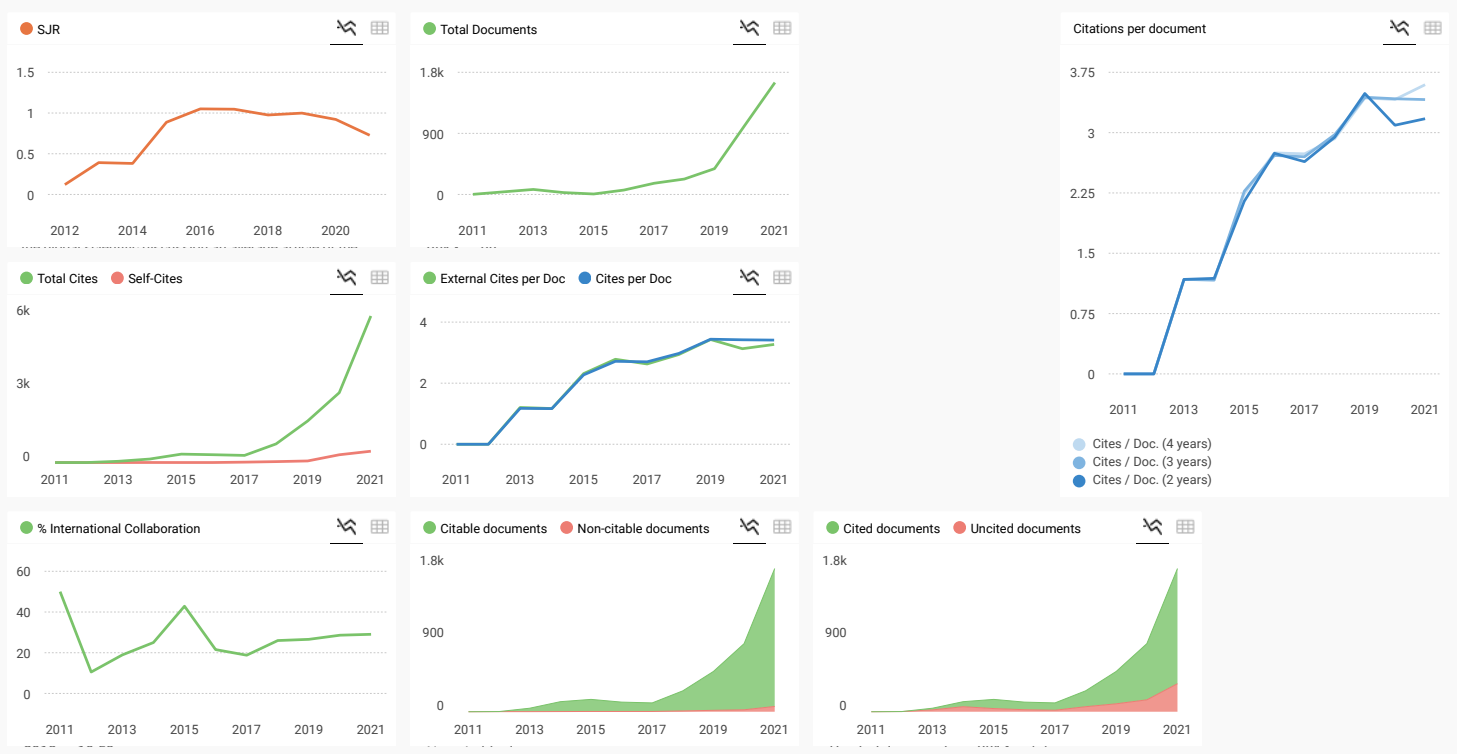
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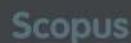
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Department of Neuroscience, University of Pittsburgh, Pittsburgh, PA 15260, USA

**Interests:** neurotransmitter release; calcium channels; presynaptic mechanisms

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Department of Biotechnological and Applied Clinical Sciences, University of L'Aquila, Via Vetoio, Coppito 2, 67100 L'Aquila, Italy

**Interests:** sleep; cognition and emotion; sleep deprivation

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Department of Medical Oncology, Miami Cancer Institute, Baptist Health South Florida, Miami, FL 33176, USA

**Interests:** brain metastases; glioblastoma; clinical trial; neuro-oncology; glioma

\* Neuro-oncology



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Multiple Sclerosis Center, Wayne State University School of Medicine, Detroit, MI 48201, USA

**Interests:** demyelinating disorders; clinical trials; therapeutic neuroimaging; OCT

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Section Editor-in-Chief

Psychological Sciences, University of California-Merced, 5200 North Lake Road, Merced, CA 95343, USA

**Interests:** infant speech perception; language learning; language development; audiovisual speech perception; audiovisual integration; near-infrared spectroscopy

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Section Editor-in-Chief

Department of Physiology and Biophysics, College of Medicine, Howard University, Washington, DC 20059, USA

**Interests:** neurodevelopment; neurogenesis; HIV; fetal alcohol exposure; hippocampus; cognitive impairment

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Section Editor-in-Chief

Department of Clinical Neurosciences, Parkinson and Movement Disorders Unit, 20133 Milan, Italy

**Interests:** Parkinson's disease; movement disorders; tremor; neurodegenerative diseases; neuroimaging; genetics; cognitive and behavioral disorders; dementia; neuropharmacology; dyskinesias;

\* Neuromuscular and Movement Disorders

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Section Editor-in-Chief

Brain-Computer Interfaces and Neural Engineering Laboratory, School of Computer Science and Electronic Engineering, University of Essex, Wivenhoe Park, Colchester CO4 3SQ, UK

**Interests:** multisensory integration; visual feature integration; attention; EEG; brain-computer interfaces; decision making; transcranial current stimulation; autobiographical memory

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Section Editor-in-Chief

Department of Anatomy, University of Otago, Dunedin, New Zealand

**Interests:** stroke; ageing; drug delivery; neuroprotection; neurorepair; learning and memory; behavioural neuroscience; neuropharmacology; CNS diseases; neuroinflammation; epilepsy

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*Section Editor-in-Chief*

Department of Psychology, Sapienza University of Roma, Roma, Italy

**Interests:** sleep; local sleep; aging; homeostasis; cortico-hippocampal networks; Alzheimer's Disease; sleep onset; dreaming

\* Behavioral Neuroscience

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*Section Editor-in-Chief*

School of Physiology, Pharmacology and Neuroscience, University of Bristol, University Walk, Bristol BS8 1TD, UK

**Interests:** astrocyte; receptor; signalling; noradrenaline; G-protein coupled receptors; glioblastoma; imaging; patch clamp; neuroprotection; optogenetics; Ca<sup>2+</sup>; cAMP; brainstem; cardio-respiratory control

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*Section Editor-in-Chief*

Clinical Psychiatry, Weill Cornell Medical College, White Plains, NY 10605, USA

**Interests:** adult psychiatry; geriatric psychiatry; mood disorders; brain fMRI; brain functional connectivity; visual inspection of independent components; dual regression

\* Psychiatric Diseases

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*Section Editor-in-Chief*

Department of Pharmaceutical Sciences, College of Pharmacy, University of South Florida, Tampa, FL 33620, USA

**Interests:** Neurodegenerative disorders; inflammation; cell signaling; epigenetics; oxidative stress; environmental impact; toxicology



**Prof. Dr. Gerry Leisman \***

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1. Movement and Cognition Laboratory, Faculty of Social Welfare and Health Sciences Haifa University, Haifa, Israel

2. Department of Clinical Neurophysiology, Institute for Neurology and Neurosurgery, University of the Medical Sciences of Havana, Havana, Cuba

**Interests:** developmental neuroscience; computational neuroscience; cognitive neuroscience; fetal cognition; neuroplasticity; consciousness; neuroeducation hunter

\* Educational Neuroscience

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**Dr. Jose Lujan**

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*Section Editor-in-Chief*

Department of Neurologic Surgery, Mayo Clinic, Rochester, MN 55905, USA

**Interests:** neuromodulation; control strategies; optimization; neural function; neuroprostheses; computational modeling; deep brain stimulation

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**Prof. Dr. Kabirullah Lutfy \***

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*Section Editor-in-Chief*

Department of Pharmaceutical Sciences, College of Pharmacy, University of Health Sciences, Philadelphia, PA 19162, USA

**Interests:** neuropeptides; drug and natural reward; pain; addiction; psychostimulants and other addictive drugs

\* Neuroscience of Pain

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*Section Editor-in-Chief*

Department of Neurosurgery, University of Illinois at Chicago, Chicago, IL 60612, USA

**Interests:** neuromodulation; facial pain; peripheral nerve stimulation; deep brain stimulation

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**Prof. Dr. Yang Zhang**

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*Section Editor-in-Chief*

Department of Speech-Language-Hearing Sciences & Center for Neurobehavioral Development, University of Minnesota, Minneapolis, MN 55455, USA

**Interests:** language acquisition; bilingualism; auditory neuroscience; speech perception; music perception; neurolinguistics; social neuroscience; computational modelling; hearing loss; autism spectrum disorder

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*Section Editor-in-Chief*

Department of Psychology, Sapienza University of Rome, 00185 Rome, Italy

**Interests:** learning disabilities; dyslexia and related disorders; models of dyslexia; eye movements in reading; language

\* Neuropsychology

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**Interests:** neurosciences; neurosurgery; neuro-oncology; brain mapping; deep brain stimulation; stem cells; structural and functional anatomy

**Dr. Panagiotis Alexopoulos**

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2. Global Brain Health Institute, Trinity College Dublin, The University of Dublin, Dublin, Ireland
3. Department of Psychiatry and Psychotherapy, Technical University Munich, Munich, Germany

**Interests:** old-age depression; dementia; mild cognitive impairment; memory; neurodegeneration; neurobiology and brain physiology; cognitive neuroscience; neuroimaging; neurodegenerative diseases; cognitive neuropsychology; clinical neuropsychology; executive function

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Department of Biomedical Engineering, Johns Hopkins School of Medicine, 701C Rutland Avenue 720, Baltimore, MD 21205, USA

**Interests:** repair and regeneration; human stem cell; electrophysiology; upconversion nanoparticles; spinal cord injury; neuromodulation; polymeric nanomaterials

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Geriatrics Division, Department of Internal Medicine, Jundiaí Medical School, São Paulo, Brazil

**Interests:** sarcopenia; frailty; cognitive and depressive disorders in older people

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**Interests:** movement disorders; Parkinson's disease; narcolepsy

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Department of Neurosciences, Research Centre for Biotechnology & Bioinformatics, School of Life Sciences, University of Hyderabad, Telangana 500046, India

**Interests:** cerebral ischemia/stroke; glioma mechanism and possible treatment strategies; cerebral malaria and neurodegeneration

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*Editorial Board Member*

Department of ENT at ukb, Charité Medical School, University of Berlin, 12683 Berlin, Germany

**Interests:** vestibular function testing; vestibular rehabilitation; noise induced hearing loss; cochlear implants; central auditory processing

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2. Cajal Laboratory of Cortical Circuits, Center for Biomedical Technology (CTB), Polytechnic University of Madrid, Campus Montegancedo S/N, Pozuelo de Alarcón, 28223 Madrid, Spain

**Interests:** neuroanatomy; cerebral cortex; pyramidal cells; dendritic spines; comparative neuroanatomy



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Department of Speech, Language & Hearing Sciences and Program in Neuroscience, Indiana University Bloomington, Bloomington, IN, USA

**Interests:** auditory neuroscience; speech perception; music perception; cognitive aging; neuroplasticity; hearing loss; EEG; fMRI

**Special Issues, Collections and Topics in MDPI journals**

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*Editorial Board Member*

Dementia Research Centre, UCL Queen Square Institute of Neurology, Department of Neurodegenerative Disease, University College London, London, UK

**Interests:** neuroimaging; neurodegenerative diseases; dementia; frontotemporal dementia; neuroanatomy



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2. Institute for Science and Technology in Medicine, Stoke-on-Trent, UK

3. Wilson Centre for Inherited Neuromuscular Disease, RJAH Orthopaedic Hospital, Oswestry, UK

**Interests:** spinal muscular atrophy; amyotrophic lateral sclerosis; therapeutic development; metabolism; muscle; mouse models

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Nervous System Unit, Walter Cantídio University Hospital (HUWC) / Federal University of Ceará (UFC), Fortaleza, Brazil

**Interests:** neurodegenerative diseases; movement disorders; neurogenetics; hereditary ataxias and long-term brain disorders in pos-COVID 19

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School of Psychology, National University of Ireland Galway, H91 TK33 Galway, Ireland

**Interests:** neuropsychology; neuroimaging; neurophysiology; social cognition; executive function; psychiatry; movement disorders



**Dr. Fan Cao**

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Department of Psychology, University of Hong Kong, Hong Kong, China

**Interests:** neural plasticity in language development and learning



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*Editorial Board Member*

School of Health Sport and Bioscience, University of East London, London, UK

**Interests:** molecular neurobiology; alcohol addiction; drosophila models

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Department of Ophthalmology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261, USA

**Interests:** stem cell biology; neuroinflammation; optic nerve regeneration; retinal ganglion cell

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Department of Systems Medicine, Laboratory of Synaptic Immunopathology, "Tor Vergata" University, Rome, Italy

**Interests:** multiple sclerosis; amyotrophic lateral sclerosis; neuromyelitis optica; cefalalgia; neurophthalmology; neurodegenerative diseases



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Departments Psychology and Neuroscience, School of Social Science and Human Services, Ramapo College of New Jersey, Mahwah, NJ 07430, USA

**Interests:** attention; auditory processing and language based learning disorders; cognitive development; risk and resiliency in early childhood

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Functional Neuroimaging and Complex Neural Systems Laboratory, Department of Psychology, University of Turin, 10124 Turin, Italy

**Interests:** Bayesian methods; meta-analysis; fMRI

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Department of Clinical and Experimental Medicine, Università di Pisa, Pisa, Italy

**Interests:** psychiatry diseases; autism; affective disorders; clinical pharmacology; assessment; treatment

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Allen Institute for Brain Science, Allen Institute, Seattle, WA, USA

**Interests:** neuroanatomy; neural circuits; neurodevelopment and comparative brain atlases and cell types

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**Interests:** neuroimaging; neuroinformatics; artificial intelligence in medicine; signal and image analysis; human vision



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**Interests:** ion channels; synaptic transmission and plasticity; patch-clamp; optogenetics; neural circuits



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Neuroengineering and Informatics for Rehabilitation and Simulation-Based Learning, University of Lincoln, Lincoln LN6 7TS, UK

**Interests:** neuromodulation; rehabilitation engineering; simulation-based learning

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Biomedical Engineering, Health Science Center, Shenzhen University, Shenzhen 518060, China

**Interests:** medical image analysis; magnetic resonance imaging; pattern recognition; neuroscience; machine learning; deep learning; computer-aided diagnosis and detection

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**Interests:** neuromodulation; noradrenaline; locus coeruleus; memory consolidation; brain state; sleep; attention; cognitive flexibility

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**Dr. Marco Fabbri**

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**Interests:** circadian rhythms; sleep; time perception

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**Interests:** cortical neuroprostheses; motor control; visuomotor integration; grasping; reaching



**Prof. Dr. Konstantinos N. Fountoulakis**

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3rd Department of Psychiatry, Division of Neurosciences, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

**Interests:** general psychiatry; biological psychiatry; psychopharmacology; mood disorders; schizophrenia; personality disorders



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Department of Diagnostics and Technology, Fondazione IRCCS Istituto Neurologico Carlo Besta, Via Celoria 11, 20133 Milano, Italy

**Interests:** cognitive functions (e.g. declarative memory, executive functions, theory of mind, and social cognition); neuropsychology; psychopathology in neurological patients; epilepsy; brain lesions (e.g. brain tumours); neurodegenerative dementia (e.g. frontotemporal dementia, posterior cortical atrophy syndrome, Alzheimers disease); Creutzfeldt-Jakob disease (CJD)

**Dr. Fabio Giovannelli**

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Section of Psychology—Department of Neuroscience, Psychology, Drug Research and Child's Health (NEUROFARBA), University of Florence, 50135 Florence, Italy

**Interests:** inhibitory control; impulsivity; awareness of motor intention; cognitive aging; TMS; neuropsychology

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Department of Biomedical Engineering, Imam Reza International University, Mashhad, Razavi Khorasan, Iran

**Interests:** biomedical signal processing; electroencephalography (EEG); nonlinear dynamics; affect recognition; computational neuroscience

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**Interests:** psychiatry; brain; neuroscience; genetics; bioinformatics; non-coding RNA; transcriptional regulation; epigenetics

**Dr. Jiasu Qiu**

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Datun Road, Chaoyang District, Beijing 100101, China  
**Interests:** psychiatric diseases; major depression; anxiety; stress; neuropharmacology

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Neuroscience Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran

**Interests:** addiction; neuropeptide and reward-related processing; drug- and stress-induced changes in reward circuitry; decision-making and addiction; deep brain stimulation; electrophysiology

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**Interests:** neuroimmunology; multiple sclerosis; neuromyelitis optica spectrum disorders; myelin oligodendrocyte glycoprotein antibody-associated disease; autoimmune encephalitis; microglia; monocytes; leukoenceph



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**Interests:** astrocyte; synapse; heterogeneity; genetic tools



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**Dr. Xiaofei Hu**

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**Interests:** fMRI/dMRI/MRI; quantitative imaging; artificial intelligence; radiomics; network neuroscience; cognitive neuroscience; genetic neuroimaging; biomarkers; Parkinson's disease; stroke; cerebral small vessel disease; neuro-oncology



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**Interests:** perception and perceptual learning; brain plasticity; visual psychophysics



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2. Neuromodulation Lab, Ahmanson-Lovelace Brain Mapping Center, David Geffen School of Medicine at UCLA, Los Angeles, CA 90095, USA

**Interests:** brain imaging; non invasive brain stimulation; social cognition

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School of Medicine, University of Pittsburgh, Pittsburgh, PA 15213, USA

**Interests:** molecular psychiatry; psychiatric disorders; neuroimaging genetics; neurodevelopmental risk factors for psychiatric disorders; clinical high risk for psychosis; first-episode and early-course psychosis



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**Interests:** Alzheimer's disease; cerebrovascular disease; neuroinflammation; microglia; autophagy

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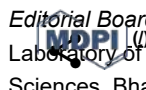
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**Interests:** neurogenesis; hippocampus



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**Interests:** neuromodulation; suicide prevention; culture-bound syndrome

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**Dr. Mohammad Badruzzaman Khan**

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**Interests:** angiogenesis; behavior; cerebral blood flow (CBF); remote ischemic condition (RIC); vascular cognitive impairment and dementia (VCID); stroke; Alzheimer's disease; traumatic brain injury (TBI); white matter; NOS3; AMPK



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Department of Pharmaceutical Sciences, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur 440033, MS, India

**Interests:** behavioral pharmacology; behavioral neuroscience; reward and reinforcement; addiction; analgesia; neuropathic pain; neurodegenerative disorders; operant conditioning

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Section on Gene Structure and Disease, Laboratory of Cell and Molecular Biology, National Institute of Diabetes, Digestive and Kidney Diseases, Bethesda, USA

**Interests:** gene expression; stem cells; chromatin biology; biomarkers

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Department of Pharmaceutical and Administrative Sciences, Loma Linda University Health School of Pharmacy, Loma Linda, CA 92350, USA

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**Interests:** depression; treatment resistant depression; bipolar disorder; mood disorders; ketamine; psychopharmacology

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**Interests:** cognitive impairment and dementia; neuropsychiatric disorders; sleep disorders; glutamate-related neurological disorders; clinical neurophysiology; transcranial magnetic stimulation; neurosonology; neuroplasticity; translational neurosciences

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**Interests:** energy metabolism; antioxidant responses; inflammation; metabolism of tetrahydrobiopterin; biomarkers; chronic pain



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**Interests:** neuroscience; neuropathology; neurooncology; brain tumors; molecular pathology

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**Interests:** neuroimaging, ERP, emotion, developmental disorders; ADHD; depression

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**Interests:** moral cognition; moral emotion; social cognition; prosocial behavior; cognitive neuroscience; event-related potential; fMRI; neuroimaging

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**Interests:** speech motor control; auditory-vocal integration; motor speech disorders; Parkinson's disease; non-invasive brain stimulation (e.g. TMS, tDCS, tACS, etc); event-related potential; speech therapy; multi-modal neuroimaging

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**Interests:** machine learning; pattern recognition; neuroimage analysis; brain functional connectivity analysis; medical data adaptation; medical image retrieval



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**Interests:** neuroimaging; fMRI; EEG/ERP; memory; eye movements; visual memory; aging; hippocampus; medial temporal lobe

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neurodegeneration



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**Interests:** neurophysics; neurophysiology; stochastic resonance; central pattern generation; pre-movement potentials; noise; transcranial electrical stimulation; tRNS; photoplethysmography; H-reflex; traveling waves; topographic maps; neurotechnology



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**Interests:** genotyping; neuroscience; neurological diseases; comorbidity; sequencing; genetics; psychopathology; diagnosis; treatment; neuropsychopharmacology [Accept \(/accept\\_cookies\)](#)

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**Interests:** nuclear neurology (dementia—movement disorders); nuclear cardiology; nuclear oncology; nuclear endocrinology; positron emission tomography; radioimmunoassays

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*Editorial Board Member*

Department of Physiology and Biophysics, University of Colorado School of Medicine, Aurora, CO, USA

**Interests:** my expertise is in cholinergic systems with special emphasis on nicotinic receptor signaling. we work at the cellular and microcircuit level to examine how cholinergic systems modulate input output functions in specific circuits. we use slice electrophysiology, imaging optogenetics etc. to address questions in the field

**Prof. Dr. Claes Von Hofsten**

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*Editorial Board Member*

Department of Psychology, Uppsala University, 752 36 Uppsala, Sweden

**Interests:** early perception; cognition; brain development



**Dr. Chenbo Wang**

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*Editorial Board Member*

School of Psychology and Cognitive Science, East China Normal University, Shanghai, China

**Interests:** empathy; pain; social cognition; prosocial behavior; mental health; fMRI; EEG

**Prof. Dr. Qin Wang**

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*Editorial Board Member*

Department of Neuroscience & Regenerative Medicine, Medical College of Georgia Augusta University, Augusta, GA 30912, USA

**Interests:** neuropharmacology; GPCR; G protein; Alzheimer's disease; neural signaling



**Dr. Grzegorz Wyśiadecki**

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*Editorial Board Member*

Department of Normal and Clinical Anatomy, Medical University Lodz, 90-419 Lodz, Poland

**Interests:** neuroanatomy; peripheral nerves; skull base; brain imaging; psychology; personality psychology; psychotraumatology

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**Dr. Baba Yasuhiko**

*Editorial Board Member*

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Department of Neurology, Showa University Fujigaoka Hospital, Kanagawa, Japan  
Interests: movement disorders

**Prof. Dr. Yu-Feng Zang**

[Website \(https://www.hznu.edu.cn/c/2013-10-31/340217.shtml\)](https://www.hznu.edu.cn/c/2013-10-31/340217.shtml)

*Editorial Board Member*

Center for Cognition and Brain Disorders, the Affiliated Hospital of Hangzhou Normal University, Hangzhou, China

**Interests:** resting-state fMRI methodology and application to rTMS treatment and ADHD

**Dr. Ling-Li Zeng**

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*Editorial Board Member*

College of Intelligence Science and Technology, National University of Defense Technology, Changsha 410073, China

**Interests:** brain imaging analysis; brain-computer interface; pattern recognition; machine learning; fMRI; EEG

**Prof. Dr. Yi Zhang**

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*Editorial Board Member*

Center for Brain Imaging, School of Life Science and Technology, Xidian University, Xi'an 710126, China

**Interests:** neuroimaging; cognitive function; brain-gut interaction; obesity; bariatric surgery

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**Prof. Dr. Yi Zhang**

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*Editorial Board Member*

School of Cyber Science and Engineering, Sichuan University, Chengdu 610065, China

**Interests:** medical image analysis; medical imaging; image reconstruction

**Prof. Dr. Ying Zheng**

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*Editorial Board Member*

School of Psychology and Clinical Language Sciences, University of Reading, Reading, UK

**Interests:** systems neuroscience; mathematical modelling of local field potentials and EEG; neurovascular coupling; balance of synaptic excitation and inhibition



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**Dr. Ya-Qun Zhou**

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Department of Anesthesiology and Pain Medicine, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China

**Interests:** chronic pain; oxidative stress; mitochondrial dysfunction

**Dr. Jubin Abutalebi**

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*Section Board Member*

Centre for Neurolinguistics and Psycholinguistics (CNPL), Università Vita-Salute San Raffaele, Milano, Italy

**Interests:** cognitive neuroscience; experimental psychology; linguistics; neuropsychology; neurostimulation



**Dr. Agorastos Agorastos**

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*Section Board Member*

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- VA Center of Excellence for Stress and Mental Health (CESAMH), San Diego, CA, USA

**Interests:** stress; PTSD; trauma; depression; anxiety; panic; psychoneuroendocrinology; heart rate variability; autonomic nervous system; HPA-axis; stress-related disorders; psychoneuroimmunology

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**Dr. Fernando Aguado**

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*Section Board Member*

Department of Cell Biology, Physiology and Immunology, Faculty of Biology, University of Barcelona, 08028 Barcelona, Spain

**Interests:** secretory pathways; calcium; exocytosis; neuron-glia interaction; astrocytes; Alzheimer's disease



**Prof. Dr. Eugenio Aguglia**

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**Dr. Touqeer Ahmed**

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*Section Board Member*

Neurobiology Laboratory, Department of Healthcare Biotechnology, Atta-ur-Rahman School of Applied Biosciences, National University of Sciences and Technology, Islamabad 44000, Pakistan

**Interests:** learning and memory; cholinergic system; synaptic plasticity; metals neurotoxicity and behavioural neuroscience



**Prof. Dr. Zubair Ahmed**

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Neuroscience, Trauma and Ophthalmology, Institute of Inflammation and Ageing, University of Birmingham, Birmingham B15 2TT, UK

**Interests:** neurotrauma; CNS injury; spinal cord injury; optic nerve injury; apoptosis; CNS axon regeneration; neurotrophins; neuroprotection; molecular neuroscience

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**Prof. Dr. Claude Alain**

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*Section Board Member*

Department of Psychology, University of Toronto, Toronto, ON M5S 1A1, Canada

**Interests:** Auditory neuroscience; attention; memory; speech perception; aging; EEG; MEG; fMRI



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*Section Board Member*

Department of Health & Kinesiology, College of Health, University of Utah, UT 84112, USA

**Interests:** systems neuroscience; behavioral neuroscience; neuropsychology; cognitive neuroscience; motor learning; sleep; memory consolidation; neuroimaging; electroencephalography; neural plasticity; neuromodulation

**Prof. Dr. Nada Andelic**

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*Section Board Member*

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2. Research Centre for Habilitation and Rehabilitation Models and Services (CHARM), Faculty of Medicine, Institute of Health and Society, University of Oslo, 0373 Oslo, Norway

**Interests:** traumatic brain injury; rehabilitation; functional outcomes; health care services; unmet rehabilitation; healthcare needs

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**Prof. Dr. Paola Angelelli**

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*Section Board Member*

Department of History Society and Human Studies, University of Salento, Lecce, Italy

**Interests:** neuropsychology; cognitive neuropsychology; reading and writing development; learning disorders; dyslexia; spelling deficits



**Prof. Dr. Alessandro Antonietti**

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*Section Board Member*

Department of Psychology, Catholic University of the Sacred Heart, Largo Gemelli 1, 20123 Milan, Italy

**Interests:** cognitive enhancement; creativity; education and neuroscience; empowerment; language and music; learning; life skills; metacognition; neurostimulation; problem solving; rehabilitation

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**Prof. Dr. Bruno Aouizerate**

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Bordeaux, France  
**Interests:** immuno-inflammation; frontal-subcortical loops; cognition; motivation; major depression; obsessive-compulsive disorder

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**Prof. Dr. Trevor Archer**

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*Section Board Member*

Department of Psychology, University of Gothenburg, S-40020 Gothenburg, Sweden

**Interests:** neurotoxicity; neuropsychiatry; movement disorders; epigenetics; interventions

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**Dr. Lisa Arduino**

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*Section Board Member*

Department of Human Sciences, the LUMSA University, Rome, Italy

**Interests:** single word recognition; visuo-spatial attention; reading aloud; neglect dyslexia; neuropsychology of reading



**Dr. Pietro Aricò**

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*Section Board Member*

Department of Computer, Control, and Management Engineering "Antonio Ruberti", "Sapienza" University of Rome, 00185 Rome, Italy

**Interests:** brain-computer interface; neuroscience; signal-processing; machine learning

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**Prof. Dr. Paul Ashwood**

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*Section Board Member*

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**Dr. Giovanni Assenza**

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*Section Board Member*

Unit of Neurology, Neurophysiology, Neurobiology, Department of Medicine, Università Campus Bio Medico di Roma, 00128 Rome, Italy

**Interests:** epilepsy; EEG; VNS; tDCS; TMS; stroke

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**Prof. Dr. Alessio Avenanti**

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*Section Board Member*

Department of Psychology, University of Bologna, 40127 Bologna, Italy

**Interests:** social cognition; action observation; empathy; emotion; moral cognition; interoception; transcranial magnetic stimulation (TMS); transcranial electrical stimulation (tES); transcutaneous vagal nerve stimulation (tvNS); electroencephalography (EEG)



**Dr. Samar S. Ayache**

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*Section Board Member*

- EA4391 Excitabilité Nerveuse & Therapeutique, Université Paris Est Créteil, 94010 Creteil, France
- Neurophysiology department, Henri Mondor Hospital, 94010 Creteil, France

**Interests:** multiple sclerosis; MS fatigue; MS pain; neurophysiology; evoked potentials; electroencephalography; non-invasive brain stimulation

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**Prof. Dr. Hasan Ayaz**

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*Section Board Member*

School of Biomedical Engineering, Science and Health Systems, Drexel University, Philadelphia, PA 19104, USA

**Interests:** neuroergonomics; functional neuroimaging; biomedical signal processing; neuroengineering; functional near infrared spectroscopy (fNIRS); electroencephalogram (EEG); brain computer interfaces (BCI); mobile brain/body imaging (MoBI); cognitive workload; working memory; attention

**Prof. Dr. Tipu Aziz**

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*Section Board Member*

Department of Neurosurgery, John Radcliffe Hospital, University of Oxford, Oxford, UK

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Interests: Parkinson's disease; movement disorders; pain; functional neurosurgery

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Dr.  Sergio Bagnato

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Section Board Member

Unit of Neurophysiology and Unit for Severe Acquired Brain Injuries, Rehabilitation Department, Giuseppe Giglio Foundation, 90015 Cefalù, Italy

**Interests:** coma; disorders of consciousness; vegetative state; traumatic brain injury; biomarkers; clinical neurophysiology

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Dr. Ricardo Bajo

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Section Board Member

1. Bioengineering group. Industrial Engineering Department, Faculty of Science, Universidad de La Laguna, Tenerife, Spain

2. Bioelectromagnetism Group, Faculty of Physical Sciences, Complutense University of Madrid, Madrid, Spain

**Interests:** functional connectivity; magnetoencephalography (MEG); electroencephalography (EEG); brain electrophysiology; dementia; Alzheimer's disease diagnosis



Dr. Basavaraj S. Balapal

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Section Board Member

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2. Faculty at Columbia University Medical Center, Scientist, Center for Dementia Research, Nathan Kline Institute for Psychiatric Research, Orangeburg, New York, NY, USA

**Interests:** endocannabinoids; synaptic plasticity; FASD; AUD; neurodegeneration; learning and memory; epigenetics; gene expression; behavior

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Dr. Michela Balconi

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Section Board Member

International Research Center for Cognitive Applied Neuroscience (Irc-CAN), Catania University

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Sacred Heart, 20123 Milan, Italy

Interests: neuroscience; psychophysiology; neurophysiology; social; emotions; hyperscanning; non-verbal communication; neuromanagement; neuroeconomics



Dr. Bénédicte Ballanger

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Section Board Member

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2. Université Claude Bernard Lyon 1, 69100 Villeurbanne, France

3. INSERM, U 1028, Lyon Neuroscience Research Center, 69000 Lyon, France

4. CNRS, UMR 5292, Lyon Neuroscience Research Center, 69000 Lyon, France

**Interests:** Parkinson's disease; neuroimaging; PET; neurotransmission; noradrenaline; dopamine; serotonin; executive control; inhibitory control; motor control; non-motor symptoms

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Prof. Dr. Piero Barbanti

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Section Board Member

1. San Raffaele University, Rome, Italy

2. Headache and Pain Unit, Department of Neurological, Motor and Sensorial Sciences, IRCCS San Raffaele Pisana, Rome, Italy

**Interests:** headache; migraine; medication-overuse; pain mechanisms; neuropharmacology

Prof. Dr. Stefano Barlati

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Section Board Member

1. Department of Clinical and Experimental Sciences, University of Brescia, Brescia, Italy

2. Department of Mental Health and Addiction Services, ASST Spedali Civili di Brescia, Brescia, Italy

**Interests:** clinical psychiatry; schizophrenia; mood disorders; cognitive functions in severe mental illness; cognitive remediation in severe mental illness; psychiatric rehabilitation in severe mental illness

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Dr. Rita Barone

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Section Board Member

Department of Clinical and Experimental Medicine, Child Neuropsychiatry Section - University of Catania, Catania, Italy

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Interests: Autism Spectrum Disorder, Inherited Metabolic Diseases; Child Neurology and Psychiatry

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Prof. Dr. Mera S Barr

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*Section Board Member*

Department of Psychiatry, University of Toronto, Toronto, ON M5T 1R8, Canada

**Interests:** brain stimulation; neurophysiology; EEG; cognition; substance and non-substance use disorders; schizophrenia; major depressive disorder; Alzheimer's disease; post-traumatic stress disorder

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**Prof. Dr. Célyne Bastien**

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*Section Board Member*

École de Psychologie and Centre d'Étude des Troubles du Sommeil, Université Laval, Ste-Foy, QC G1K 7P4, Canada

**Interests:** sleep; sleep disorders; insomnia; dreams; nightmares; depression; anxiety; treatment; COMISA; sleep deprivation

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**Dr. Kyle M. Baumbauer**

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*Section Board Member*

1. Department of Anatomy and Cell Biology, University of Kansas Medical Center, Kansas City KS 66160, UK
2. Department of Anesthesiology, University of Kansas Medical Center, Kansas City KS 66160, UK

**Interests:** inflammation; spinal cord injury; low back pain; transition to chronic pain; peripheral mechanisms of pain



**Dr. Andrea Carmine Belin**

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*Section Board Member*

Department of Neuroscience, Karolinska Institute, Stockholm, S-141 86, Stockholm, Sweden

**Interests:** circadian rhythm; neurology

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**Dr. Michele Bellesi**

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**Website** ([https://research-information.bris.ac.uk/en/persons/michele-bellesi\(915221cf-666e-4549-8b1e-c29395e45410\).html](https://research-information.bris.ac.uk/en/persons/michele-bellesi(915221cf-666e-4549-8b1e-c29395e45410).html))

**SciProfiles** (<https://sciprofiles.com/profile/1217815>)

*Section Board Member*

School of Physiology, Pharmacology & Neuroscience, University of Bristol, Bristol BS8 1TD, UK

**Interests:** sleep; sleep deprivation; homeostasis; neuroglia; noradrenaline; electron microscopy



**Dr. Alfredo Bellon**

**Website** (<https://pennstate.pure.elsevier.com/en/persons/alfredo-bellon>)

**SciProfiles** (<https://sciprofiles.com/profile/1217815>)

*Section Board Member*

Hershey Medical Center, Department of Psychiatry, Penn State University School of Medicine, Hershey, PA 17033, USA

**Interests:** stem cells; transdifferentiation; neuronal structure; axon; dendrites; neurites; schizophrenia; dopamine; neurodevelopment and cytoskeleton



**Prof. Dr. Roy Beran**

**Website** (<https://swscs.med.unsw.edu.au/people/professor-roy-beran>)

**SciProfiles** (<https://sciprofiles.com/profile/2062986>)

*Section Board Member*

Department of Medicine, Sydney South Western Sydney Clinical School, University of New South Wales, Sydney, Australia

**Interests:** epilepsy; health law & ethics; drug trials; legal medicine; rehabilitation

**Dr. Sagnik Bhattacharyya**

**Website** (<https://kclpure.kcl.ac.uk/portal/sagnik.2.bhattacharyya.html>)

**SciProfiles** (<https://sciprofiles.com/profile/651453>)

*Section Board Member*

Department of Psychosis Studies, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London, United Kingdom

**Interests:** psychosis; neuropsychopharmacology; brain imaging; cannabinoids; cognitive neuroscience

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**Dr. Saugat Bhattacharyya**

**Website** (<http://http://saugatbhattacharyya.com>)

**SciProfiles** (<https://sciprofiles.com/profile/1172735>)

*Section Board Member*

School of Computing, Engineering & Intelligent Systems, Ulster University, Londonderry BT48 7JL, UK

**Interests:** machine learning; artificial intelligence; bio-signal processing; human-machine interaction; neuro-rehabilitation; physiological signals

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**Dr. Arnan Bieber**

**SciProfiles** (<https://sciprofiles.com/profile/2326852>)

Section Board Member

Department of Neurologic Surgery, Mayo Clinic, Rochester, MN 55905, USA

**Interests:** Multiple sclerosis; Myelin; Oligodendrocyte; Experimental autoimmune encephalitis (EAE); Theiler's virus; Neuroimmunology; Neurovirology; Drosophila; Neural development; Neurogenetics; Parkinson's Disease; Deep Brain Stimulation (DBS)



**Dr. Matteo Bologna**

**Website** (<https://gomppublic.uniroma1.it/Docenti/Render.aspx?UID=1a721a25-80bc-4994-80c2-b8db168f3ba1>)

Section Board Member

Department of Human Neurosciences, Sapienza University of Rome, 00185 Rome, Italy

**Interests:** motor neurosciences; movement disorders

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**Prof. Dr. Erika Borella**

**Website** (<https://www.dpg.unipd.it/en/erika-borella>)

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Section Board Member

Department of General Psychology, University of Padova, Padova, Italy

**Interests:** aging; individual differences; working memory; cognitive training; cognitive inhibition; dementia



**Dr. Gianluca Borghini**

**Website** ([https://web.uniroma1.it/lab\\_nsi/en/labnsi/labnsi/about/team/gianluca-borghini](https://web.uniroma1.it/lab_nsi/en/labnsi/labnsi/about/team/gianluca-borghini))

**SciProfiles** (<https://sciprofiles.com/profile/595805>)

Section Board Member

Department of Molecular Medicine, Sapienza University of Rome, 00185 Rome, Italy

**Interests:** cognitive neuroscience; machine learning; neuroscience; signal processing

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**Dr. Marco Bove**

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Section Board Member

1. Department of Experimental Medicine, Section of Human Physiology, University of Genoa, Genoa, Italy

2. IRCCS Ospedale Policlinico San Martino, Genoa, Italy

**Interests:** sensorimotor integration; proprioception; neuroplasticity; action observation; motor imagery; neuroimaging; transcranial magnetic stimulation; multiple sclerosis; neurorehabilitation; sport neuroscience



**Dr. Mulugu V. Brahmajothi**

**Website** (<https://dukeahead.duke.edu/members/mulugu-brahmajothi>)

**SciProfiles** (<https://sciprofiles.com/profile/1299728>)

Section Board Member

Department of Pharmacology & Cancer Biology, Duke University School of Medicine, Durham, NC 27710, USA

**Interests:** neuroimmunology; neurotoxicology; glymphatics; neuroglia; neuropathy; astroglial; neuroinflammation; cognitive changes and the resulting brain function; neurodegenerative disorders; Human Immunology & immunogenetics



**Dr. James Brasic**

**Website** (<https://my.jh.edu/people/jbrasic1>)

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Section Board Member

Section of High Resolution Brain Positron Emission Tomography Imaging, Division of Nuclear Medicine and Molecular Imaging, The Russell H. Morgan Department of Radiology and Radiological Science, The Johns Hopkins University School of Medicine, Baltimore, MD, USA

**Interests:** autism spectrum disorder (ASD); catatonia; movement disorders; neurobehavioral measurements; neurodevelopmental disabilities; neurodegenerative disorders; positron emission tomography (PET); rating scales; schizophrenia; signal processing

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**Dr. Piotr Bregestovski**

**Website** ([https://www.researchgate.net/profile/Piotr\\_Bregestovski](https://www.researchgate.net/profile/Piotr_Bregestovski))

**SciProfiles** (<https://sciprofiles.com/profile/1464443>)

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**Interests:** Cys-loop receptors; ion channels; synaptic transmission; genetically encoded biosensors; optopharmacology

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**Dr. Rossella Breveglieri**  
[Website \(https://www.unibo.it/sitoweb/rossella.breveglieri/cv\)](https://www.unibo.it/sitoweb/rossella.breveglieri/cv)

[SciProfiles \(https://sciprofiles.com/profile/1802199\)](https://sciprofiles.com/profile/1802199)

Section Board Member

Department of Biomedical and Neuromotor Sciences, University of Bologna, Bologna, Italy

**Interests:** transcranial magnetic stimulation; visuomotor behaviour; parietal cortex; single-cell recordings



**Dr. Filippo Brighina**

[Website \(https://scholar.google.com/citations?user=47rDiuUAAAAJ&hl=it\)](https://scholar.google.com/citations?user=47rDiuUAAAAJ&hl=it)

[SciProfiles \(https://sciprofiles.com/profile/1220068\)](https://sciprofiles.com/profile/1220068)

Section Board Member

Department of Biomedicine, Neuroscience and advanced Diagnostics (BIND), University of Palermo,

Via del Vespro 143, 90129 Palermo, Italy

**Interests:** headache; neurology and neuromuscular diseases; neurology, neurorehabilitation, neuromodulation, non-invasive brain stimulation; neuroscience

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**Prof. Dr. Bruno Brochet**

[Website1 \(https://neurocentre-magendie.fr/recherche/page\\_perso.php\)](https://neurocentre-magendie.fr/recherche/page_perso.php) [Website2 \(https://www.imscogs.com/about-imscogs/executive-board/prof-bruno-brochet.html\)](https://www.imscogs.com/about-imscogs/executive-board/prof-bruno-brochet.html)

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Section Board Member

Magendie Neurocentre, Bordeaux University, INSERM, 33000 Bordeaux, France

**Interests:** multiple sclerosis; cognition; imaging; symptoms; neuropsychology



**Prof. Dr. Patricia A. Broderick**

[Website \(https://www.cuny.cuny.edu/profiles/patricia-broderick\)](https://www.cuny.cuny.edu/profiles/patricia-broderick)

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Section Board Member

1. Department of Molecular, Cellular and Biomedical Sciences, CUNY School of Medicine, The City College of New York, New York, NY 10031, USA

2. Adjunct Professor in Neurology, NYU Langone Medical Center & Comprehensive Epilepsy Center, New York, NY 10016, USA

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**Interests:** bioprobes; neurochemicals; in vitro; in vivo; in situ; brain; behavior; neurosystem disorders and treatment

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**Dr. Jan Brogger**

[Website \(https://scholar.google.co.jp/citations?user=zKIIIRcAAAAJ&hl=zh-TW&oi=sra\)](https://scholar.google.co.jp/citations?user=zKIIIRcAAAAJ&hl=zh-TW&oi=sra)

[SciProfiles \(https://sciprofiles.com/profile/1579994\)](https://sciprofiles.com/profile/1579994)

Section Board Member

1. Department of Clinical Neurophysiology, Haukeland University Hospital, Bergen, Norway

2. Department of Clinical Medicine, Faculty of Medicine, University of Bergen, Bergen, Norway

**Interests:** epilepsy; epileptiform activity; EEG; neurophysiology; stroke; intraoperative neurophysiological monitoring; reproducible research; first seizure

**Prof. Dr. David Brown**

[Website \(https://researchportal.bath.ac.uk/en/persons/david-brown\)](https://researchportal.bath.ac.uk/en/persons/david-brown)

[SciProfiles \(https://sciprofiles.com/profile/137332\)](https://sciprofiles.com/profile/137332)

Section Board Member

Department of Biology and Biochemistry, University of Bath, Bath BA2 7AY, UK

**Interests:** prion; synuclein; aging; microglia; neurodegeneration

**Dr. Stefan M. Brudzynski**

[Website \(https://brocku.ca/social-sciences/psychology/people/brudzynski/\)](https://brocku.ca/social-sciences/psychology/people/brudzynski/)

[SciProfiles \(https://sciprofiles.com/profile/1167738\)](https://sciprofiles.com/profile/1167738)

Section Board Member

Dept Psychology, Brock Univ, 1812 Sir Isaac Brock Way, St Catharines, ON L2S 3A1, Canada

**Interests:** rat acoustic communication; ultrasonic vocalization; 22 kHz calls; 50 kHz calls; vocal expression of emotion; emotional arousal

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**Dr. Maria Pia Bucci**

[Website \(https://expertes.fr/expertes/67008-maria+pia-bucci\)](https://expertes.fr/expertes/67008-maria+pia-bucci)

[SciProfiles \(https://sciprofiles.com/profile/1142749\)](https://sciprofiles.com/profile/1142749)

Section Board Member

MoDyCo UR7114, CNRS-Université Paris Nanterre, 92001 Paris, France

**Interests:** neuroscience; dyslexia; behavioral issues; learning disabilities

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**Dr. Hualin Cai**

[Website \(https://www.xyeyy.com/5/38/101/411/content\\_62634.html\)](https://www.xyeyy.com/5/38/101/411/content_62634.html)

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Section Board Member

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1. Department of Pharmacy, the Second Xiangya Hospital of Central South University, Changsha, Hunan Province, China

2. Institute of Clinical Pharmacy, Central South University, Changsha, Hunan Province, China

**Interests:** biomarker; schizophrenia; depression; antipsychotic drug; lipid metabolism

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metabolism; cognitive deficits; neuroendocrinology



**Prof. Dr. Pasquale Calabrese**

**Website** (<https://npvn.mcn.unibas.ch/team/pasquale-calabrese>)

**SciProfiles** (<https://sciprofiles.com/profile/1116383>)

*Section Board Member*

Head of Department of Neuropsychology and Behavioral Neurology Unit, Interdisciplinary Platform Psychiatry and Psychology, Division of Molecular and Cognitive Neuroscience, University of Basel, Birmannsgasse 8, CH-4055 Basel, Switzerland

**Interests:** multiple sclerosis; Parkinson's disease; dementia; depression; stress and cognition

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**Dr. Rocco Salvatore Calabrò**

**Website** (<https://loop.frontiersin.org/people/136962/overview>)

*Section Board Member*

IRCCS Centro Neurolesi Bonino Pulejo, Neurology Unit, 98124 Messina, Italy

**Interests:** robotic rehabilitation; neurosexology; disorders of consciousness

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**Prof. Dr. Martín Cammarota**

**Website** (<http://lattes.cnpq.br/4888317387600937>)

**SciProfiles** (<https://sciprofiles.com/profile/2550706>)

*Section Board Member*

Memory Research Laboratory, Brain Institute, Federal University of Rio Grande do Norte, Natal, RN 59078-900, Brazil

**Interests:** learning and memory neurobiology; stress neurobiology; neuroplasticity



**Dr. Alvaro Campero**

**Website** (<http://www.alvarocampero.com.ar/>)

**SciProfiles** (<https://sciprofiles.com/profile/2462568>)

*Section Board Member*

Department of Neurosurgery, Padilla Hospital, Tucumán, Argentina

**Interests:** neurosurgery; neuroanatomy; skull base

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**Dr. Erick Jorge Canales-Rodríguez**

**Website** (<https://sites.google.com/site/ejcanalesr>)

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*Section Board Member*

Signal Processing Laboratory 5 (LTS5), École Polytechnique Fédérale de Lausanne, EPFL-STI-IEL-LTS5, Station 11, CH-1015 Lausanne, Switzerland

**Interests:** neuroimaging; diffusion-weighted MRI; High Angular Resolution Diffusion Imaging (HARDI); spherical deconvolution; tissue microstructure; myelin water imaging; multi-component T2 relaxometry; inverse problems; machine learning



**Prof. Dr. José Juan Cañas**

**Website** (<https://www.ugr.es/personal/3b69b314217441e78c14bdca182b682e>)

*Section Board Member*

Department of Experimental Psychology, University of Granada, 18011 Granada, Spain

**Interests:** cognitive ergonomics; neuroergonomics; human factors; mental representation; cognitive flexibility; interface design; risk behaviour; mental workload; air traffic control

**Prof. Dr. Marcello Canonaco**

**Website** ([https://www.unical.it/portale/strutture/dipartimenti\\_240/dibest/docenti/canonaco/](https://www.unical.it/portale/strutture/dipartimenti_240/dibest/docenti/canonaco/))

*Section Board Member*

Comparative Neuroanatomy Laboratory, Biology, Ecology and Earth Science Department, University of Calabria, Arcavacata di Rende, Italy

**Interests:** inhibitory/excitatory neuronal circuits; GABAA receptor system; neurodegeneration syndromes; obesity disorders; orexinergic neuronal system



**Dr. Wayne Carter**

**Website1** (<https://www.nottingham.ac.uk/news/expertiseguide/medicine/dr-wayne-carter.aspx>)

**Website2** (<https://www.nottingham.ac.uk/medicine/people/wayne.carter>)

**SciProfiles** (<https://sciprofiles.com/profile/14973>)

*Section Board Member*

Clinical Toxicology, School of Medicine, The University of Nottingham, Nottingham NG7 2RD, UK

**Interests:** biomedicines; neurotoxicity; neurodegeneration

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**Dr. Maurizio Casarrubea**

**Website** (<https://www.unipa.it/persona/docenti/c/maurizio.casarrubea/en/>)

**SciProfiles** (<https://sciprofiles.com/profile/768249>)

*Section Board Member*

Assistant Professor of Human Physiology, Laboratory of Behavioural Physiology, Human Physiology Section "Giuseppe Pagano", University of Palermo, Palermo, Italy

**Interests:** animal behaviour; rodent behaviour; behavioural analysis; T-pattern analysis; behavioural

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analyses based on elaboration of transition matrices; behavioural animal models; behavioural observations; exploratory behaviour; elevated plus maze; hole-board; open-field; water-maze; fear conditioning



**Prof. Dr. Clara Casco**

**Website** (<https://www.dpg.unipd.it/en/clara-casco>)

*Section Board Member*

Department of General Psychology, Padua University, Italy

**Interests:** spatial vision (lateral interactions between spatial channels); psychophysics of visual motion; crowding; perceptual learning; brain plasticity; transcranial brain stimulation; low vision rehabilitation; contrast sensitivity in dyslexia



**Dr. Marco Cavallo**

**Website** ([https://www.researchgate.net/profile/Marco\\_Cavallo](https://www.researchgate.net/profile/Marco_Cavallo))

**SciProfiles** (<https://sciprofiles.com/profile/1167378>)

*Section Board Member*

Faculty of Psychology, eCampus University, 22060 Novedrate (Como), Italy

**Interests:** cognitive functions; experimental and clinical studies of neurodegenerative diseases; neuropsychological assessment; neuropsychological rehabilitation; design and implementation of multi-centric clinical trials to investigate therapeutic intervention efficacy; theory of mind

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**Dr. Alessia Celeghin**

**Website** (<https://www.dippsicologia.unito.it/persone/alessia.celeghin>)

**SciProfiles** (<https://sciprofiles.com/profile/2453714>)

*Section Board Member*

Department of Psychology, University of Torino, 10124 Torino, Italy

**Interests:** visual awareness; blindsight; attention; emotion recognition; emotional contagion; laughter; yawning; implicit processes; clinical neuropsychology; subcortical neuroanatomy (superior colliculus; basal ganglia; pulvinar)

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**Prof. Dr. Elisabeth Gulowsen Celius**

**Website** (<https://www.med.uio.no/klinmed/personer/vit/elisagc/index.html>)

*Section Board Member*

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1. Department of Neurology, Oslo University Hospital, Oslo, Norway
2. Institute of Clinical Medicine, University of Oslo, Oslo, Norway

**Interests:** multiple sclerosis; neuroinflammation; epidemiology



**Dr. Leila Chaieb**

**Website** (<https://scholar.google.com/citations?user=IB6vXFoAAAAJ&hl=en>)

**SciProfiles** (<https://sciprofiles.com/profile/2573390>)

*Section Board Member*

Department of Epileptology, University Hospital Bonn, Bonn, Germany

**Interests:** brain stimulation; auditory beat stimulation; mind wandering; cognitive neuroscience; neuroplasticity



**Dr. Moussa Antoine Chalah**

**Website** (<https://orcid.org/0000-0002-0880-8608>)

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*Section Board Member*

1. Excitabilité Nerveuse et Thérapeutique, Université Paris-Est-Créteil, 94000 Créteil, France
2. Service de Physiologie - Explorations Fonctionnelles, Hôpital Henri Mondor, Assistance Publique - Hôpitaux de Paris, 94000 Créteil, France

**Interests:** neurosciences; multiple sclerosis; Transcranial Magnetic Stimulation (TMS); Transcranial Direct- Current Stimulation (tDCS)

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**Dr. Su-Youne Chang**

**Website** (<http://www.mayo.edu/research/faculty/chang-su-youne-ph-d/bio-00097080>)

**SciProfiles** (<https://sciprofiles.com/profile/385828>)

*Section Board Member*

Department of Neurologic Surgery, Mayo Clinic, 200 First Street SW, Rochester, MN 55905, USA

**Interests:** neuromodulation; synaptic plasticity; neuro-glia interaction; functional restoration; neurodegenerative disorders

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**Dr. Melissa Chee**

**Website** (<http://cheelab.ca/>)

*Section Board Member*

Department of Neuroscience, Carleton University, Ottawa, Ontario, K1S 5B6, Canada

**Interests:** hypothalamus; neuroanatomy; electrophysiology; optogenetics; neurocircuitry; hormones; obesity

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Dr. Julia A. Chester

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Section Board Member

Department of Psychological Sciences, Purdue University, West Lafayette, IN 47907, USA

**Interests:** alcohol use disorders; psychiatric disorders; sex differences; stress; genetics; pharmacology; reward; aversion; animal modeling

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Dr. Soi Moi Chye

[Website \(https://www.researchgate.net/profile/Chye-Soi-Moi\)](https://www.researchgate.net/profile/Chye-Soi-Moi)

Section Board Member

School of Health Science, Division of Biomedical Science and Biotechnology, International Medical University, Kuala Lumpur, Malaysia

**Interests:** Alzheimer's disease; toxicology



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**Brain Sci., Volume 10, Issue 2 (February 2020) – 70 articles**

**Cover Story** ([view full-size image \(/files/uploaded/covers/brainsci/big\\_cover-brainsci-v10-i2.png\)](#)): Lemur tyrosine-kinase 2 (LMTK2) is implicated in several physiological and pathological processes. Recent studies have found decreased LMTK2 level in Alzheimer's disease (AD). However, the relation between LMTK2 and neurofibrillary tangles (NFTs) as the hallmark pathological alteration of AD has not yet been investigated. The main constituent of NFTs is the hyperphosphorylated tau protein. Therefore, we performed LMTK2/phospho-tau fluorescent double-labelling immunohistochemistry in different neuropathological Braak tau stages of AD. We detected a strong negative correlation between the expression of LMTK2 and the level of tau protein.

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Open Access Opinion   (/2076-3425/10/2/127/pdf?version=1582525240)**Functional and Dysfunctional Neuroplasticity in Learning to Cope with Stress (/2076-3425/10/2/127)**by [Simona Cabib \(https://sciprofiles.com/profile/803126\)](#),[Paolo Campus \(https://sciprofiles.com/profile/author/TUdwcXRHeUJabkVzbCtMWmDSnMvK0ZuN2N4Q1NJOGJyWmM2RDRWZw5RYz0=\)](#),[David Conversi \(https://sciprofiles.com/profile/487262\)](#), [Cristina Orsini \(https://sciprofiles.com/profile/982387\)](#) and[Stefano Puglisi-Allegra \(https://sciprofiles.com/profile/1291230\)](#)*Brain Sci.* 2020, 10(2), 127; <https://doi.org/10.3390/brainsci10020127> (<https://doi.org/10.3390/brainsci10020127>) - 24 Feb 2020Cited by 8 ([/2076-3425/10/2/127#metrics](#)) | Viewed by 4651**Abstract** In this brief review, we present evidence of the primary role of learning-associated plasticity in the development of either adaptive or maladaptive coping strategies.Successful interactions with novel stressors foster plasticity within the neural circuits supporting acquisition, consolidation, retrieval, and extinction of instrumental [\[...\]](#) [Read more](#).(This article belongs to the Special Issue [Molecular Regulation of Learning-induced Neuronal Plasticity \(/journal/brainsci/special\\_issues/Learning-induced\\_Neuronal\\_Plasticity\)](#))

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[https://pub.mdpi-res.com/brainsci/brainsci-10-00126/article\\_deploy/html/images/brainsci-10-00126-g001-550.jpg?1583594260](https://pub.mdpi-res.com/brainsci/brainsci-10-00126/article_deploy/html/images/brainsci-10-00126-g001-550.jpg?1583594260) ([https://pub.mdpi-res.com/brainsci/brainsci-10-00126/article\\_deploy/html/images/brainsci-10-00126-g002-550.jpg?1583594260](https://pub.mdpi-res.com/brainsci/brainsci-10-00126/article_deploy/html/images/brainsci-10-00126-g002-550.jpg?1583594260)) ([https://pub.mdpi-res.com/brainsci/brainsci-10-00126/article\\_deploy/html/images/brainsci-10-00126-g003-550.jpg?1583594260](https://pub.mdpi-res.com/brainsci/brainsci-10-00126/article_deploy/html/images/brainsci-10-00126-g003-550.jpg?1583594260)) ([https://pub.mdpi-res.com/brainsci/brainsci-10-00126/article\\_deploy/html/images/brainsci-10-00126-g004-550.jpg?1583594260](https://pub.mdpi-res.com/brainsci/brainsci-10-00126/article_deploy/html/images/brainsci-10-00126-g004-550.jpg?1583594260))Open Access Editorial   (/2076-3425/10/2/125/pdf?version=1582426062)**Could Transcranial Direct Current Stimulation Join the Therapeutic Armamentarium in Obsessive-Compulsive Disorder? (/2076-3425/10/2/125)**by [Moussa A. Chalah \(https://sciprofiles.com/profile/211324\)](#) and [Samar S. Ayache \(https://sciprofiles.com/profile/493852\)](#)*Brain Sci.* 2020, 10(2), 125; <https://doi.org/10.3390/brainsci10020125> (<https://doi.org/10.3390/brainsci10020125>) - 23 Feb 2020Cited by 3 ([/2076-3425/10/2/125#metrics](#)) | Viewed by 2320**Abstract** Obsessive-compulsive disorder (OCD) is a mental disorder that can affect around 1–3% of individuals [\[...\]](#) [Full article \(/2076-3425/10/2/125\)](#)(This article belongs to the Section [Neural Engineering, Neuroergonomics and Neurorobotics \(/journal/brainsci/sections/Neural\\_Engineering\\_Neuroergonomics\\_Neurorobotics\)](#))Open Access Article   (/2076-3425/10/2/124/pdf?version=1582510662) **Evaluating Preschool Visual Attentional Selective-Set: Preliminary ERP Modeling and Simulation of Target Enhancement Homology (/2076-3425/10/2/124)**by [Amedeo D'Angiulli \(https://sciprofiles.com/profile/524315\)](#), [Dao Anh Thu Pham \(https://sciprofiles.com/profile/1770092\)](#),[Gerry Leisman \(https://sciprofiles.com/profile/967792\)](#) and [Gary Goldfield \(https://sciprofiles.com/profile/23369\)](#)*Brain Sci.* 2020, 10(2), 124; <https://doi.org/10.3390/brainsci10020124> (<https://doi.org/10.3390/brainsci10020124>) - 22 Feb 2020Cited by 4 ([/2076-3425/10/2/124#metrics](#)) | Viewed by 3824**Abstract** We reanalyzed, modeled and simulated Event-Related Potential (ERP) data from 13 healthy children (Mean age = 5.12, Standard Deviation = 0.75) during a computerized visual sustained target detection task. Extending an ERP-based ACT-R (Adaptive Control of Thought-Rational) neurocognitive modeling approach, we tested whether [\[...\]](#) [Read more](#).(This article belongs to the Special Issue [ERP and EEG Markers of Brain Visual Attentional Processing \(/journal/brainsci/special\\_issues/Brain\\_Visual\\_Attentional\\_Processing\)](#))

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## Development of Spontaneous Epileptic Activity. (2076-3425/10/2/123)

by [Bernd Frerker](https://sciprofiles.com/profile/2589986) (https://sciprofiles.com/profile/2589986), [Marco Rohde](https://sciprofiles.com/profile/1959047) (https://sciprofiles.com/profile/1959047),

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[Christian G. Bien](https://sciprofiles.com/profile/author/OVhYM1NkNysybUtlR0VvcWdhaU11TWFhQUk3VyUNFc3NWFkY0w2dkxJUT0=) (https://sciprofiles.com/profile/author/OVhYM1NkNysybUtlR0VvcWdhaU11TWFhQUk3VyUNFc3NWFkY0w2dkxJUT0=),

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*Brain Sci.* 2020, 10(2), 123; <https://doi.org/10.3390/brainsci10020123> (https://doi.org/10.3390/brainsci10020123) - 22 Feb 2020

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**Abstract** Background: The conversion of glutamic acid into  $\gamma$ -aminobutyric acid (GABA) is catalyzed by the glutamic acid decarboxylase (GAD). Antibodies against this enzyme have been described in neurological disorders, but the pathophysiological role of these antibodies is still poorly understood. We hypothesized that [...] [Read more](#). (This article belongs to the Special Issue [Synaptic Changes in Epilepsy](#) (*/journal/brainsci/special\_issues/Synaptic\_Epilepsy*))

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## Enhancing $\alpha$ -secretase Processing for Alzheimer's Disease—A View on SFRP1 (2076-3425/10/2/122)

by [Bor Luen Tang](https://sciprofiles.com/profile/146299) (https://sciprofiles.com/profile/146299)

*Brain Sci.* 2020, 10(2), 122; <https://doi.org/10.3390/brainsci10020122> (https://doi.org/10.3390/brainsci10020122) - 22 Feb 2020

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**Abstract** Amyloid  $\beta$  (A $\beta$ ) peptides generated via sequential  $\beta$ - and  $\gamma$ -secretase processing of the amyloid precursor protein (APP) are major etiopathological agents of Alzheimer's disease (AD). However, an initial APP cleavage by an  $\alpha$ -secretase, such as the disintegrin and metalloproteinase domain-containing protein ADAM10, [...] [Read more](#). (This article belongs to the Special Issue [Neuropathology of Alzheimer's Disease](#) (*/journal/brainsci/special\_issues/Neuropathology\_Alzheimer*))

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Open Access Editorial

(2076-3425/10/2/121/pdf?version=1582359661)

## ABCA7—A Member of the ABC Transporter Family in Healthy and Ailing Brain (2076-3425/10/2/121)

by [Alexei A. Surguchev](https://sciprofiles.com/profile/author/LzY4REhLd1Qxa3Y3YwXGUFvIvXBMNjd6cUR4am5XZUtHrNjTVmhhRDBNUT0=) (https://sciprofiles.com/profile/author/LzY4REhLd1Qxa3Y3YwXGUFvIvXBMNjd6cUR4am5XZUtHrNjTVmhhRDBNUT0=) and

[Andrei Surguchov](https://sciprofiles.com/profile/164871) (https://sciprofiles.com/profile/164871)

*Brain Sci.* 2020, 10(2), 121; <https://doi.org/10.3390/brainsci10020121> (https://doi.org/10.3390/brainsci10020121) - 22 Feb 2020

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**Abstract** Identification of genetic markers of a human disease, which is generally sporadic, may become an essential tool for the investigation of its molecular mechanisms. The role of ABCA7 in Alzheimer's disease (AD) was discovered less than ten years ago when meta-analyses provided evidence [...] [Read more](#).

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(2076-3425/10/2/120/pdf?version=1582359029)

## Behavioral and Neuropsychological Evaluation of Executive Functions in Children with Autism Spectrum Disorder in the Gulf Region (2076-3425/10/2/120)

by [Rehab H. Alsaedi](https://sciprofiles.com/profile/author/QWHPNXNSUTV4NU5iV1RTNF10UXdXY2dLVDI0NEIISENIdE0rWUZraIn5ND0=) (https://sciprofiles.com/profile/author/QWHPNXNSUTV4NU5iV1RTNF10UXdXY2dLVDI0NEIISENIdE0rWUZraIn5ND0=),

[Suzanne Carrington](https://sciprofiles.com/profile/author/cCtBRzJsZHRaeGpBeGRielhSeUlyciZzUytQN3V0eDVxa3EvU0xQYUvRT0=) (https://sciprofiles.com/profile/author/cCtBRzJsZHRaeGpBeGRielhSeUlyciZzUytQN3V0eDVxa3EvU0xQYUvRT0=) and

[James J. Waters](https://sciprofiles.com/profile/author/YXhwbWZJbmluSXduTb0YUwxNlhhdjkyM0pVRW55QXVQemxOc0o1ZUtPaz0=) (https://sciprofiles.com/profile/author/YXhwbWZJbmluSXduTb0YUwxNlhhdjkyM0pVRW55QXVQemxOc0o1ZUtPaz0=)

*Brain Sci.* 2020, 10(2), 120; <https://doi.org/10.3390/brainsci10020120> (https://doi.org/10.3390/brainsci10020120) - 22 Feb 2020

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**Abstract** This study examined the executive functioning abilities and development profiles of children with autism spectrum disorder (ASD). The participants were 119 children with ASD and 30 typically developing children (age range: 6–12 years) who were recruited from three Gulf states. The findings revealed [...] [Read more](#). (This article belongs to the Special Issue [From Behavior to Pathology: The Underlying Mechanisms in Children with ASD](#) (*/journal/brainsci/special\_issues/machanism\_child\_asd*))

Open Access Editor's Choice Review

(2076-3425/10/2/119/pdf?version=1582358816)

## Management of Neuroinflammatory Responses to AAV-Mediated Gene Therapies for Neurodegenerative Diseases (2076-3425/10/2/119)

by [Barbara A. Perez](https://sciprofiles.com/profile/961803) (https://sciprofiles.com/profile/961803), [Alison Shutterly](https://sciprofiles.com/profile/980500) (https://sciprofiles.com/profile/980500),

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[Barry J. Byrne](https://sciprofiles.com/profile/author/TjQxaGhDZHPLQJGRDZiY1dYz2V5cHMwVU1HVThRcWFiQVFSjN1VvNaVT0=) (https://sciprofiles.com/profile/author/TjQxaGhDZHPLQJGRDZiY1dYz2V5cHMwVU1HVThRcWFiQVFSjN1VvNaVT0=) and

[Manuela Corti](https://sciprofiles.com/profile/968415) (https://sciprofiles.com/profile/968415)

*Brain Sci.* 2020, 10(2), 119; <https://doi.org/10.3390/brainsci10020119> (https://doi.org/10.3390/brainsci10020119) - 22 Feb 2020

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**Abstract** Recently, adeno-associated virus (AAV)-mediated gene therapies have attracted clinical interest for treating neurodegenerative diseases including spinal muscular atrophy (SMA), Canavan disease (CD), Parkinson's disease (PD), and Friedreich's ataxia (FA). The influx of clinical findings led to the first approved gene therapy for neurodegenerative [...] [Read more](#).

(This article belongs to the Special Issue [Gene Therapy for Neurodegenerative Diseases](#) (*/journal/brainsci/special\_issues/Gene\_Therapy\_Neurodegenerative*))

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(2076-3425/10/2/118/pdf?version=1582357798)

## Brain Tumor Analysis Empowered with Deep Learning: A Review, Taxonomy, and Future Challenges (2076-3425/10/2/118)

by [Muhammad Waqas Nadeem](https://sciprofiles.com/profile/1204605) (https://sciprofiles.com/profile/1204605), [Mohammed A. Al Ghamdi](https://sciprofiles.com/profile/543406) (https://sciprofiles.com/profile/543406),

[Muzammil Hussain](https://sciprofiles.com/profile/1084369) (https://sciprofiles.com/profile/1084369), [Muhammad Adnan Khan](https://sciprofiles.com/profile/930957) (https://sciprofiles.com/profile/930957),

[Khalid Masood Khan](https://sciprofiles.com/profile/1353774) (https://sciprofiles.com/profile/1353774), [Sultan H. Almotiri](https://sciprofiles.com/profile/1878455) (https://sciprofiles.com/profile/1878455) and

[Suhail Ashfaq Butt](https://sciprofiles.com/profile/588449) (https://sciprofiles.com/profile/588449)

*Brain Sci.* 2020, 10(2), 118; <https://doi.org/10.3390/brainsci10020118> (https://doi.org/10.3390/brainsci10020118) - 22 Feb 2020

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**Abstract** Deep Learning (DL) algorithms enabled computational models consist of multiple processing layers that represent data with multiple levels of abstraction. In recent years, usage of deep learning is rapidly proliferating in almost every domain, especially in medical image processing, medical image analysis, and [...] [Read more](#). (This article belongs to the Special Issue [Collection on Clinical Neuroscience](#) (*/journal/brainsci/special\_issues/clinic\_neuro\_sci*))

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# Assessing the Role of Cannabis Use on Cortical Surface Structure in Adolescents and Young Adults: Exploring Gender and Aerobic Fitness as Potential Moderators (2076-3425/10/2/117)

by Ryan M. Sullivan (<https://sciprofiles.com/profile/author/TnJ2bTureDZJUVA3dnBIY0k3eGIFZz09>),

Alexander L. Wallace (<https://sciprofiles.com/profile/2040219>),

Natasha E. Wade (<https://sciprofiles.com/profile/author/aGhPaFF6bXRySDJSK2NVUfHJeEpnK1hPQmdpMctMvMo0WmhdSGRsVIFscz0=>),

Ann M. Swartz (<https://sciprofiles.com/profile/647795>) and Krista M. Lisdahl (<https://sciprofiles.com/profile/913221>)

Brain Sci. 2020, 10(2), 117; <https://doi.org/10.3390/brainsci10020117> (<https://doi.org/10.3390/brainsci10020117>) - 22 Feb 2020

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**Abstract** Cannabis use in adolescents and young adults is linked with aberrant brain structure, although findings to date are inconsistent. We examined whether aerobic fitness moderated the effects of cannabis on cortical surface structure and whether gender may play a moderating role. Seventy-four adolescents [...] [Read more.](#) (This article belongs to the Special Issue [Cannabis: Neuropsychiatry and Its Effects on Brain and Behavior](#) ([Journal/brainsci/special\\_issues/Cannabis\\_Neuropsychiatry\\_Brain\\_Behavior](#)))

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## Image Segmentation of Brain MRI Based on LTriDP and Superpixels of Improved SLIC (2076-3425/10/2/116)

by Yu Wang (<https://sciprofiles.com/profile/877724>),

Qi Qi (<https://sciprofiles.com/profile/author/dTVoNkNiYlhrOUJFZGR2UGNWMXVySzQ0dji3SWtKQXJHVGtobkZMUKi2RT0=>) and

Xuanjing Shen (<https://sciprofiles.com/profile/author/dVFXt2FrNW5reWZwK1BRUDhxcFdlc2cvek5uTHkyM0tNeGwrVnh2Vk1BUT0=>)

Brain Sci. 2020, 10(2), 116; <https://doi.org/10.3390/brainsci10020116> (<https://doi.org/10.3390/brainsci10020116>) - 20 Feb 2020

Cited by 7 ([2076-3425/10/2/116#metrics](https://doi.org/10.3390/brainsci10020116#metrics)) | Viewed by 2870

**Abstract** Non-uniform gray distribution and blurred edges often result in bias during the superpixel segmentation of medical images of magnetic resonance imaging (MRI). To this end, we propose a novel superpixel segmentation algorithm by integrating texture features and improved simple linear iterative clustering (SLIC). [...] [Read more.](#) (This article belongs to the Special Issue [Human Brain Dynamics: Latest Advances and Prospects](#) ([Journal/brainsci/special\\_issues/Human\\_Brain\\_Dynamics](#)))

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## Random Forest Classification of Alcohol Use Disorder Using fMRI Functional Connectivity, Neuropsychological Functioning, and Impulsivity Measures (2076-3425/10/2/115)

by Chella Kamarajan (<https://sciprofiles.com/profile/788659>),

Babak A. Ardekani (<https://sciprofiles.com/profile/author/UGMzbXlZnBreFhdS85SHudjdJS0Z1SVBwOG1aMEIWQmpjcnNoZGYvQT0=>),

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Sivan Kinreich (<https://sciprofiles.com/profile/author/YIUwK3dUWdWcHh2S0Y1d2dKSipZakM4S0g2RTRyQ1E1YVlrL3duNytWYz0=>),

Gayathri Pandey (<https://sciprofiles.com/profile/author/ZWQzU1dvRUlOcWJvr2tRbTJ2MwZaU0o5eE9CY0pBczdtVm1sM0FXRUUpGcz0=>),

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Jian Zhang (<https://sciprofiles.com/profile/author/Z0tMaEdkMjFHMGI5ZkK4c3hMeUVoUkVQ1ZEZ1p3ODYzYk5VdzVaUWliaz0=>),

Elaine Bermudez (<https://sciprofiles.com/profile/author/SGRJvndiURiR09KeGJnbzVhYjJ2emdsYS91aThiSjZiWdJmldQcFdNaz0=>),

Arthur T. Stimus (<https://sciprofiles.com/profile/author/bmxCVEZTRXhZbXVTRzJ0bWhSbmJuaVJFMGZIRGsySFRPc1gzdVhuNktLRTO=>) and

Bernice Porjesz (<https://sciprofiles.com/profile/author/YjZkd1BLcVl2MU5WRStzYnBdeHJhTgxHa1pNL0F4N1ZiTDhtZxz6aWNVQT0=>)

Brain Sci. 2020, 10(2), 115; <https://doi.org/10.3390/brainsci10020115> (<https://doi.org/10.3390/brainsci10020115>) - 20 Feb 2020

Cited by 18 ([2076-3425/10/2/115#metrics](https://doi.org/10.3390/brainsci10020115#metrics)) | Viewed by 3413

**Abstract** Individuals with alcohol use disorder (AUD) are known to manifest a variety of neurocognitive impairments that can be attributed to alterations in specific brain networks. The current study aims to identify specific features of brain connectivity, neuropsychological performance, and impulsivity traits that can [...] [Read more.](#) (This article belongs to the Special Issue [Recent Advances in Human Brain Connectivity](#) ([Journal/brainsci/special\\_issues/Brain\\_Connectivity](#)))

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## Brain Processing of Complex Geometric Forms in a Visual Memory Task Increases P2 Amplitude (2076-3425/10/2/114)

by Héctor A. Cepeda-Freyre (<https://sciprofiles.com/profile/901022>), Gregorio Garcia-Aguilar (<https://sciprofiles.com/profile/823735>),

Jose R. Eguibar (<https://sciprofiles.com/profile/900937>) and Carmen Cortes (<https://sciprofiles.com/profile/971078>)

Brain Sci. 2020, 10(2), 114; <https://doi.org/10.3390/brainsci10020114> (<https://doi.org/10.3390/brainsci10020114>) - 20 Feb 2020

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**Abstract** We study the cognitive processing of visual working memory in three different conditions of memory load and configuration change. Altering this features has been shown to alter the brain's processing in memory tasks. Most studies dealing with this issue have used the verbal-phonological [...] [Read more.](#) (This article belongs to the Special Issue [Collection on Cognitive Neuroscience](#) ([Journal/brainsci/special\\_issues/cogni\\_neuro\\_sci](#)))

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### Electrophysiological Differentiation of the Effects of Stress and Accent on Lexical Integration in Highly Fluent Bilinguals (/2076-3425/10/2/113)

by Jennifer Lewendon (https://sciprofiles.com/profile/author/SUHHRnRuWnAyVTdYSuHBK1qYtYDallycEhhVEZ4Wm55KzV5R5X14M2p2RT0=),

Anouschka Foltz (https://sciprofiles.com/profile/927351) and Guillaume Thierry (https://sciprofiles.com/profile/408991)

Brain Sci. 2020, 10(2), 113; https://doi.org/10.3390/brainsci10020113 (https://doi.org/10.3390/brainsci10020113) - 20 Feb 2020

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**Abstract** Individuals who acquire a second language (L2) after infancy often retain features of their native language (L1) accent. Cross-language priming studies have shown negative effects of L1 accent on L2 comprehension, but the role of specific speech features, such as lexical stress, is [...] [Read more](#).

(This article belongs to the Special Issue [Cognitive Neuroscience of Cross-Language Interaction in Bilinguals \(/journal/brainsci/special\\_issues/CONOCLIB\)](#))

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### Hyperarousal Is Associated with Socioemotional Processing in Individuals with Insomnia Symptoms and Good Sleepers (/2076-3425/10/2/112)

by Reuben D. M. Howlett (https://sciprofiles.com/profile/author/UGRNUG9reGVoZFM1Ykk4bTFjR01qYjNaZTh2bjB2NGdVTjNXRFbTbU4vWT0=),

Kari A. Lustig (https://sciprofiles.com/profile/author/TKswL2tsMmM0azcyTVRHR29wYXkxTUs4YWhCWGdYOXpvU0gyZEZVK202WT0=),

Kevin J. MacDonald (https://sciprofiles.com/profile/author/WGx5WktsV3dCV2Y4R0hISFZicENIR3NtMHPPOUC4VEXLcjqYmIU5Gxsdz0=) and

Kimberly A. Cote (https://sciprofiles.com/profile/953223)

Brain Sci. 2020, 10(2), 112; https://doi.org/10.3390/brainsci10020112 (https://doi.org/10.3390/brainsci10020112) - 20 Feb 2020

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**Abstract** Despite complaints of difficulties in waking socioemotional functioning by individuals with insomnia, only a few studies have investigated emotion processing performance in this group. Additionally, the role of sleep in socioemotional processing has not been investigated extensively nor using quantitative measures of sleep. [...] [Read more](#).

(This article belongs to the Special Issue [Insomnia: Beyond Hyperarousal \(/journal/brainsci/special\\_issues/insomnia\\_hyperarousal\)](#))

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### Mindfulness and Psychological Flexibility are Inversely Associated with Caregiver Burden in Parkinson's Disease (/2076-3425/10/2/111)

by Martin Klietz (https://sciprofiles.com/profile/953453),

Simon C. Drexel (https://sciprofiles.com/profile/author/TOZIRINPNy9WL0RZcStoRXN4eXh1MHI4dEITc21JbmfYc3NCKzFVRVVDcTjXbGRpMFIPVkJ1bmdqZnh5UnVwYw==),

Theresa Schnur (https://sciprofiles.com/profile/author/K0szWFNCZHI1MTZLOExqa3N1V1ZDZ25SWkg0ZE5uQXNpT3A3VTMrWXQ5aFnqDHN2Uj0Tnlvc28zejNjaXhUNA==)

Florian Lange (https://sciprofiles.com/profile/897826), Adrian Groh (https://sciprofiles.com/profile/989698),

Lejla Paracka (https://sciprofiles.com/profile/1116536),

Stephan Greten (https://sciprofiles.com/profile/author/Y2Y3bWhtL0oxciBKWkNTN0VRY0Zi1RPUzZZbVVYem84NWs0bjFDOTRZND0=),

Dirk Dressler (https://sciprofiles.com/profile/11857), Günter U. Höglinger (https://sciprofiles.com/profile/1591161) and

Florian Wegner (https://sciprofiles.com/profile/1170469)

Brain Sci. 2020, 10(2), 111; https://doi.org/10.3390/brainsci10020111 (https://doi.org/10.3390/brainsci10020111) - 20 Feb 2020

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**Abstract** Parkinson's disease (PD) is a neurodegenerative movement disorder with progressive impairments in activities of daily living. With disease progression, people with PD (PwP) need more help and care from their spouses or professional caregivers. Identifying factors that help caregivers to cope with their [...] [Read more](#).

(This article belongs to the Special Issue [Collection on Clinical Neuroscience \(/journal/brainsci/special\\_issues/clinic\\_neuro\\_sci\)](#))

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### Traumatic Brain Injury Patients Mortality and Serum Total Antioxidant Capacity (/2076-3425/10/2/110)

by Leonardo Lorente (https://sciprofiles.com/profile/108743),

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Antonia Pérez-Cejas (https://sciprofiles.com/profile/author/YzMyL3dYn1pLQ1JPa2VJZE9CVVpuaHhpakdWeVhITC9aOVZndjZDaE8zdz0=),

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Juan J. Cáceres (https://sciprofiles.com/profile/author/VkZtRtXtYzMyRlp5a2kzQUFvc1PYWWhBMkNRZGN5RWdjbjNOLzkcxcFLbmZQZm1zdJhTEZmb2hVv0hORGxKSQ==)

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Victor García-Marín (https://sciprofiles.com/profile/author/UzAxQnQrdUvH1B1BiEx0RlpgOFIZNjhWmJgUeJMWHoxWVdtSGxuWThqOD0=)

Brain Sci. 2020, 10(2), 110; https://doi.org/10.3390/brainsci10020110 (https://doi.org/10.3390/brainsci10020110) - 18 Feb 2020

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**Abstract** Objective: Oxidation is involved in secondary brain injury after traumatic brain injury (TBI). Increased concentrations of total antioxidant capacity (TAC) in blood at the We used a colorimetric method to measure the oxidative stress. The main objective of this study was to [...] [Read more](#).

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### Chronic Chemogenetic Stimulation of the Nucleus Accumbens Produces Lasting Reductions in Binge Drinking and Ameliorates Alcohol-Related Morphological and Transcriptional Changes (2076-3425/10/2/109)

by Dar'ya Y. Pozhidayeva (https://sciprofiles.com/profile/author/WWFmUm05RTJCaFJLekdVY2NHTIcxSGZDM2habJncDZLUXcwRWhDbGdhUT0=), Sean P. Farris (https://sciprofiles.com/profile/981887), Calla M. Goeke (https://sciprofiles.com/profile/author/MnZaMGw2TCtjcG43eEd0YjNkdVNtaXg1V1VITVE0dGtNTUY3NHVvVENEMD0=), Evan J. Firsick (https://sciprofiles.com/profile/author/RfH2WmtlQVC3ZUw2d2dGbFA1bHJqWdVua2QwcHNKS0QzOHU2djdBV0NnUT0=), Kayla G. Townsley (https://sciprofiles.com/profile/980550), Marina Guizzetti (https://sciprofiles.com/profile/author/aUdya1FJVVE3RHJLQWVBZHhp6R3R6M2VqB0NXOEplZDVUTDhIazZmeXpgOD0=) and Angela R. Ozburn (https://sciprofiles.com/profile/594241)

Brain Sci. 2020, 10(2), 109; https://doi.org/10.3390/brainsci10020109 (https://doi.org/10.3390/brainsci10020109) - 18 Feb 2020  
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**Abstract** Binge drinking is a dangerous pattern of behavior. We tested whether chronically manipulating nucleus accumbens (NAc) activity (via clozapine-N-oxide (CNO) and Designer Receptors Exclusively Activated by Designer Drugs (DREADD)) could produce lasting effects on ethanol binge-like drinking in mice selectively bred to drink [...] **Read more.**

(This article belongs to the Special Issue **Molecular and Cellular Mechanisms Mediating the Behavioral Effects of Alcohol** ( /journal/brainsci/special\_issues/Mechanisms\_Alcohol ))

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Open Access Article (2076-3425/10/2/108/pdf?version=1583068333)

### Early Screening of the Autism Spectrum Disorders: Validity Properties and Cross-Cultural Generalizability of the First Year Inventory in Italy (2076-3425/10/2/108)

by Annalisa Levante (https://sciprofiles.com/profile/948480), Serena Petrocchi (https://sciprofiles.com/profile/562770), Angelo Massagli (https://sciprofiles.com/profile/author/UCIMVFRDMVFKN3QrbVFta01GzjFhbXpNRGhTS3pHYjhwScIUVU15M3ZKST0=), Maria Rosaria Filograna (https://sciprofiles.com/profile/author/UHUYU2NsVUITRihCS2VPYTRudXRyZz09), Serafino De Giorgi (https://sciprofiles.com/profile/author/a25lcmxjeXM5MndRTUUhSZE5hdKJ2NmW2VDFQ0Vid0FIUUZqaTV4SmRpYz0=) and Flavia Lecciso (https://sciprofiles.com/profile/2061997)

Brain Sci. 2020, 10(2), 108; https://doi.org/10.3390/brainsci10020108 (https://doi.org/10.3390/brainsci10020108) - 18 Feb 2020  
Cited by 4 (2076-3425/10/2/108#metrics) | Viewed by 2365

**Abstract** This study examined the cross-cultural generalisability of the First Year Inventory (FYI) on an Italian sample, testing its construct validity, consistency, and structural validity. Six hundred ninety-eight parents of children aged 11–13 months completed the questionnaire. Similarities between analyses of Italian and American/Israeli [...] **Read more.**

(This article belongs to the Special Issue **Advances in Autism Research** ( /journal/brainsci/special\_issues/Advance\_Autism\_Research ))

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Open Access Editor's Choice Opinion (2076-3425/10/2/107/pdf?version=1581939094)

### CDKL5 Deficiency Disorder—A Complex Epileptic Encephalopathy (2076-3425/10/2/107)

by Martyna Jakimiec (https://sciprofiles.com/profile/987536), Justyna Paprocka (https://sciprofiles.com/profile/415951) and Robert Śmigiel (https://sciprofiles.com/profile/1474962)

Brain Sci. 2020, 10(2), 107; https://doi.org/10.3390/brainsci10020107 (https://doi.org/10.3390/brainsci10020107) - 17 Feb 2020  
Cited by 33 (2076-3425/10/2/107#metrics) | Viewed by 5515

**Abstract** CDKL5 deficiency disorder (CDD) is a complex of clinical symptoms resulting from the presence of non-functional CDKL5 protein, i.e., serine-threonine kinase (previously referred to as STK9), or its complete absence. The clinical picture is characterized by epileptic seizures (that start within the first [...]) **Read more.**

Open Access Article (2076-3425/10/2/106/pdf?version=1583047995)

### The Impact of Removal of Ovarian Hormones on Cholinergic Muscarinic Receptors: Examining Prepulse Inhibition and Receptor Binding (2076-3425/10/2/106)

by Sarah S. Ch'ng (https://sciprofiles.com/profile/author/aWpHZdZmZE1GcG9XOUkwSU1leUJOWW9kZnITWnJ6K20wRjBPYWxvTzdRbz0=), Adam J. Walker (https://sciprofiles.com/profile/979450), Madeleine McCarthy (https://sciprofiles.com/profile/author/Q2FjRHdOaVJXOWV1eGxIzHrREpMQkIda0hEMHZIRWRwTFZiTTVHdDQxQmhtdE5pRFc2SWhabGxacVZzNUcw=), Thien-Kim Le (https://sciprofiles.com/profile/author/K1ILVTIQTXBudm5MQkFTZG95UVZIRkhsQ25SdFYxa2pxZnaA3ZjRQNTFwST0=), Natalie Thomas (https://sciprofiles.com/profile/485847), Andrew Gibbons (https://sciprofiles.com/profile/1142741), Madhara Udawela (https://sciprofiles.com/profile/author/TFFxRnBDdm1kUk4zSXBjMk9KujBJZwt3WU1EZfVkrVpaUmZGam5SZ2xVZ2t6L3ZYchOV21VZk9MVVZ1aDIOVA=)

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Brain Sci. 2020, 10(2), 106; https://doi.org/10.3390/brainsci10020106 (https://doi.org/10.3390/brainsci10020106) - 17 Feb 2020  
Cited by 5 (2076-3425/10/2/106#metrics) | Viewed by 2008

**Abstract** Ovarian hormones, such as estrogens and progesterone, are known to exert beneficial effects on cognition and some psychiatric disorders. The basis of these effects is not fully understood, but may involve altered cholinergic neurotransmission. This study aimed to investigate how a lack of [...] **Read more.**

(This article belongs to the Special Issue **Hormones and Cognition** ( /journal/brainsci/special\_issues/Sex\_Hormone ))

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Open Access Editor's Choice Article (2076-3425/10/2/105/pdf?version=1581902451)  
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### Focus on Clozapine Withdrawal- and Misuse-Related Cases as Reported to the European Medicines Agency (EMA) Pharmacovigilance Database (2076-3425/10/2/105)

by Stefania Chiappini (https://sciprofiles.com/profile/412854), Fabrizio Schifano (https://sciprofiles.com/profile/583443), John Martin Corkery (https://sciprofiles.com/profile/619929) and Amira Guirguis (https://sciprofiles.com/profile/358666) **Accept (accept\_cookies)**

**Abstract** Background: Clozapine is of high clinical relevance for the management of both treatment-resistant schizophrenia and psychotic disturbances with concurrent drug misuse. Although the molecule presents with a range of well-known side-effects, its discontinuation/withdrawal syndrome has been only anecdotally described. Aims: the 2005–2018 European [...] [Read more](#).

(This article belongs to the Special Issue [Pharmacology and Toxicology of New Psychoactive Substances: Focus on Novel Synthetic Opioids](#) ([/journal/brainsci/special\\_issues/Novel\\_Synthetic\\_Opioids](#)))

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**Emotional Response Inhibition: A Shared Neurocognitive Deficit in Eating Disorder Symptoms and Nonsuicidal Self-Injury** ([/2076-3425/10/2/104](#))

by [Kenneth J. D. Allen](#) (<https://sciprofiles.com/profile/847333>), [M. McLean Sammon](#) (<https://sciprofiles.com/profile/927514>),

[Kathryn R. Fox](#) (<https://sciprofiles.com/profile/969416>) and

[Jeremy G. Stewart](#) (<https://sciprofiles.com/profile/author/T0RmTkJSUGRmK3c1SWYvcER3VURRZGFUMetiMVNIR2Y5TE1qekRwR1dQOD0=>)

*Brain Sci.* 2020, 10(2), 104; <https://doi.org/10.3390/brainsci10020104> (<https://doi.org/10.3390/brainsci10020104>) - 15 Feb 2020

Cited by 4 ([/2076-3425/10/2/104#metrics](#)) | Viewed by 4326



**Abstract** Eating disorder (ED) symptoms often co-occur with non-suicidal self-injury (NSSI). This comorbidity is consistent with evidence that trait negative urgency increases risk for both of these phenomena. We previously found that impaired late-stage negative emotional response inhibition (i.e., negative emotional action termination or [...]) [Read more](#).

(This article belongs to the Special Issue [Underlying Neurobiological and Neurocognitive Mechanisms of Impulsivity in Risk-Taking Behaviors](#) ([/journal/brainsci/special\\_issues/impulsivity\\_in\\_risk\\_taking\\_behaviors](#)))

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**Sex Stratified Treatment of Neurological Disorders: Challenges and Perspectives** ([/2076-3425/10/2/103](#))



by [Ivan Nalvarte](#) (<https://sciprofiles.com/profile/213383>)

*Brain Sci.* 2020, 10(2), 103; <https://doi.org/10.3390/brainsci10020103> (<https://doi.org/10.3390/brainsci10020103>) - 14 Feb 2020

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**Abstract** Despite the obvious sex differences in many of the most common neuropsychiatric and neurodegenerative disorders, males and females are still often treated the same from a clinical perspective. Why is that? The simple answer is that there is still too little known about [...] [Read more](#).

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**Exclusion Criteria Used in Early Behavioral Intervention Studies for Young Children with Autism Spectrum Disorder** ([/2076-3425/10/2/99](#))

by [Sahr Yazdani](#) (<https://sciprofiles.com/profile/982110>), [Angela Capuano](#) (<https://sciprofiles.com/profile/956068>),

[Mohammad Ghaziuddin](#) (<https://sciprofiles.com/profile/author/VGwvUEH4UW9WV3AwVkgzamVTUkEzU3ISSIFaR1QrWEk1b2J5NU11bEhROD0=>) and

[Costanza Colombi](#) (<https://sciprofiles.com/profile/980512>)



*Brain Sci.* 2020, 10(2), 99; <https://doi.org/10.3390/brainsci10020099> (<https://doi.org/10.3390/brainsci10020099>) - 13 Feb 2020

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**Abstract** This literature review evaluated early behavioral intervention studies of Autism Spectrum disorder (ASD) based on their participant exclusion criteria. The studies included were found through searching PsycINFO and PubMed databases, and discussed behavioral interventions for children up to 5 years of age with [...] [Read more](#).

(This article belongs to the Special Issue [Advances in Autism Research](#) ([/journal/brainsci/special\\_issues/Advance\\_Autism\\_Research](#)))

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**A Systematic Review of Human Neuroimaging Evidence of Memory-Related Functional Alterations Associated with Cannabis Use Complemented with Preclinical and Human Evidence of Memory Performance Alterations** ([/2076-3425/10/2/102](#))

by [Grace Blest-Hopley](#) (<https://sciprofiles.com/profile/946800>),

[Vincent Giampietro](#) (<https://sciprofiles.com/profile/author/ZWdzQlpOQkNUYUVvTtIaN3VNNnJRaUxrUll2eW0zMTJDRVZZQXhlcE5zaz0=>) and

[Sagnik Bhattacharyya](#) (<https://sciprofiles.com/profile/651453>)

*Brain Sci.* 2020, 10(2), 102; <https://doi.org/10.3390/brainsci10020102> (<https://doi.org/10.3390/brainsci10020102>) - 13 Feb 2020

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**Abstract** Cannabis has been associated with deficits in memory performance. However, the neural correlates that may underpin impairments remain unclear. We carried out a systematic review of functional magnetic resonance imaging (fMRI) studies investigating brain functional alterations in cannabis users (CU) compared to nonusing [...] [Read more](#).

(This article belongs to the Special Issue [Cannabis: Neuropsychiatry and Its Effects on Brain and Behavior](#) ([/journal/brainsci/special\\_issues/Cannabis\\_Neuropsychiatry\\_Brain\\_Behavior](#)))

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**Saccular Aneurysm Models Featuring Growth and Rupture: A Systematic Review** ([/2076-3425/10/2/101](#))

by [Serge Marbacher](#) (<https://sciprofiles.com/profile/450074>), [Stefan Wanderer](#) (<https://sciprofiles.com/profile/955332>),

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*Brain Sci.* 2020, 10(2), 101; <https://doi.org/10.3390/brainsci10020101> (<https://doi.org/10.3390/brainsci10020101>) - 13 Feb 2020

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**Abstract** Background. Most available large animal extracranial aneurysm models feature healthy non-degenerated aneurysm pouches with stable long-term follow-ups and extensive healing reactions after endovascular treatment. This review focuses on a small subgroup of extracranial aneurysm models that demonstrated growth and potential rupture during follow-up. [...] [Read more](#).

(This article belongs to the Special Issue [Experimental and Clinical Treatment of Subarachnoid Hemorrhage after Rupture of Saccular Intracranial Aneurysms](#) ([/journal/brainsci/special\\_issues/Subarachnoid\\_Hemorrhage](#)))

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Shu Morioka (https://sciprofiles.com/profile/1204616)  
Brain Sci. 2020, 10(2), 100; https://doi.org/10.3390/brainsci10020100 (https://doi.org/10.3390/brainsci10020100) - 13 Feb 2020  
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**Abstract** Although the media can have both negative and positive effects on children's cognitive and motor functions, its influence on their perceptual bias and manual dexterity is unclear. Thus, we investigated the association between media viewing time, media preference level, perceptual bias, and manual [...]. [Read more.](#)

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**Understanding Exercise Adherence: The Predictability of Past Experience and Motivational Determinants (2076-3425/10/2/98)**

by Filipe Rodrigues (https://sciprofiles.com/profile/867918), Diogo S. Teixeira (https://sciprofiles.com/profile/1118181),  
Henrique P. Neiva (https://sciprofiles.com/profile/594625), Luis Cid (https://sciprofiles.com/profile/291000) and  
Diogo Monteiro (https://sciprofiles.com/profile/202977)

Brain Sci. 2020, 10(2), 98; https://doi.org/10.3390/brainsci10020098 (https://doi.org/10.3390/brainsci10020098) - 12 Feb 2020

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**Abstract** Background: An unresolved debate lingers over the effect of past behavior on motivational patterns and future behavior stability in the exercise context. Theorists argue that past behavior has a residual effect on future behavior; however, empirical studies have shown that past behavior displays [...]. [Read more.](#)

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**Factors Moderating the Association between Cannabis Use and Psychosis Risk: A Systematic Review (2076-3425/10/2/97)**

by Sanne J. van der Steur (https://sciprofiles.com/profile/author/QUJWV1o3OHBOV3l2c0xQaFdYK1BfUVInWmtleGdiZFiMbEZCMG9xZWxXWT0=),  
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Matthijs G. Bossong (https://sciprofiles.com/profile/948065)

Brain Sci. 2020, 10(2), 97; https://doi.org/10.3390/brainsci10020097 (https://doi.org/10.3390/brainsci10020097) - 12 Feb 2020

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**Abstract** Increasing evidence indicates a relationship between cannabis use and psychosis risk. Specific factors, such as determinants of cannabis use or the genetic profile of cannabis users, appear to moderate this association. The present systematic review presents a detailed and up-to-date literature overview on [...]. [Read more.](#)  
(This article belongs to the Special Issue **Cannabis: Neuropsychiatry and Its Effects on Brain and Behavior (Journal/brainsci/special\_issues/Cannabis\_Neuropsychiatry\_Brain\_Behavior)**)

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**Cerebellar Transcranial Direct Current Stimulation in People with Parkinson's Disease: A Pilot Study (2076-3425/10/2/96)**

by Craig D. Workman (https://sciprofiles.com/profile/942049), Alexandra C. Fietsam (https://sciprofiles.com/profile/1013268),  
Ergun Y. Uc (https://sciprofiles.com/profile/author/NFBjclVYRHhITHQ2QkxzdMFWemtWa2lreGxzdTdaSk1kTmZVamVyS3JqUT0=) and  
Thorsten Rudroff (https://sciprofiles.com/profile/913994)

Brain Sci. 2020, 10(2), 96; https://doi.org/10.3390/brainsci10020096 (https://doi.org/10.3390/brainsci10020096) - 11 Feb 2020

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**Abstract** People with Parkinson's disease (PwPD) often experience gait and balance problems that substantially impact their quality of life. Pharmacological, surgical, and rehabilitative treatments have limited effectiveness and many PwPD continue to experience gait and balance impairment. Transcranial direct current stimulation (tDCS) may represent [...]. [Read more.](#)  
(This article belongs to the Special Issue **Brain Stimulation and Parkinson's Disease (Journal/brainsci/special\_issues/stimulation\_parkinson)**)

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Open Access Feature Paper Article

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**Dorsal Root Ganglion Stimulation Modulates Cortical Gamma Activity in the Cognitive Dimension of Chronic Pain (2076-3425/10/2/95)**

by Tariq Parker (https://sciprofiles.com/profile/950879), Yongzhi Huang (https://sciprofiles.com/profile/729265),  
Ashley L.B. Raghu (https://sciprofiles.com/profile/950879),  
James J. FitzGerald (https://sciprofiles.com/profile/author/dW41VT1U1VqBUIqBWF3Qit5N1YvQIVCQUJRK1RnMitNU3ZleGJ5QjJNND0=),  
Alexander L. Green (https://sciprofiles.com/profile/341590) and Tipu Z. Aziz (https://sciprofiles.com/profile/194365)

Brain Sci. 2020, 10(2), 95; https://doi.org/10.3390/brainsci10020095 (https://doi.org/10.3390/brainsci10020095) - 11 Feb 2020

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**Abstract** A cognitive task, the n-back task, was used to interrogate the cognitive dimension of pain in patients with implanted dorsal root ganglion stimulators (DRGS). Magnetoencephalography (MEG) signals from thirteen patients with implanted DRGS were recorded at rest and while performing the n-back task [...]. [Read more.](#)  
(This article belongs to the Special Issue **Neuromodulation for Intractable Pain (Journal/brainsci/special\_issues/neuromodulation\_pain)**)

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**Deep Cerebellar Transcranial Direct Current Stimulation of the Dentate Nucleus to Facilitate Standing Balance in Chronic Stroke Survivors—A Pilot Study (2076-3425/10/2/94)**

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by [Zeynab Rezaee](https://sciprofiles.com/profile/author/eHBKaklwY3JIU2JKakFwMhGZWlRqkRBNEFXSDRrdGV50Up6S01nQjKzUT0=) (https://sciprofiles.com/profile/author/eHBKaklwY3JIU2JKakFwMhGZWlRqkRBNEFXSDRrdGV50Up6S01nQjKzUT0=), [Surbhi Kaura](https://sciprofiles.com/profile/author/Yk5QZE5EZO9ZT3NVSC9pcDFQkZVhUUNZY1E5MU9ERHhaeFIPcXBYUWm2Wt0=) (https://sciprofiles.com/profile/author/Yk5QZE5EZO9ZT3NVSC9pcDFQkZVhUUNZY1E5MU9ERHhaeFIPcXBYUWm2Wt0=), [Dhaval Solanki](https://sciprofiles.com/profile/author/cS91S2hkRXpOOCs3TlItbWk0THVucFJjVXVxNk5QY0VscFpMYW1DWWZQZz0=) (https://sciprofiles.com/profile/author/cS91S2hkRXpOOCs3TlItbWk0THVucFJjVXVxNk5QY0VscFpMYW1DWWZQZz0=), [Adyasha Dash](https://sciprofiles.com/profile/author/MDMwVS9yU0pLdE93eERYWVVsVmtmcWJDRWVRQXpVbDQyOWJ6Q00ydG5aST0=) (https://sciprofiles.com/profile/author/MDMwVS9yU0pLdE93eERYWVVsVmtmcWJDRWVRQXpVbDQyOWJ6Q00ydG5aST0=), [M V Padma Srivastava](https://sciprofiles.com/profile/author/MJBK3U0Ky9PRWdaRWZVJrRcTZLQ2FTYm1rNS9DVW1OUctzN2gzN20zST0=) (https://sciprofiles.com/profile/author/MJBK3U0Ky9PRWdaRWZVJrRcTZLQ2FTYm1rNS9DVW1OUctzN2gzN20zST0=), [Uttama Lahiri](https://sciprofiles.com/profile/author/Ni9CTkw3djJnSWImRGRpTmNrWER4RE9YzmxOUImbzDZYMOZXBIVHbEV5bz0=) (https://sciprofiles.com/profile/author/Ni9CTkw3djJnSWImRGRpTmNrWER4RE9YzmxOUImbzDZYMOZXBIVHbEV5bz0=) and [Anirban Dutta](https://sciprofiles.com/profile/688490) (https://sciprofiles.com/profile/688490)  
*Brain Sci.* 2020, 10(2), 94; <https://doi.org/10.3390/brainsci10020094> (https://doi.org/10.3390/brainsci10020094) - 10 Feb 2020  
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**Abstract** Objective: Cerebrovascular accidents are the second leading cause of death and the third leading cause of disability worldwide. We hypothesized that cerebellar transcranial direct current stimulation (ctDCS) of the dentate nuclei and the lower-limb representations in the cerebellum can improve functional reach during [...]. [Read more.](#) (This article belongs to the Special Issue [Collection on Neural Engineering](#) ([/journal/brainsci/special\\_issues/neural\\_engineering](#)))

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**Therapeutic Potential of Direct Clearance of the Amyloid- $\beta$  in Alzheimer's Disease** (2076-3425/10/2/93)

by [Dong Eun Kim](https://sciprofiles.com/profile/2222732) (https://sciprofiles.com/profile/2222732) and [Ronny Priefer](https://sciprofiles.com/profile/963010) (https://sciprofiles.com/profile/963010)  
*Brain Sci.* 2020, 10(2), 93; <https://doi.org/10.3390/brainsci10020093> (https://doi.org/10.3390/brainsci10020093) - 10 Feb 2020  
Cited by 9 (2076-3425/10/2/93#metrics) | Viewed by 2164

**Abstract** Alzheimer's disease (AD) is characterized by deposition and accumulation of amyloid- $\beta$  (A $\beta$ ) and its corresponding plaques within the brain. Although much debate exists whether these plaques are the cause or the effect of AD, the accumulation of A $\beta$  is linked with the imbalance [...]. [Read more.](#) (This article belongs to the Section [Molecular and Cellular Neuroscience](#) ([/journal/brainsci/sections/Molecular\\_Cellular\\_Neuroscience](#)))

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**The Maximum Eigenvalue of the Brain Functional Network Adjacency Matrix: Meaning and Application in Mental Fatigue Evaluation** (2076-3425/10/2/92)

by [Gang Li](https://sciprofiles.com/profile/954908) (https://sciprofiles.com/profile/954908), [Yonghua Jiang](https://sciprofiles.com/profile/808660) (https://sciprofiles.com/profile/808660), [Weidong Jiao](https://sciprofiles.com/profile/808554) (https://sciprofiles.com/profile/808554), [Wanxiu Xu](https://sciprofiles.com/profile/310171) (https://sciprofiles.com/profile/310171), [Shan Huang](https://sciprofiles.com/profile/author/TXBIWk8wRHpUUKV2UzNEbjF2bE5RMW5kT1V5Z08rK1luUFdxeWZPNHbhz0=) (https://sciprofiles.com/profile/author/TXBIWk8wRHpUUKV2UzNEbjF2bE5RMW5kT1V5Z08rK1luUFdxeWZPNHbhz0=), [Zhao Gao](https://sciprofiles.com/profile/author/KzJWYTBVMIppSNmVg5KSW1lzlzsd09) (https://sciprofiles.com/profile/author/KzJWYTBVMIppSNmVg5KSW1lzlzsd09), [Jianhua Zhang](https://sciprofiles.com/profile/1019022) (https://sciprofiles.com/profile/1019022) and [Chengwu Wang](https://sciprofiles.com/profile/421001) (https://sciprofiles.com/profile/421001)  
*Brain Sci.* 2020, 10(2), 92; <https://doi.org/10.3390/brainsci10020092> (https://doi.org/10.3390/brainsci10020092) - 09 Feb 2020  
Cited by 8 (2076-3425/10/2/92#metrics) | Viewed by 2035

**Abstract** The maximum eigenvalue of the adjacency matrix (AM) has been supposed to contain rich information about the corresponding network. An experimental study focused on revealing the meaning and application of the maximum eigenvalue is missing. To this end, AM was constructed using mutual [...]. [Read more.](#) (This article belongs to the Special Issue [Advances in EEG/MEG Source Imaging](#) ([/journal/brainsci/special\\_issues/EEG\\_MEG](#)))

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**Abstract** Glioblastoma is a solid, infiltrating, and the most frequent highly malignant primary brain tumor. Our aim was to find the correlation between sex, age, preoperative Karnofsky performance status (KPS), presenting with seizures, and extent of resection (EOR) with overall survival (OS), progression-free survival [...][Read more](#). (This article belongs to the Special Issue [Collection on Clinical Neuroscience \(./journal/brainsci/special\\_issues/clinic\\_neuro\\_sci\)](#))

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**Cortical Oscillations during Gait: Wouldn't Walking Be So Automatic? (2076-3425/10/2/90)**

by Arnaud Delval (https://sciprofiles.com/profile/895294), Madli Bayot (https://sciprofiles.com/profile/940653), Luc Defebvre (https://sciprofiles.com/profile/author/dmthMDQwMjhNQ2k0cnBONXA2MkMjUjMnNQZ05VTHJQZw0tFRnK29NSVRIYz0=) and Kathy Dujardin (https://sciprofiles.com/profile/938726)

Brain Sci. 2020, 10(2), 90; https://doi.org/10.3390/brainsci10020090 (https://doi.org/10.3390/brainsci10020090) - 09 Feb 2020  
Cited by 10 (2076-3425/10/2/90#metrics) | Viewed by 3510

**Abstract** Gait is often considered as an automatic movement but cortical control seems necessary to adapt gait pattern with environmental constraints. In order to study cortical activity during real locomotion, electroencephalography (EEG) appears to be particularly appropriate. It is now possible to record changes [...][Read more](#). (This article belongs to the Special Issue [Rhythmic Motor Pattern Generation \(./journal/brainsci/special\\_issues/Rhythmic\\_Motor\\_Pattern\\_Generation\)](#))

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**Application of Chaos Theory in the Assessment of Emotional Vulnerability and Emotion Dysregulation in Adults (2076-3425/10/2/89)**

by Cristina Ciuluvica (Neagu) (https://sciprofiles.com/profile/917923), Ioan Valeriu Grossu (https://sciprofiles.com/profile/1200868) and Paolo Amerio (https://sciprofiles.com/profile/918037)

Brain Sci. 2020, 10(2), 89; https://doi.org/10.3390/brainsci10020089 (https://doi.org/10.3390/brainsci10020089) - 09 Feb 2020  
Cited by 1 (2076-3425/10/2/89#metrics) | Viewed by 1945

**Abstract** In this work, we propose an interdisciplinary chaos analysis of emotion dysregulation (ED) and emotional vulnerability in adults. One of the main goals was the assessment of incongruences that occur in the evaluation of one's own emotional dysregulation mechanisms in the presence of [...][Read more](#).

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**Exercise Training Results in Lower Amyloid Plaque Load and Greater Cognitive Function in an Intensity Dependent Manner in the Tg2576 Mouse Model of Alzheimer's Disease (2076-3425/10/2/88)**

by Riya Thomas (https://sciprofiles.com/profile/958786), Scott D. Zimmerman (https://sciprofiles.com/profile/2417395), Kayla M. Yuede (https://sciprofiles.com/profile/976841), John R. Cirrito (https://sciprofiles.com/profile/author/NkZ4UVRmZ1hrYU0yQzBxU0RiOVInAlN6RHE2Zit3VmF4QlpNSmFEQ3R0U0T0=), Leon M. Tai (https://sciprofiles.com/profile/author/SE1vV3ZFznJYQnNBS2hzMzQxamRqdZ09), Benjamin F. Timson (https://sciprofiles.com/profile/941980) and Carla M. Yuede (https://sciprofiles.com/profile/939249)

Brain Sci. 2020, 10(2), 88; https://doi.org/10.3390/brainsci10020088 (https://doi.org/10.3390/brainsci10020088) - 08 Feb 2020  
Cited by 6 (2076-3425/10/2/88#metrics) | Viewed by 2609

**Abstract** Three months of exercise training (ET) decreases soluble Aβ<sub>40</sub> and Aβ<sub>42</sub> levels in an intensity dependent manner early in life in Tg2576 mice (Moore et al., 2016). Here, we examined the effects of 12 months of low- and high- intensity exercise [...][Read more](#). (This article belongs to the Special Issue [Neuropathology of Alzheimer's Disease \(./journal/brainsci/special\\_issues/Neuropathology\\_Alzheimer\)](#))

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**Synergistic Effects of Scalp Acupuncture and Repetitive Transcranial Magnetic Stimulation on Cerebral Infarction: A Randomized Controlled Pilot Trial (2076-3425/10/2/87)**

by Jae-Hong Kim (https://sciprofiles.com/profile/1192842), Jae-Young Han (https://sciprofiles.com/profile/948901), Min-Keun Song (https://sciprofiles.com/profile/author/REU3Z1prTGM5cHpyU0tDMHNGZjY2Y0Yra1lvck5SOFNsRnNzeHRmK1g2bz0=), Gwang-Chon Park (https://sciprofiles.com/profile/2021054) and Jeong-Soon Lee (https://sciprofiles.com/profile/2021119)

Brain Sci. 2020, 10(2), 87; https://doi.org/10.3390/brainsci10020087 (https://doi.org/10.3390/brainsci10020087) - 07 Feb 2020  
Cited by 4 (2076-3425/10/2/87#metrics) | Viewed by 2326

**Abstract** This study investigated the synergistic effects of scalp acupuncture (SA) and repetitive transcranial magnetic stimulation (rTMS), known to be effective for cerebral

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**Dual Networks for High-Precision and High-Speed Registration of Brain Electron Microscopy Images** ([/2076-3425/10/2/86](#))

by [Chang Shu](#) (<https://sciprofiles.com/profile/876203>),

[Tong Xin](#) (<https://sciprofiles.com/profile/author/ZVRwWXpxbUI3d3ZKNzJubloenNkTEJ6aXJYmNrocM5LRTJxdk5pNmEwRT0=>),

[Fangxu Zhou](#) (<https://sciprofiles.com/profile/author/Qk13bGgwTmxFVnZxOGRzS01U2VDM2FnWNTNkS29wZUNoS0JGZGJhV2xVWT0=>),

[Xi Chen](#) (<https://sciprofiles.com/profile/952385>) and [Hua Han](#) (<https://sciprofiles.com/profile/940724>)

*Brain Sci.* **2020**, *10*(2), 86; <https://doi.org/10.3390/brainsci10020086> (<https://doi.org/10.3390/brainsci10020086>) - 07 Feb 2020

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**Abstract** It remains a mystery as to how neurons are connected and thereby enable use to think, and volume reconstruction from series of microscopy sections of brains is a vital technique in determining this connectivity. Image registration is a key component; the aim of [...]. [Read more.](#)

(This article belongs to the Special Issue [Recent Advances in Human Brain Connectivity \(/journal/brainsci/special\\_issues/Brain\\_Connectivity\)](#))

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**Multimodal Affective State Assessment Using fNIRS + EEG and Spontaneous Facial Expression** ([/2076-3425/10/2/85](#))

by [Yanjia Sun](#) (<https://sciprofiles.com/profile/801425>), [Hasan Ayaz](#) (<https://sciprofiles.com/profile/845517>) and

[Ali N. Akansu](#) (<https://sciprofiles.com/profile/author/OXYwbEx6VWN5Y1VcDU5MWhxeFRqQT09>)

*Brain Sci.* **2020**, *10*(2), 85; <https://doi.org/10.3390/brainsci10020085> (<https://doi.org/10.3390/brainsci10020085>) - 06 Feb 2020

Cited by 16 ([/2076-3425/10/2/85#metrics](#)) | Viewed by 3962

**Abstract** Human facial expressions are regarded as a vital indicator of one's emotion and intention, and even reveal the state of health and wellbeing. Emotional states have been associated with information processing within and between subcortical and cortical areas of the brain, including the [...]. [Read more.](#)

(This article belongs to the Special Issue [Brain Plasticity, Cognitive Training and Mental States Assessment \(/journal/brainsci/special\\_issues/Brain\\_Cognitive\\_Mental\)](#))

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**A Deep Siamese Convolution Neural Network for Multi-Class Classification of Alzheimer Disease** ([/2076-3425/10/2/84](#))

by [Atif Mehmood](#) (<https://sciprofiles.com/profile/911069>), [Muazzam Maqsood](#) (<https://sciprofiles.com/profile/635181>),

[Muzaffar Bashir](#) (<https://sciprofiles.com/profile/1487732>) and [Yang Shuyuan](#) (<https://sciprofiles.com/profile/946519>)

*Brain Sci.* **2020**, *10*(2), 84; <https://doi.org/10.3390/brainsci10020084> (<https://doi.org/10.3390/brainsci10020084>) - 05 Feb 2020

Cited by 72 ([/2076-3425/10/2/84#metrics](#)) | Viewed by 7463

**Abstract** Alzheimer's disease (AD) may cause damage to the memory cells permanently, which results in the form of dementia. The diagnosis of Alzheimer's disease at an early stage is a problematic task for researchers. For this, machine learning and deep convolutional neural network (CNN) [...]. [Read more.](#)

(This article belongs to the Special Issue [Dementia and Cognitive Ageing \(/journal/brainsci/special\\_issues/dementia\\_cognitive\\_ageing\)](#))

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**Combining HF rTMS over the Left DLPFC with Concurrent Cognitive Activity for the Offline Modulation of Working Memory in Healthy Volunteers: A Proof-of-Concept Study** ([/2076-3425/10/2/83](#))

by [Ilya Bakulin](#) (<https://sciprofiles.com/profile/690868>), [Alfia Zabirova](#) (<https://sciprofiles.com/profile/959051>),

[Dmitry Lagoda](#) (<https://sciprofiles.com/profile/710899>), [Alexandra Poydasheva](#) (<https://sciprofiles.com/profile/690900>),

[Anastasija Cherkasova](#) (<https://sciprofiles.com/profile/author/SXNXY3dqMTI3RlQzTVovcGFdWkUydmc5OGtQVjhaVjN0TWJ0Vm9yYjZmzc0=>),

[Nikolay Pavlov](#) (<https://sciprofiles.com/profile/author/VjNFUuUxWFRqQUg0Z0g3bmo5SldGVGdMShdXazk1Z1J0aWhBUXpnLzYxRT0=>),

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[Elena Kremneva](#) (<https://sciprofiles.com/profile/author/RENqS2hqQXJPRXhmaTJVSnJvU1haM1Z2UEZHZEYxOYXE4K3A5WWWJMYU9hUT0=>),

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[Elena Gnedovskaya](#) (<https://sciprofiles.com/profile/825109>), [Natalia Suponeva](#) (<https://sciprofiles.com/profile/973363>) and

[Michael Piradov](#) (<https://sciprofiles.com/profile/author/ZHNhdHhJWEMxZTA3d2NnZTRabEhBaTJkQStndmVjQStlSWI3UETqV2xXZz0=>)

*Brain Sci.* **2020**, *10*(2), 83; <https://doi.org/10.3390/brainsci10020083> (<https://doi.org/10.3390/brainsci10020083>) - 04 Feb 2020

Cited by 5 ([/2076-3425/10/2/83#metrics](#)) | Viewed by 3713

**Abstract** It has been proposed that the effectiveness of non-invasive brain stimulation (NIBS) as a cognitive enhancement technique may be enhanced by combining the stimulation with concurrent cognitive activity. However, the benefits of such a combination in comparison to protocols without ongoing cognitive activity [...]. [Read more.](#)

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### No Immediate Effects of Transcranial Direct Current Stimulation at Various Intensities on Cerebral Blood Flow in People with Multiple Sclerosis (/2076-3425/10/2/82)

by Craig D. Workman (https://sciprofiles.com/profile/942049), Laura L. Boles Ponto (https://sciprofiles.com/profile/1038018), John Kamholz (https://sciprofiles.com/profile/author/Z2VmSGdkOHV4YVEzejZPVldLK0tZd3p2Vmp5QUN2cUwWFJVSzU1a2J6RT0=) and Thorsten Rudroff (https://sciprofiles.com/profile/913994)

Brain Sci. 2020, 10(2), 82; https://doi.org/10.3390/brainsci10020082 (https://doi.org/10.3390/brainsci10020082) - 04 Feb 2020

Cited by 4 (/2076-3425/10/2/82#metrics) | Viewed by 2036

**Abstract** Animal and transcranial magnetic stimulation motors have evoked potential studies suggesting that the currently used transcranial direct current stimulation (tDCS) intensities produce measurable physiological changes. However, the validity, mechanisms, and general efficacy of this stimulation modality are currently being scrutinized. The purpose of [...] [Read more.](#)

(This article belongs to the Special Issue [Advances in Multiple Sclerosis Research—Series I](#) (/journal/brainsci/special\_issues/Advance\_MS\_Research))

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(/2076-3425/10/2/81/pdf?version=1580903865)

### Effect of High Intensity Interval Training Compared to Continuous Training on Cognitive Performance in Young Healthy Adults: A Pilot Study (/2076-3425/10/2/81)

by Said Mekari (https://sciprofiles.com/profile/923932), Meghan Earle (https://sciprofiles.com/profile/973217), Ricardo Martins (https://sciprofiles.com/profile/author/REI2SIVoYXpGZXBiYU0zvkRjWXIRUW9jQ1U2MU9Rc09KNWo1djiIRHZ6Yz0=), Sara Drisdelle (https://sciprofiles.com/profile/989009),

Melanie Killen (https://sciprofiles.com/profile/author/WmRJMiuVwVFOQjBjMmVjVwMxY0NNd2U5Zud2V3RiSEpxVwTcbDjXm2ptMD0=),

Vicky Bouffard-Levasseur (https://sciprofiles.com/profile/author/RjdGN3ZxM01TTC9lQkZLb2cvVTNQtnluV0k1eIN5M2hK2d6Y1RKYzFjWnYzeitRcUxhTzdOR1Z3WDhxWUj) and

Olivier Dupuy (https://sciprofiles.com/profile/777566)

Brain Sci. 2020, 10(2), 81; https://doi.org/10.3390/brainsci10020081 (https://doi.org/10.3390/brainsci10020081) - 04 Feb 2020

Cited by 24 (/2076-3425/10/2/81#metrics) | Viewed by 6067

**Abstract** To improve cognitive function, moving the body is strongly recommended; however, evidence regarding the proper training modality is still lacking. The purpose of this study was therefore to assess the effects of high intensity interval training (HIIT) compared to moderate intensity continuous exercise [...] [Read more.](#)

(This article belongs to the Special Issue [Studying Brain Activity in Sports Performance](#) (/journal/brainsci/special\_issues/brain\_sports))

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### Balance Training with Electromyogram-Triggered Functional Electrical Stimulation in the Rehabilitation of Stroke Patients (/2076-3425/10/2/80)

by Kyeongjin Lee (https://sciprofiles.com/profile/497871)

Brain Sci. 2020, 10(2), 80; https://doi.org/10.3390/brainsci10020080 (https://doi.org/10.3390/brainsci10020080) - 02 Feb 2020

Cited by 4 (/2076-3425/10/2/80#metrics) | Viewed by 3626

**Abstract** This study was conducted to investigate the effects of balance training with electromyogram-triggered functional electrical stimulation (EMG-triggered FES) to improve static balance, dynamic balance, and ankle muscle activation in stroke patients. Forty-nine participants (>6 months after stroke) were randomly assigned to the experimental [...] [Read more.](#)

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### Behavioral and Electrophysiological Correlates of Performance Monitoring and Development in Children and Adolescents with Attention-Deficit/Hyperactivity Disorder (/2076-3425/10/2/79)

by Yanni Liu (https://sciprofiles.com/profile/862464), Gregory L. Hanna (https://sciprofiles.com/profile/970689),

Barbara S. Hanna (https://sciprofiles.com/profile/author/UHERNk95TVN1VCswb2tJUFrsVnJLNHITSWg3QXVBWHZ0RjhFUUtXcmd4WT0=),

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Paul D. Arnold (https://sciprofiles.com/profile/author/b05qVctnOG5XU1dxc0RoQzgwSE9yVkiPOS9ObVpCZ25QaHJPCeJHSTAVU0=) and

William J. Gehring (https://sciprofiles.com/profile/970739)

Brain Sci. 2020, 10(2), 79; https://doi.org/10.3390/brainsci10020079 (https://doi.org/10.3390/brainsci10020079) - 02 Feb 2020

Cited by 11 (/2076-3425/10/2/79#metrics) | Viewed by 2224

**Abstract** The pathophysiology of attention-deficit/hyperactivity disorder (ADHD) involves deficits in performance monitoring and adaptive adjustments. Yet, the developmental trajectory and underlying neural correlates of performance monitoring deficits in youth with ADHD remain poorly understood. To address the gap, this study recruited 77 children and [...] [Read more.](#)

(This article belongs to the Special Issue [ERP and EEG Markers of Brain Visual Attentional Processing](#) (/journal/brainsci/special\_issues/Brain\_Visual\_Attentional\_Processing))

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### Progression of Neuropsychiatric Symptoms over Time in an Incident Parkinson's Disease Cohort (ICICLE-PD) (/2076-3425/10/2/78)

by J. K. Day (https://sciprofiles.com/profile/923040),

G. W. Duncan (https://sciprofiles.com/profile/author/cTBkYU1BaXc2UzRoSTJ4eHdyMmITDlwrIUIT3JoQnBrNkhubE9wV1RwWT0=),

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D. P. Breen (https://sciprofiles.com/profile/author/aIBYdkZ2UTVNMTdBDJkMmxGTUdGZwXzRwDlBj0cHxeWVhSIhHbGJsds0=),

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Colin D. Smith (https://sciprofiles.com/profile/author/WdP7T0WtWtThCbIA5OFgvUzhvRHVTNmFLtnpGNjIiQWnNpNEE0cExmSHFLWT0=),

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Brain Sci. 2020, 10(2), 78; https://doi.org/10.3390/brainsci10020078 (https://doi.org/10.3390/brainsci10020078) - 02 Feb 2020

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**Abstract** Background: Cross-sectional studies have identified that the prevalence of neuropsychiatric symptoms (NPS) in Parkinson's disease (PD) ranges from 70–89%. Back to Top

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### Development and Evaluation of a Screening Tool to Aid the Diagnosis of Cluster Headache ([/2076-3425/10/2/77](#))

by [Alina Buture](#) (<https://sciprofiles.com/profile/930528>), [Jason W Boland](#) (<https://sciprofiles.com/profile/592086>), [Lisa Dikomitis](#) (<https://sciprofiles.com/profile/944896>), [Chao Huang](#) (<https://sciprofiles.com/profile/author/YWJXamRpWS94VjRZRHXqWWZJZjdVK01nS3J6YjZ5U0vRUCtWVOVRJdGJ6VT0=>) and [Fayyaz Ahmed](#) (<https://sciprofiles.com/profile/806821>)  
*Brain Sci.* **2020**, *10*(2), 77; <https://doi.org/10.3390/brainsci10020077> (<https://doi.org/10.3390/brainsci10020077>) - 01 Feb 2020  
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**Abstract** Cluster headache (CH), a severe primary headache, is often misdiagnosed and mismanaged. The aim of this study was to develop and evaluate a screening tool to aid the diagnosis of CH. We developed a novel 12-item screening tool. This was comprised of four [...] [Read more](#).  
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### Flanker Task Performance in Isolated Dystonia (Blepharospasm): A Focus on Sequential Effects ([/2076-3425/10/2/76](#))

by [Max Pekrul](#) (<https://sciprofiles.com/profile/904391>), [Caroline Seer](#) (<https://sciprofiles.com/profile/author/MkVsL2R1WjZrNjdLM3lQUVMvQ2g0NjdrNHlnRStoOG9lSldza1NpZmRtcz0=>), [Florian Lange](#) (<https://sciprofiles.com/profile/897826>), [Dirk Dressler](#) (<https://sciprofiles.com/profile/11857>) and [Bruno Kopp](#) (<https://sciprofiles.com/profile/728904>)  
*Brain Sci.* **2020**, *10*(2), 76; <https://doi.org/10.3390/brainsci10020076> (<https://doi.org/10.3390/brainsci10020076>) - 01 Feb 2020  
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**Abstract** Isolated dystonia manifests with involuntary muscle hyperactivity, but the extent of cognitive impairment remains controversial. We examined the executive functions in blepharospasm while accounting for motor symptom-related distractions as a factor often limiting the interpretability of neuropsychological studies in dystonia. Our control group [...] [Read more](#).

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### Using Light for Therapy of Glioblastoma Multiforme (GBM) ([/2076-3425/10/2/75](#))

by [Alex Vasilev](#) (<https://sciprofiles.com/profile/510960>), [Roba Sofi](#) (<https://sciprofiles.com/profile/500513>), [Ruman Rahman](#) (<https://sciprofiles.com/profile/319579>), [Stuart J. Smith](#) (<https://sciprofiles.com/profile/1269648>), [Anja G. Teschemacher](#) (<https://sciprofiles.com/profile/202078>) and [Sergey Kasparov](#) (<https://sciprofiles.com/profile/501144>)  
*Brain Sci.* **2020**, *10*(2), 75; <https://doi.org/10.3390/brainsci10020075> (<https://doi.org/10.3390/brainsci10020075>) - 31 Jan 2020  
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**Abstract** Glioblastoma multiforme (GBM) is the most malignant form of primary brain tumour with extremely poor prognosis. The current standard of care for newly diagnosed GBM includes maximal surgical resection followed by radiotherapy and adjuvant chemotherapy. The introduction of this protocol has improved overall [...] [Read more](#).  
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### Validity and Reliability of a Test Battery to Assess Change of Directions with Ball Dribbling in Para-footballers with Cerebral Palsy ([/2076-3425/10/2/74](#))

by [Lucas Felipe Daniel](#) (<https://sciprofiles.com/profile/author/cjUyWUxFK29ZR1RjYlIQtmJNanZWaWVNQ0pLd3lxUWZSbkIZZndoYjBmaz0=>), [Raúl Reina](#) (<https://sciprofiles.com/profile/author/eINOuHFFbE9ZcWp2UvKxNzlyVVNHRkFZRzRKeVpxeEdwVVFdkE2SUFHcz0=>), [José Irineu Gorla](#) (<https://sciprofiles.com/profile/967083>), [Tânia Bastos](#) (<https://sciprofiles.com/profile/author/bDZ0VjAyZmF1YmRjOEd4YnhLSW84OHFSaWNNsnRpR0NPK2svSG9BcmtUST0=>) and [Alba Roldan](#) (<https://sciprofiles.com/profile/845581>)  
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**Abstract** The purpose of this study was to evaluate the content and construct validity and between-sessions reliability of four agility tests requiring ball dribbling in football players with cerebral palsy (CP) with implications for classification and training. A sample of 35 football players with [...] [Read more](#).  
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### Dynamic Role of Pivotal Brain Regions in Parkinson Symptomatology Uncovered with Deep Learning ([/2076-3425/10/2/73](#))

by [Alex A. Nguyen](#) (<https://sciprofiles.com/profile/author/Y1hRbWVHc3Y2YXFVWGXNN2x6d0s0NHhQd2l3QTd6OGhnVGVieUtjpk5WT0=>), [Pedro D. Maia](#) (<https://sciprofiles.com/profile/author/SzhvY0RvcEVKcDV0TThYVmlwYzN5RXV4NDlLM2Jzd21qWmt4eGNmZXBNdz0=>), [Xiao Gao](#) (<https://sciprofiles.com/profile/author/QTJLWtQ4NTN0S3Vml2ZweHRic2FMWtJTcEpdvG5WSU1BN0dmNnFRbDE4dz0=>), [Pablo F. Damasceno](#) (<https://sciprofiles.com/profile/305125>) and [Ashish Raj](#) (<https://sciprofiles.com/profile/888843>)  
*Brain Sci.* **2020**, *10*(2), 73; <https://doi.org/10.3390/brainsci10020073> (<https://doi.org/10.3390/brainsci10020073>) - 30 Jan 2020  
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**Abstract** Background: The release of a broad, longitudinal anatomical dataset by the Parkinson's Progression Markers Initiative promoted a surge of machine-learning studies aimed at predicting disease onset and progression. However, the excessive number of features used in these models often conceals their relationship to [...] [Read more](#).  
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### Downregulation of Astrocytic Kir4.1 Potassium Channels Is Associated with Hippocampal Neuronal Hyperexcitability in Type 2 Diabetic Mice (/2076-3425/10/2/72)

by Miguel P. Méndez-González (https://sciprofiles.com/profile/794317), David E. Rivera-Aponte (https://sciprofiles.com/profile/author/YnB3YmVnT2cvUfHekIFUFRsN2tUQJZ5NH3T3ZrdVVEOFB1cDjWOXJlWT0=), Jan Benedikt (https://sciprofiles.com/profile/932517), Geronimo Maldonado-Martinez (https://sciprofiles.com/profile/129705), Flavia Tejada-Bayron (https://sciprofiles.com/profile/author/cmQ1cGo0Mm50RE95eVd0cG0xOWFpK2kwZ0ZzTTBCa1BGWFZUSXpmZk1CTT0=), Serguei N. Skatchkov (https://sciprofiles.com/profile/510488) and Misty J. Eaton (https://sciprofiles.com/profile/897255)

Brain Sci. 2020, 10(2), 72; https://doi.org/10.3390/brainsci10020072 (https://doi.org/10.3390/brainsci10020072) - 30 Jan 2020  
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**Abstract** Epilepsy, characterized by recurrent seizures, affects 1% of the general population. Interestingly, 25% of diabetics develop seizures with a yet unknown mechanism. Hyperglycemia downregulates inwardly rectifying potassium channel 4.1 (Kir4.1) in cultured astrocytes. Therefore, the present study aims to determine if downregulation of [...] [Read more.](#)

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### Acute and Chronic Insomnia: What Has Time and/or Hyperarousal Got to Do with It? (/2076-3425/10/2/71)

by Ivan Vargas (https://sciprofiles.com/profile/928265), Anna M. Nguyen (https://sciprofiles.com/profile/author/YnB2V3VXaUtwL0N0ZmhlcDRkMWxHZz09), Alexandra Muench (https://sciprofiles.com/profile/author/YjA4ZXFxUEpXRHoyR1o2UXpZWS92c2YxK1BwblhKcnZ5dHUxT2FXNiswRT0=), Célyne H. Bastien (https://sciprofiles.com/profile/222200), Jason G. Ellis (https://sciprofiles.com/profile/221185) and Michael L. Perlis (https://sciprofiles.com/profile/author/Sng5RFFIZHBQNHfANgPsQVM4NG10VFRkZxVlcUJTeHQzM1Jtb2hWQkNND0=)

Brain Sci. 2020, 10(2), 71; https://doi.org/10.3390/brainsci10020071 (https://doi.org/10.3390/brainsci10020071) - 29 Jan 2020  
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**Abstract** Nearly one-third of the population reports new onset or acute insomnia in a given year. Similarly, it is estimated that approximately 10% of the population endorses sleep initiation and maintenance problems consistent with diagnostic criteria for chronic insomnia. For decades, acute and chronic [...] [Read more.](#)

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### Spontaneous Subarachnoid Hemorrhage in a Patient with a Co-Existent Posterior Communicating Artery Aneurysm and Cervical Spine Aneurysm Associated with Ventral Arterio-Venous Fistula (/2076-3425/10/2/70)

by Aleš Hejčí (https://sciprofiles.com/profile/394138), Jan Lodin (https://sciprofiles.com/profile/1187009), Filip Cihlář (https://sciprofiles.com/profile/1147467) and Martin Sameš (https://sciprofiles.com/profile/author/L1ZJR3pMnppVHNOBc83T3h3NkFmMDhwVzFpdnFVK3V1eHNPNgo4bnNtdz0=)

Brain Sci. 2020, 10(2), 70; https://doi.org/10.3390/brainsci10020070 (https://doi.org/10.3390/brainsci10020070) - 28 Jan 2020  
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**Abstract** Severe spontaneous subarachnoid hemorrhage (SAH) is predominantly caused by aneurysm rupture, with non-aneurysmal vascular lesions representing only a minority of possible causes. We present the case of a 58-year old lady with a coincidental posterior communicating artery (PCom) aneurysm and a high cervical [...] [Read more.](#)

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### Beneficial Effect of Foot Plantar Stimulation in Gait Parameters in Individuals with Parkinson's Disease (/2076-3425/10/2/69)

by Lorenzo Brognara (https://sciprofiles.com/profile/575543), Emmanuel Navarro-Flores (https://sciprofiles.com/profile/535321), Lorenzo Iachemet (https://sciprofiles.com/profile/author/LzJEQjNJOFPaKaGNiR1NVZDNsa1kzazlY2tmbHBNMUUvmd0hqnZl6bzdFbz0=), Nuria Serra-Catalá (https://sciprofiles.com/profile/author/d3RQV3pwSFBxYzIoQUdZdXlUjYzaWY1Q0h3Rk5CcE56eVIRd3FhZnBzQT0=) and Omar Cauli (https://sciprofiles.com/profile/89020)

Brain Sci. 2020, 10(2), 69; https://doi.org/10.3390/brainsci10020069 (https://doi.org/10.3390/brainsci10020069) - 27 Jan 2020  
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**Abstract** New treatments based on peripheral stimulation of the sensory-motor system have shown to be promising in rehabilitation strategies for patients with neurological disorders, including Parkinson's disease (PD), especially in regards to reducing gait impairment, and hence, the incidence of falls. The aim of [...] [Read more.](#)

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### Lemur Tyrosine Kinase 2 (LMTK2) Level Inversely Correlates with Phospho-Tau in Neuropathological Stages of Alzheimer's Disease (/2076-3425/10/2/68)

by János Bencze (https://sciprofiles.com/profile/2536520), Máté Szarka (https://sciprofiles.com/profile/author/dEJzWdN4UnBmd1JpUHduYkJgWksxQ1lqVcTdb1JRVEJIRXILM1RYZFNVT0=), Viktor Bencs (https://sciprofiles.com/profile/author/dXBuTjhaM25oZHAVnFdmEUFncVZlZFU3YndtQjdJZXJWc2xJb2NremVyZz0=), Renáta Nóra Szabó (https://sciprofiles.com/profile/author/RXMydkxzeW1GUkdCNDhnOXR6OWpFaUFBUu2dDN2RXVDck9Xd1ByREcVND0=), László V. Módos (https://sciprofiles.com/profile/author/c29UeStCZ3VOak40eK8xOUJONHRCdDhFZkVmd3dDcFh1K3licVWVXNk5vUT0=), Dávid Ács and (https://sciprofiles.com/profile/author/REK6ndtHJoNnRDYzFTTVdJmZbYVYRpdicwVlPszZ4d0VEdStCYIMxMD0=) and

Read more [Dávid Ács and \(https://sciprofiles.com/profile/921272\)](#)  
Brain Sci. 2020, 10(2), 68; https://doi.org/10.3390/brainsci10020068 (https://doi.org/10.3390/brainsci10020068) - 27 Jan 2020  
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**Abstract** Alzheimer's disease (AD) is the most common neurodegenerative dementia. Mapping the pathomechanism and providing novel therapeutic options have paramount [Back to Top](#)

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significance. Recent studies have proposed the role of LMTK2 in AD. However, its expression pattern and association with the pathogenesis of neurofibrillary tangles (NFTs) in [..] [Read more.](#)

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[Involvement of Centrally Projecting Edinger–Westphal Nucleus Neuropeptides in Actions of Addictive Drugs \(/2076-3425/10/2/67\)](#)

by [Alfredo Zuniga \(https://sciprofiles.com/profile/939486\)](https://sciprofiles.com/profile/939486) and [Andrey E Ryabinin \(https://sciprofiles.com/profile/927343\)](https://sciprofiles.com/profile/927343)

*Brain Sci.* **2020**, *10*(2), 67; <https://doi.org/10.3390/brainsci10020067> (<https://doi.org/10.3390/brainsci10020067>) - 26 Jan 2020

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**Abstract** The centrally-projecting Edinger–Westphal nucleus (EWcp) is a brain region distinct from the preganglionic Edinger–Westphal nucleus (EWpg). In contrast to the EWpg, the EWcp does not send projections to the ciliary ganglion and appears not to regulate oculomotor function. Instead, evidence is accumulating that [..] [Read more.](#)

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Open Access Editor's Choice Article



[The Relationship between Expressive Language Sampling and Clinical Measures in Fragile X Syndrome and Typical Development \(/2076-3425/10/2/66\)](#)

by [Rebecca C. Shaffer \(https://sciprofiles.com/profile/908889\)](https://sciprofiles.com/profile/908889), [Lauren Schmitt \(https://sciprofiles.com/profile/839577\)](https://sciprofiles.com/profile/839577),

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[Ernest Pedapati \(https://sciprofiles.com/profile/author/VThoYzh2UzhqNGJ3bUJndXFpWUsxU3pHODNEZENncH3RkF4a3o4TXpXQT0=\)](https://sciprofiles.com/profile/author/VThoYzh2UzhqNGJ3bUJndXFpWUsxU3pHODNEZENncH3RkF4a3o4TXpXQT0=),

[Kelli Dominick \(https://sciprofiles.com/profile/623159\)](https://sciprofiles.com/profile/623159),

[John Sweeney \(https://sciprofiles.com/profile/author/cUs1TXU1a2dFjNIRU0eHRoUGU3cW8zRHdTTDg3TzNDVDNrSmwvbVVCqz0=\)](https://sciprofiles.com/profile/author/cUs1TXU1a2dFjNIRU0eHRoUGU3cW8zRHdTTDg3TzNDVDNrSmwvbVVCqz0=) and

[Craig Erickson \(https://sciprofiles.com/profile/569281\)](https://sciprofiles.com/profile/569281)

*Brain Sci.* **2020**, *10*(2), 66; <https://doi.org/10.3390/brainsci10020066> (<https://doi.org/10.3390/brainsci10020066>) - 26 Jan 2020

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**Abstract** Language impairment is a core difficulty in fragile X syndrome (FXS), and yet standardized measures lack the sensitivity to assess developmental changes in the nature of these impairments. Expressive Language Sampling Narrative (ELS-N) has emerged as a promising new measure with research demonstrating [..] [Read more.](#)

(This article belongs to the Special Issue [Update on the Treatment of Fragile X Syndrome \(/journal/brainsci/special\\_issues/Treatment\\_FXS\)](#).)

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Open Access Article



[Neural Stem Cells/Neuronal Precursor Cells and Postmitotic Neuroblasts in Constitutive Neurogenesis and After Traumatic Injury to the Mesencephalic Tegmentum of Juvenile Chum Salmon, \*Oncorhynchus keta\* \(/2076-3425/10/2/65\)](#)

by [Evgeniya V. Pushchina \(https://sciprofiles.com/profile/616058\)](https://sciprofiles.com/profile/616058),

[Ilya A. Kapustyanov \(https://sciprofiles.com/profile/author/Umt4MHNpTINoVi9iSzc4cWhMVMhEUU5kTIYzcVVGWjhiV1c0ZFhT9UCQT0=\)](https://sciprofiles.com/profile/author/Umt4MHNpTINoVi9iSzc4cWhMVMhEUU5kTIYzcVVGWjhiV1c0ZFhT9UCQT0=) and

[Anatoly A. Varaksin \(https://sciprofiles.com/profile/1394566\)](https://sciprofiles.com/profile/1394566)

*Brain Sci.* **2020**, *10*(2), 65; <https://doi.org/10.3390/brainsci10020065> (<https://doi.org/10.3390/brainsci10020065>) - 25 Jan 2020

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**Abstract** The proliferation of neural stem cells (NSCs)/neuronal precursor cells (NPCs) and the occurrence of postmitotic neuroblasts in the mesencephalic tegmentum of intact juvenile chum salmon, *Oncorhynchus keta*, and at 3 days after a tegmental injury, were studied by immunohistochemical labeling. BrdU+ constitutive [..] [Read more.](#)

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[CINET: A Brain-Inspired Deep Learning Context-Integrating Neural Network Model for Resolving Ambiguous Stimuli \(/2076-3425/10/2/64\)](#)

by [Rajesh Amerineni \(https://sciprofiles.com/profile/948436\)](https://sciprofiles.com/profile/948436), [Resh S. Gupta \(https://sciprofiles.com/profile/577767\)](https://sciprofiles.com/profile/577767) and

[Lalit Gupta \(https://sciprofiles.com/profile/562242\)](https://sciprofiles.com/profile/562242)

*Brain Sci.* **2020**, *10*(2), 64; <https://doi.org/10.3390/brainsci10020064> (<https://doi.org/10.3390/brainsci10020064>) - 24 Jan 2020

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**Abstract** The brain uses contextual information to uniquely resolve the interpretation of ambiguous stimuli. This paper introduces a deep learning neural network classification model that emulates this ability by integrating weighted bidirectional context into the classification process. The model, referred to as the CINET, [..] [Read more.](#)

(This article belongs to the Special Issue [Collection on Cognitive Neuroscience \(/journal/brainsci/special\\_issues/cogni\\_neuro\\_sci\)](#).)

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### Cerebellar Transcranial Magnetic Stimulation Reduces the Silent Period on Hand Muscle Electromyography During Force Control (2076-3425/10/2/63)

by Akiyoshi Matsugi (https://sciprofiles.com/profile/1747006).

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Yohei Okada (https://sciprofiles.com/profile/1585269)

Brain Sci. 2020, 10(2), 63; https://doi.org/10.3390/brainsci10020063 (https://doi.org/10.3390/brainsci10020063) - 24 Jan 2020

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**Abstract** This study aimed to investigate whether cerebellar transcranial magnetic stimulation (C-TMS) affected the cortical silent period (cSP) induced by TMS over the primary motor cortex (M1) and the effect of interstimulus interval (ISI) on cerebellar conditioning and TMS to the left M1 (M1-TMS). [...] [Read more](#).

(This article belongs to the Special Issue [Neuromodulation and Executive Control of Human Movements](#) ([/journal/brainsci/special\\_issues/Human\\_Movements](#)))

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### Surgery for Spine Disease and Intractable Pain (2076-3425/10/2/62)

by Warren Boling (https://sciprofiles.com/profile/277941)

Brain Sci. 2020, 10(2), 62; https://doi.org/10.3390/brainsci10020062 (https://doi.org/10.3390/brainsci10020062) - 24 Jan 2020

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**Abstract** Painful conditions, particularly due to head pain, spinal disease, and neuropathic pain, are highly prevalent in modern society, resulting in a significant impact on the individual due to the disability of the condition and the direct cost of associated treatments [...] [Full article](#) (2076-3425/10/2/62)

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### Investigating Age-Related Neural Compensation During Emotion Perception Using Electroencephalography (2076-3425/10/2/61)

by Tao Yang (https://sciprofiles.com/profile/841697), Caroline Di Bernardi Luft (https://sciprofiles.com/profile/author/K3JIMEh1OFFCcjZvS11BMkJYnhGZz0=),

Pei Sun (https://sciprofiles.com/profile/1662582), Joydeep Bhattacharya (https://sciprofiles.com/profile/887915) and

Michael J. Banissy (https://sciprofiles.com/profile/1850105)

Brain Sci. 2020, 10(2), 61; https://doi.org/10.3390/brainsci10020061 (https://doi.org/10.3390/brainsci10020061) - 23 Jan 2020

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**Abstract** Previous research suggests declines in emotion perception in older as compared to younger adults, but the underlying neural mechanisms remain unclear. Here, we address this by investigating how “face-age” and “face emotion intensity” affect both younger and older participants’ behavioural and neural responses [...] [Read more](#).

(This article belongs to the Special Issue [Cognitive Aging](#) ([/journal/brainsci/special\\_issues/cognitive\\_aging](#)))

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### Clinical Outcomes of MLC601 (NeuroAiD™) in Traumatic Brain Injury: A Pilot Study (2076-3425/10/2/60)

by Asra Al Fauzi (https://sciprofiles.com/profile/977506),

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Hari Basuki Notobroto (https://sciprofiles.com/profile/author/TitsL0MyZC9lQlcZnRRcEd6RkFXU3RjQi9GUbK4VEpob0FXTXo1SzlJQT0=)

Brain Sci. 2020, 10(2), 60; https://doi.org/10.3390/brainsci10020060 (https://doi.org/10.3390/brainsci10020060) - 21 Jan 2020

Cited by 3 (2076-3425/10/2/60#metrics) | Viewed by 3116

**Abstract** Background: MLC601 is a natural product formulation from Chinese medicine that is extensively studied in ischemic stroke. Traumatic brain injury (TBI) shares pathophysiological mechanisms with ischemic stroke, yet there are few studies on the use of MLC601 in treating TBI. This Indonesian pilot [...] [Read more](#).

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### The Architect Who Lost the Ability to Imagine: The Cerebral Basis of Visual Imagery (2076-3425/10/2/59)

by Sandra Thorudottir (https://sciprofiles.com/profile/916117), Heida M. Sigurdardottir (https://sciprofiles.com/profile/931217),

Grace E. Rice (https://sciprofiles.com/profile/author/UXFBS3IEQzdoNzVrR0F5K1R0c3luK3AvU2pjbWd6UVQwckdleFYza1diZz0=),

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**Abstract** While the loss of mental imagery following brain lesions was first described more than a century ago, the key cerebral areas involved remain elusive. Here we report neuropsychological data from an architect (PL518) who lost his ability for visual imagery following a bilateral [...]. [Read more.](#)  
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**Abstract** The role of emotional landmarks in navigation has been scarcely studied. Previous findings showed that valence and arousal of landmarks increase landmark's salience and improve performance in navigational memory tasks. However, no study has directly explored the interplay between valence and arousal of [...]. [Read more.](#)  
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Article

# Clinical Outcomes of MLC601 (NeuroAiD™) in Traumatic Brain Injury: A Pilot Study

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**Abstract:** Background: MLC601 is a natural product formulation from Chinese medicine that is extensively studied in ischemic stroke. Traumatic brain injury (TBI) shares pathophysiological mechanisms with ischemic stroke, yet there are few studies on the use of MLC601 in treating TBI. This Indonesian pilot study aimed to investigate clinical outcomes of MLC601 for TBI. Methods: This randomized controlled trial included subjects with nonsurgical moderate TBI allocated into two groups: with and without MLC601 over three months in addition to standard TBI treatment. Clinical outcomes were measured by the Glasgow Outcome Scale (GOS) and Barthel Index (BI) observed upon discharge and at months (M) 3 and 6. Results: Thirty-two subjects were included. The MLC601 group ( $n = 16$ ) had higher GOS than the control group ( $n = 16$ ) at all observation timepoints, though these differences were not statistically significant ( $p = 0.151$ ). The BI values indicated a significant improvement for the MLC601 group compared to the control group at M3 (47.5 vs. 35.0;  $p = 0.014$ ) and at M6 (67.5 vs. 57.5;  $p = 0.055$ ). No adverse effects were associated with MLC601 treatment. Conclusion: In this cohort of nonsurgical moderate TBI subjects, MLC601 showed potential for a positive effect on clinical outcome with no adverse effects.

Keywords: MLC601; traumatic brain injury; nonsurgical lesion; clinical outcome

## 1. Introduction

Head injury is the leading cause of mortality among trauma patients [1]. Managing the sequelae of head injury remains challenging. Every year, about 1.4 million people suffer from traumatic brain injury (TBI), of which 50,000 die. More than 5.3 million Americans, or 3% of the population, live with TBI-related disability. Head injury and its consequences remain a significant global public health concern [2].

Optimal management of TBI should aim to prevent and treat the increase in intracranial pressure and other secondary brain insults, as well as to preserve cerebral perfusion pressure and optimize cerebral oxygenation. For each unique case, surgical or nonsurgical management might be the best therapeutic strategy. The treating physician must make decisions carefully to achieve good patient outcomes.

Whether the physician decides on surgical or nonsurgical management, the effectiveness of both treatments is still questionable. Despite recent advances in neurosurgical and neuro-intensive care, the long-term disabilities secondary to brain injury are still dramatic [3].

MLC601 (NeuroAiD™) is an example of a pharmacological intervention for neuroprotection and neurorepair in acute ischemic stroke [4]. MLC601 (0.4 g per capsule) consists of nine herbal components (0.57 g *Radix Astragali*, 0.114 g *Radix Salvia miltiorrhizae*, 0.114 g *Radix Paeoniae rubra*, 0.114 g *Rhizoma chuanxiong*, 0.114 g *Radix Angelicae sinensis*, 0.114 g *Prunus persica*, 0.114 g *Carthamus tinctorius*, 0.114 g *Radix Polygalae*, and 0.114 g *Rhizoma acori tatarinowii*) and five animal components (0.0285 g *Cornu saigae tataricae*, 0.095 g *Buthus martensii*, 0.0665 *Hirudo*, 0.0665 g *Eupolyphaga seu steleophaga*, and 0.0285 g *Calculus bovis artifactus*). The mixture contains molecules which activate neurological repair mechanisms, including astragaloside IV, salvianolic acid B, and tanshinone IIB. MLC601 has been found to stimulate expression of brain-derived neurotrophic factor (BDNF) to enhance neurogenesis, to promote cell proliferation, and to stimulate neurite outgrowth, the development of a dense axonal and dendritic network, and to activate  $K_{ATP}$  channels [5,6]. MLC601 has been shown to significantly attenuate neurological motor deficits, brain apoptosis, and activated microglia (e.g., microgliosis, amoeboid microglia, and microglial overexpression of TNF- $\alpha$ ) associated with cerebral contusion caused by TBI [7].

This natural product formulation has an excellent clinical and biological safety profile [8,9]. It has been studied and used widely for post-stroke recovery, showing persistent clinical benefits and safety in a large multicenter, randomized, double-blind, placebo-controlled trial. The administration of MLC601 for three months, in addition to standard stroke therapy, significantly improved the odds of achieving functional independence (modified Rankin scale from 0 to 1) compared to placebo, with significant benefit starting at six months and persisting up to 18 months after stroke [10].

Its neuroprotective effects suggest its potential to be more widely applied, for example, in TBI subjects. Theadom et al. conducted a pilot randomized, placebo-controlled clinical trial in 2018 which demonstrated beneficial effects of NeuroAiD™ on cognitive outcomes after mild or moderate TBI, particularly for complex attention and executive functioning [11]. Clinical outcomes from exploring NeuroAiD™ use among moderate TBI subjects, managed without surgery, have not been investigated.

We thus planned this pilot comparative study of NeuroAiD™, entitled “NEurological Prognosis after Brain Trauma and Use of NEuroAiD™”, or the NEPTUNE Study, to assess its effects on the functional and neurological outcome of moderate TBI subjects with nonsurgical management. The study hypothesis is that NeuroAiD™ would improve clinical outcomes in TBI as assessed by the Glasgow Outcome Scale (GOS) and Barthel Index (BI).

## 2. Materials and Methods

This pilot study was a randomized controlled trial enrolling subjects with moderate TBI. The sample size for this study was calculated using the sample size formula for two independent samples study. This formula was designed for a study of two subject groups receiving different treatments with the primary outcome presented descriptively as median results [12].

The randomization was performed by randomly choosing a sealed envelope containing a card labeled 1 or 2 for each subject. Subjects receiving card 1 were designated to receive the additional treatment of MLC601; the subjects receiving card 2 were designated as the control group without additional treatment of MLC601. Comparisons were neither double-blind nor placebo-controlled. Administration of MLC601 was the independent variable, while Glasgow Outcome Scale (GOS) and Barthel Index (BI) were the dependent variables.

This study was performed by observing and comparing the clinical outcome of nonsurgical cases with moderate TBI who received MLC601 (treatment group) to subjects who did not receive MLC601 (control group). Written informed consent was gathered from all subjects.

We included TBI subjects with the following criteria:

### 2.1. Inclusion Criteria

- Moderate TBI (Glasgow Coma Scale or GCS of 9 to 13)
- Age 18 to 60 years old
- Closed head injury occurred within two days of MLC601 administration
- TBI with conservative/nonsurgical management
- Medically stable with no major systemic comorbidities or metabolic abnormalities
- Written informed consent

### 2.2. Exclusion Criteria

- Intracranial lesion on initial imaging or during observation for which surgery is indicated
- Bilateral unresponsive pupil
- Spinal cord injury
- History of cardiopulmonary arrest during treatment
- Life-threatening status

Standard treatment was obtained from Dr. Soetomo General Academic Hospital guidelines for TBI. Airway, breathing, and circulation stabilization were ensured in all subjects followed by symptomatic medical treatment required for each subject. Every subject received standard care and medication using the Moderate TBI Algorithm from Dr. Soetomo General Academic Hospital. MLC601 was administered via a nasogastric tube throughout the treatment duration. Treatment with MLC601 started on Day 2 in the observation ward, then continued for three months. The dose schedule was four capsules three times a day according to the standard dose of MLC601 in adults.

GOS has been widely implemented in assessing TBI outcome particularly in the first year after trauma. GOS is favored for its simplicity and due to clinicians' familiarity with the scale. GOS has five ordinal classifications: GOS 1 is dead, GOS 2 is persistently vegetative, GOS 3 is severely disabled, GOS 4 is moderately disabled, and GOS 5 is good recovery [13].

BI is a standardized performance assessment of activities of daily living (ADLs). BI includes 10 activities to measure the need for assistance: feeding, showering, grooming, dressing, bowels, bladder, toilet use, transfers, mobility, and stairs.

Outcomes measured using GOS and BI were assessed in binomial classification as improved or not improved. Improvement was defined by the change of GOS and BI scale prior to the MLC601 administration compared to post-administration.

GOS and BI were both observed for a total of six months after discharge. Follow-up assessments were performed at months 3 (M3) and 6 (M6) through clinic visit consultations. Occurrence of any adverse effects in both groups was reported.

Data were presented descriptively as median, standard deviation (SD), median, interquartile deviation (IQD), and minimum and maximum score. The data analysis and comparisons were analyzed using SPSS for Mac v23.0. Inferential analysis was performed using the Wilcoxon–Mann–Whitney test for comparing the two groups, and the Friedman test for comparing the times of observation in each group.

The study was conducted in accordance with the Declaration of Helsinki, and the protocol was approved by the Ethical Committee in Health Research of the Dr. Soetomo General Academic Hospital, Surabaya (0619/KEPK/Ix/2018), on 13 September 2018.

## 3. Results

### 3.1. Baseline Characteristics

A total of 32 subjects were enrolled. Table 1 shows the baseline characteristics for both groups, each having 16 subjects. The mean (SD) age was 41.9 (21.6) years in the control group and 35 (16.7) years in the MLC601 group; this difference was not statistically significant. The features and extent of intracranial lesions did not reveal any significant differences between groups. These characteristics exhibit a normal data distribution assessed and ascertained using the Kolmogorov–Smirnov test. All

subjects included in this study were diagnosed with moderate TBI, where the mean (SD) of initial GCS was 10.0 (1.0) in the control group and 9.5 (1.0) in the MLC601 group.

**Table 1.** Baseline characteristics.

Variables	MLC601 (n = 16)	Control (n = 16)	p Value
Age (Mean, SD)	35 (16.7)	41.9 (21.6)	0.320
Sex			
Male (n = 24)	12	12	1.000
Female (n = 8)	4	4	
Intracranial lesion (n, % of total per group)			
EDH	1 (6.3%)	2 (12.5%)	0.770
SDH	0 (0.0%)	1 (6.3%)	
ICH	3 (18.8%)	1 (6.3%)	
SAH	1 (6.3%)	1 (6.3%)	
Multiple lesions	7 (43.8%)	8 (50.0%)	
No lesion	4 (25%)	3 (18.8%)	
GCS (median, IQR) at admission	9.50 (1.0)	10.0 (1.0)	

EDH = extradural hematoma; SDH = subdural hematoma; ICH = intracerebral hemorrhage; SAH = subarachnoid hemorrhage.

### 3.2. The Difference in GOS between Both Groups

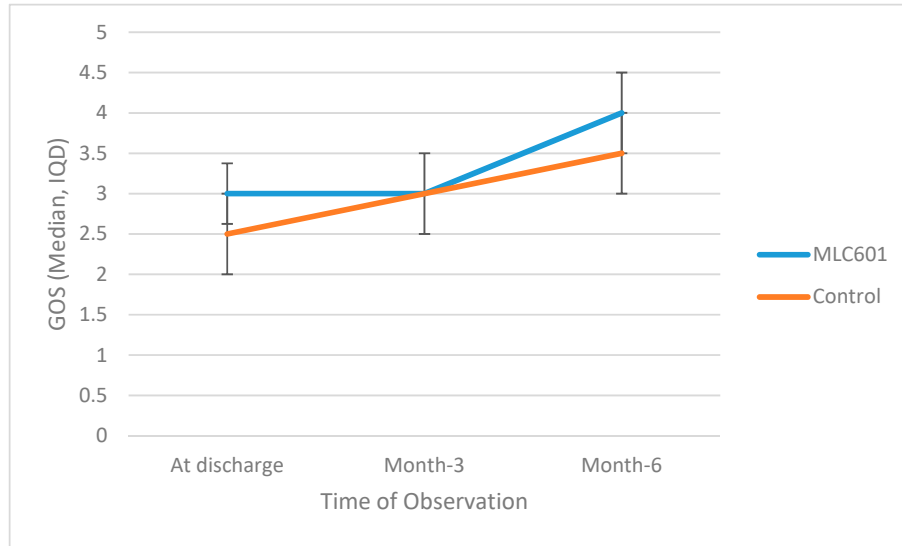
At discharge, median GOS in the MLC601 group was slightly higher than in the control group (3 and 2.5, respectively), as shown in in Table 2. There was no significant difference ( $p = 0.151$ ).

**Table 2.** Glasgow Outcome Scale (GOS) results.

GOS Median (IQD) Min–Max	Group		p *
	MLC601 (n = 16)	Control (n = 16)	
At discharge	3.0 (0.375) <sup>a</sup> 2–3	2.5 (0.5) <sup>a</sup> 2–3	0.151
Month 3	3.0 (0.5) <sup>b</sup> 2–4	3.0 (0.0) <sup>b</sup> 2–4	0.080
Month 6	4.0 (0.5) <sup>c</sup> 3–4	3.5 (0.5) <sup>c</sup> 2–4	0.354
p **	0.000	0.000	

\* Wilcoxon–Mann–Whitney test; \*\* Friedman test; <sup>a,b,c</sup> the different superscripts in one column reveal differences between groups.

Trajectories of GOS over time are shown in Figure 1. Higher GOS was seen in the MLC601 group again at M6 compared to the control group, but this was not statistically significant ( $p = 0.354$ ). There was a significant improvement as measured by GOS in the MLC601 group from time of discharge to M3 to M6 (3.0 to 3.0 to 4.0, respectively).



**Figure 1.** Trajectories of GOS over time between groups.

### 3.3. The Difference of Barthel Index between Both Groups

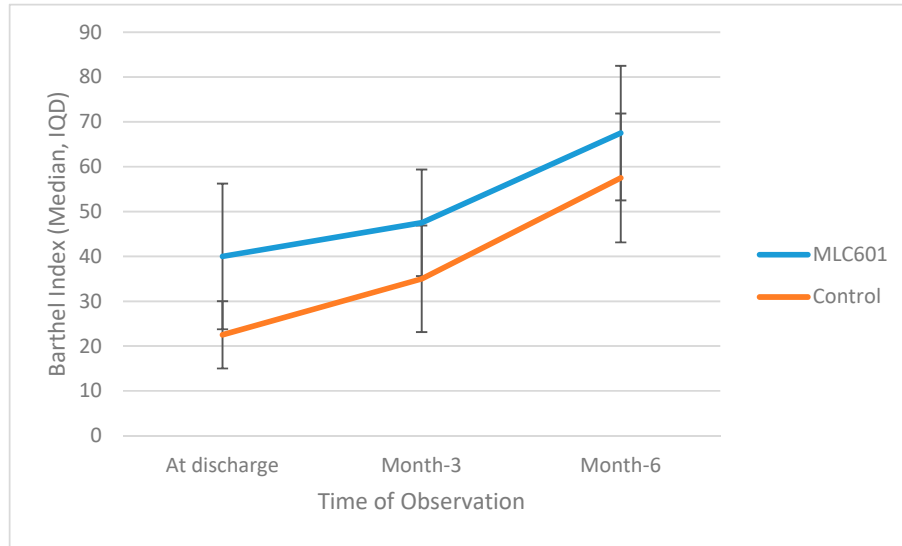
The MLC601 group had higher median BI values compared to the control group at all time points, reaching significance at M3 (47.5 vs. 35.0;  $p = 0.014$ ) and at M6 (67.5 vs. 57.5;  $p = 0.055$ ), as shown in Table 3.

**Table 3.** Barthel Index (BI) results.

Barthel Index Median (IQD) Min–Max	Group		$p^*$
	MLC601 ( $n = 16$ )	Control ( $n = 16$ )	
At discharge	40.0 (16.25) <sup>a</sup> 10–55	22.5 (7.5) <sup>a</sup> 10–55	0.094
Month 3	47.5 (11.875) <sup>b</sup> 25–75	35.0 (11.875) <sup>b</sup> 15–65	0.014
Month 6	67.5 (15.0) <sup>c</sup> 30–80	57.5 (14.375) <sup>c</sup> 25–75	0.055
$p^{**}$	0.000	0.000	

\* Wilcoxon–Mann–Whitney test; \*\* Friedman test; <sup>a,b,c</sup> the different superscripts in one column reveal differences between groups.

Trajectories of BI over time are shown in Figure 2. There was significant improvement of BI in the MLC601 group from time of discharge to M3 to M6 (40.0 to 47.5 to 67.5, respectively).



**Figure 2.** Trajectories of BI over time between groups.

### 3.4. Safety

None of our subjects in either group experienced any adverse effects. MLC601 was well-tolerated.

## 4. Discussion

TBI is a complex condition involving primary and secondary brain injuries. The search for combined therapies could be a better strategy for treatment, using formulations composed of more than one active ingredient. Traditional Chinese medicine (TCM) has been advocated for centuries to treat a wide variety of medical conditions. TCM consisting of multiple medicinal herbal extracts has received attention in medical academia. NeuroAiD™ has emerged as a promising treatment to support neurological recovery. Several clinical trials and reports have established its safety profile [14]. A report by Tsai et al. found that MLC601 had early positive effects in reducing TBI-induced cerebral contusions in rats. TBI-induced cerebral contusion was associated with neurological motor deficits, brain apoptosis, and activated microglia [7].

Baseline characteristics of subjects in this study, including the type of intracranial injury, did not show a statistically significant difference between the MLC601 group and the control group. Overall, these results demonstrate that the clinical outcome measured by GOS and BI was improved with the addition of NeuroAiD™ to standard nonsurgical TBI treatment. Significant improvement in BI at M3 with a positive trend close to statistical significance at M6 suggests the potential use of MLC601 in moderate TBI. The lack of significant differences in GOS may be due to the short follow-up of six months and lack of study power due to the small sample size of 32. However, the mean GOS of the MLC601 group was better than the control group at all time points. This study suggests that MLC601 may improve functional recovery and independence following moderate TBI, particularly in nonsurgical cases.

This study evaluated the effect of NeuroAiD™ (MLC601) in moderate TBI managed conservatively without surgery. We chose to include such subjects in order to facilitate the clinical assessment of the effects of MLC601 on head trauma with minimal risk of bias.

The clinical presentation of patients with findings on CT scan suggests a focal or diffuse injury in brain tissue. The utilization of GOS and BI is appropriate for these patients as in this clinical trial. Many clinical studies try to find a better strategy to improve outcome in TBI subjects. However, trials of many neuroprotective drugs have failed to show efficacy in humans. Because of the complexity in the pathophysiology of TBI, there is increasing evidence that using combination therapies composed



of more than one active ingredient could represent a better treatment strategy [7]. Interestingly, there is evidence that NeuroAiD™ acts as a neurorestorative agent targeting different pathways in the TBI cascade. This combination therapy may represent a new paradigm in the management of TBI.

Functional deficits are common neurological sequelae in TBI subjects. Recovery from brain tissue damage after TBI depends on effective stimulation of neurorepair and neuroregeneration. NeuroAiD™ (MLC601) has been shown *in vitro* and in animal models to demonstrate these important capacities. These mechanisms are important for activating neural plasticity and regeneration. Based on our study, subjects' functional status (GOS and BI) during the 3–6 month observation period showed a promising improvement that indicates that MLC601 may induce neural plasticity and neuronal regeneration. Shahripour et al. also reported that MLC601 also assists functional recovery after brain infarct by increasing significantly cerebral blood flow velocity [15]. This may be mediated by an effect on stimulating microcirculation.

Clinical trials on MLC601 have not shown any serious adverse effects. Non-serious adverse effects include nausea and vomiting [16]. Ghandehari et al. [17] reported no serious adverse effects of MLC601; headache was the only non-serious adverse effect. Mild abdominal discomfort was reported by two patients after receiving MLC601. In this study, there was no report of any adverse effect after receiving MLC601.

NeuroAiD™ (MLC601) has neuroprotective and neurorestorative effects in TBI, which improve functional outcome. In this study, it has been shown that MLC601 is helpful in improving the clinical outcome of subjects with moderate brain injury who do not need surgery. This provides new input for medical treatment alternatives in addition to drugs that have been studied previously as neuroprotective and neuroregeneration agents.

As with any pilot study, ours has limitations, including the small sample size and the open label study design. However, despite such a design, we obtained a control arm with a similar pattern of baseline characteristics as those of the MLC601 group. According to a conference report from 1991, the recommended timing of outcome measurement and primary endpoint for clinical trial in moderate TBI patients (GCS 9–12) is three months [18]. A longer follow-up period might be more convincing, but this is to be balanced with the risk of increasing the number of dropouts and subject loss at follow-up.

Despite its limited number of cases, non-operative moderate TBI with cognitive impairment can become a significant burden. This study provides a novel therapy to optimize the cognitive restoration in non-operative patients. This finding is in accordance with the result of a statistically significant improvement of cognitive function as assessed by the Barthel Index.

## 5. Conclusions

This pilot study showed that MLC601 has a favorable effect in improving clinical outcomes in the setting of nonsurgical moderate TBI without any adverse effects reported during the follow-up. This is depicted in the significantly improved Barthel Index in a 3-month follow-up of the MLC601 group. In accordance with previous experimental studies on animal models and approved clinical studies, the administration of MLC601 in TBI patients showed promising outcomes in neuroprotection and neurorepair. MLC601 also assists functional recovery after brain infarct by increasing significantly cerebral blood flow velocity. Previous human clinical trials using this drug in head injuries also showed improvements in cognitive function. This pilot study is the first clinical study to examine the effects of MLC601 on moderate TBI subjects, managed without surgery. But considering the study's limitations (small sample size, no double-blind placebo-controlled comparison, need for longer follow-up), the beneficial effects require further confirmation in larger placebo-controlled trials for TBI with longer follow-up.

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K.T.P., I.G.M.A.R.R., T.A., J.W., M.A.P., A.T., A.H.B., and H.B.N.; visualization, A.A.F., K.T.P., and I.G.M.A.R.R.; supervision, A.A.F., J.W., M.A.P., A.T., A.H.B., and H.B.N.; project administration, A.A.F. and K.T.P.; funding acquisition, A.A.F. and K.T.P. All authors have read and agreed to the published version of the manuscript.

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