

Santiago, 27 septiembre 2021

PROGRAMA

Symposia

1.- Rare genetic diseases and their impact on neurodevelopment and CNS function.

Coordinator: María Paz Marzolo

- a) Victor Faundez, "Systems Biology of rare neurological disorders". Department of Cell Biology, Emory University, Atlanta, USA.
- b) Bredford Kerr, "Environmental enrichment as a bypass to attenuate the progression of Rett syndrome-like phenotype in a mouse model of the disease". Centro de Biología Celular y Biomedicina. Facultad de Medicina y Ciencia. Universidad San Sebastián, Chile.
- c) María-Paz Marzolo, "The AP-4 adaptor complex, mutated in Hereditary Spastic Paraplegia, has ApoER2 as a new cargo with relevant neuronal functions Department of Cell and Molecular Biology. Faculty of Biological Sciences. Pontificia Universidad Católica de Chile, Chile.
- d) Hugo J Bellen, "Fly tools and approaches to study neurological rare and common human diseases". Departments of Molecular and Human Genetics and Neuroscience. Texas Children Hospital. Baylor College of Medicine, USA.

2.- Ecological Cognitive Neuroscience: moving towards real-life Science.

Coordinator: Rodrigo Montefusco; María de los Ángeles Juricic

- a) Rodrigo Montefusco, "How valid are our experimental conclusions in real life?". Faculty of Medicine, Center for Interdisciplinary Studies on Nervous System (CISNe). Universidad Austral de Chile. Chile.
- b) Paul Matusz, "Bridging past and future in education: Integrating multisensory models of brain and cognition with naturalistic laboratory research". Hearing & Speech Sciences, Vanderbilt University, Nashville, TN, USA
- c) Jacqueline Snow, "Why realism is important for understanding human brain and behavior". Department of Psychology at the University of Nevada, Reno. USA.
- d) Francisco J. Parada, "MoBI meets 4E cognition: getting ready for real-world neuroscience". Facultad de Psicología, Universidad Diego Portales. Chile.

3.- Microexons and Central Nervous System Development.

Coordinator: María Estela Andres / Paola Haeger

- a) Manuel Irimia., "Parallel evolution of neural microexons in insects and vertebrates". Centre for Genomic Regulation, Barcelona Institute of Science and Technology, Barcelona. España.
- b) Paola Haeger, "Cognitive impairment induced by prenatal ethanol exposition: New insights into gene expression dysregulation". Departamento de Ciencias Biomédicas, Facultad De Medicina, Universidad Católica Del Norte, Coquimbo, Chile.
- c) Elena Battaglioli, "Microexon contribution to environmental-stress adaptation: the interesting case of LSD1". Department of Medical Biotechnology and Translational Medicine, Università degli Studi di Milano-Via Fratelli Milano. Italy.

4.- Mente, Cerebro y Educación.

Coordinator: Paulo Barraza

- a) Elena Salillas, "Redes cerebrales tras la aritmética simple: evidencia de magnetoencefalografía". Universidad de Zaragoza, España.
- b) Marcela Peña, "Tecnologías interactivas para apoyar el desarrollo del lenguaje en pre-escolares". Pontificia Universidad Católica de Chile, Chile.
- c) Cecilia Calero, "Enseñar... ¿Cómo y para qué?". Universidad Torcuato Di Tella, Argentina.
- d) Paulo Barraza, "El Cerebro del Profesor: bases neurocognitivas de la docencia experta". Universidad de Chile, Chile.

5.- Young Neuroscientist Symposium.

Coordinator: Patricio Orio

6.- Brain aging and glial cells – When neuroinflammation shapes brain function.

Coordinator: Maite Castro / Francisco J. Rivera

- a) Flavia E. Saravia, "Microglia in the context of aging and Alzheimer's disease". Faculty of Exact & Natural Sciences, University of Buenos Aires. Argentina.
- b) Ludwig Aigner, "Targeting Brain Rejuvenation for the Treatment of Dementia". Spinal Cord Injury and Tissue Regeneration Center Salzburg (SCI-TReCS), Institute of Molecular Regenerative Medicine, Paracelsus Medical University Salzburg, Austria.
- c) Saul Villeda, "Systemic mechanisms of brain rejuvenation" Endowed Chair in Biomedical Sciences, School of Medicine, University of California, San Francisco. USA.

7.- Molecular basis of memory and depression.

Coordinator: Jimmy Stehberg

- a) Irit Akirav, "Targeting the endocannabinoid system in stress-related disorder". Department of Psychology, Haifa University, Haifa. Israel
- b) Aline Desmedt, "A molecular switch in the transition from normal to PTSD-like fear memory". Neurocentre Magendie, INSERM U1215. Bordeaux University. France.
- c) Jimmy Stehberg., "Role of astrocytes in memory and depression". Instituto de Ciencias Biomédicas, Universidad Andrés Bello, Santiago. Chile.
- d) Kobi Rosemblum. "New inhibitors for QR2 to fight neurodegeneration and AD". Sagol Dept Neurobiology, University of Haifa. Israel.

Conference 1

Benno Roozendaal, Donders Institute. Radboud University Medical Center. Nijmegen. The Netherlands.

Title: Stress hormone effects on different aspects of memory quality.

Coordinator: Jimmy Stehberg

Conference 2

Casper Hoogenraad, Genetech, USA.

Title: Building a neuron: cytoskeleton organization and transport mechanisms'

Coordinator: Christian Gonzalez

Roundtable

Coordinator: Christian Gonzalez

“Humberto Maturana (1928-2021): Una visión sistémica de los seres vivos”

Jorge Mpodozis, “Evolución a través de la deriva del Nicho Ontológico”. Departamento de Biología, Facultad de Ciencias, Universidad de Chile.

Juan-Carlos Letelier, “Algo Necesario para entender la génesis del concepto de Autopoiesis: Las interacciones entre Humberto Maturana y Heinz von-Foerster (1963-2002)”. Departamento de Biología, Facultad de Ciencias, Universidad de Chile.

Maria de la Luz Cardenas: “Autopoiesis y Metabolismo”. Bioénergétique et Ingénierie des Protéines, Centre National de la Recherche Scientifique (CNRS), Marseilles, France.

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Atentos saludos,

COMITÉ ORGANIZADOR