

## **RESULTADO DA SELEÇÃO**

### Symposium # 01

#### Title: <u>Signaling Pathways and Novel Targets in Neurodegenerative</u> <u>Diseases</u>.

**Chair**: <u>Rui Daniel S. Prediger</u>, PhD, Dept. Pharmacology, Federal University of Santa Catarina, Florianópolis, Brazil.

**Abstract**: The primary goal of this symposium is to discuss experimental and clinical findings indicating signaling pathways modifications (e.g., GPCR oligomers and NO) in Parkinson's disease and Huntington's disease and to highlight their relevance for the study of new neuroprotective agents including agmatine and physical exercise.

<u>Rui Daniel S. Prediger</u>, PhD, Dept. Pharmacology, Federal University of Santa Catarina, Florianópolis, Brazil

# Talk: <u>Agmatine in Parkinson's disease: a new antidyskinetic and</u> <u>neuroprotective agent</u>.

<u>Francisco Ciruela</u>, PhD, Unitat de Farmacologia, Dept. de Patologia i Terapèutica Experimental. Facultat de Medicina. Universitat de Barcelona, Barcelona, Spain

Talk: Molecular dynamics of GPCR oligomers in Parkinson's disease.

Ana Ledo, PhD, Center for Neuroscience and Cell Biology, Coimbra, Portugal, Faculty of Pharmacy, University of Coimbra, Coimbra, Portugal.

#### Talk: <u>Profiling Nitrergic Signaling Pathways in a Transgenic Mouse Model</u> of Huntington's Disease.

<u>Joana Gil-Mohapel</u>, PhDDivision of Medical Sciences, Island Medical Program, University of Victoria, Victoria, BC, Canada. **Talk: The Role of Hippocampal Dysfunction in Huntington's Disease.** 

<u>Frederico C. Pereira</u>, PhD, Pharmacology and Experimental Therapeutics/IBILI, Faculty of Medicine, University of Coimbra, Portugal.

#### Talk: <u>Exercise prevents long-lasting depressive-like behavior induced by</u> methanphetamine in mice.

#### Title: Molecular and cellular mechanisms controlling Neural Stem Cells.

Chair: <u>Patrícia P. Garcez</u>, ICB , Federal University of Rio de Janeiro, Brazil

**Abstract:** Neurogenesis is a complex biological process fundamental for the formation of the Nervous System and for particular functions in the adult brain. It relies on tightly regulated series of molecular and cellular mechanisms controlling neural stem cells. Defects in any of those steps may result in severe neuropathologies such as microcephaly, autism and epilepsy or affect mood control, memory and learning. In this satellite symposium we will discuss several mechanisms that control and fine-tune neurogenesis during embryonic and adult life. The invited speakers contribute extensively to this vibrant stem cell research area. The talks proposed here aim to broaden and unify our understanding of several aspects of neurogenesis, including brain development, plasticity, adult neurogenesis and brain disorders.

<u>Patrícia P. Garcez</u>, ICB , Federal University of Rio de Janeiro, Brazil, **Talk:** <u>Essential role of Centrosomes in Neurogenesis</u>.

<u>Elena Taverna</u>, Max Planck Institute of Molecular Cell Biology and Genetics, Germany.

Talk: Cell biology of neural stem cell fate transition.

<u>Itaru Imayoshi</u>, Kyoto University, Japan. **Talk: <u>Oscillatory Control of Determination Factors for Multipotency versus</u> <u>Fate Choice in Neural Stem Cells</u>.** 

<u>Silvia Cappello</u>, Helmholtz Zentrum München, Germany. **Talk: <u>Central role of neural stem cells in neuronal migration disorders</u>.** 

<u>Shohei Furutachi</u>, University of Tokyo, Japan. Talk: <u>Mechanisms that control adult neural stem cell quiescence and</u> <u>neurogenesis</u>.

<u>Juan Manuel Encinas</u>, Ikerbasque Research, Spain. Talk: <u>New Properties of Hippocampal Neural Stem Cells under Neuronal</u> <u>Hyper-excitation</u>.

<u>Noelia Urbán</u>, Francis Crick Institute, UK Talk: <u>Huwe1 controls stem cell proliferation in the hippocampus through</u> <u>Ascl1</u>.

#### Title: New trends in stress research in Brazil.

**Chair:** <u>Newton Sabino Canteras</u>, Department of Anatomy, Institute of Biomedical Sciences/USP, São Paulo, Brazil

**Abstract:** Stress research in Brazil has a long tradition and a successful history. Several groups across the country have trained promising young investigators, and the idea of this Symposium is to show a sample of these new researchers. All the participants were trained in important research centers and recently hired in important Brazilian universities. We hope that this Symposium should serve as a productive discussion meeting and portrait the new trends in stress research in Brazil.

<u>Amanda Ribeiro de Oliveira</u>. Group of Psychobiology, Dept. Psychology, Center of Education and Human Sciences (CECH), Federal University of São Carlos (UFSCar), Brazil.

## Talk: <u>Role of dopamine and glucocorticoids in the expression of conditioned fear</u>.

<u>Alline C</u>. Campos, Department of Pharmacology, School of Medicine of Ribeirão Preto, University of Sao Paulo, Brazil.

## Talk: <u>Behavioral implications of adult neurogenesis during stress</u> responses.

Samia Joca, Lab. Pharmacology, Dept. Physic and Chemistry, School of Pharmaceutical Sciences of Ribeirão Preto, University of São Paulo (FCFRP-USP), Brazil.

#### Talk: <u>Molecular correlates in stress and depression: new insights from</u> <u>animal models</u>.

<u>Fabrício Moreira</u>, Department of Pharmacology, ICB, Federal University of Minas Gerais (UFMG), Brazil.

## Talk: <u>Don`t panic: The endocannabinoid system as an anti-aversive</u> mechanism in the brain.

<u>Simone Cristina Motta</u>, Assistant Professor, Department of Anatomy, Institute of Biomedical Sciences, University of São Paulo, Brazil. **Talk:** <u>Manipulating neural circuits of social stress</u>.

#### Title: Toward a neural basis of memory forgetting

**Chair:** <u>Lucas de Oliveira Alvares</u>, PhD, Neurobiology of Memory Laboratory, Dept. Biophysics, Bioscience Institute, Federal Universidade of Rio Grande do Sul (UFRGS), Porto Alegre, Brazil.

**Abstract:** Although the ability to retain life experiences into long-term memory is crucial to guide properly our behavior, most of our daily life experiences fade over time. Despite the fact that forgetting be the most common outcome in memory process, it has being largely neglected in the memory field. Is there any biological function for the "physiological" forgetting? What determines how long a memory will last and its quality? What are the mechanisms underpinning memory forgetting? The present symposium will address those questions and discuss recent advances in the understanding of the neurobiology of memory maintenance and forgetting.

Lucas de Oliveira Alvares (UFRGS), Brazil.

Talk: <u>Stress levels during learning act as a switch, guiding the fate of</u> memory guality

<u>Ricardo Marcelo Sachser</u>, Neurobiology of Memory Laboratory (UFRGS), Brazil.

Talk: <u>May the decay of spatial long-term memory be prevented by</u> <u>controlling GluA2-AMPARs endocytosis?</u>

Josué Haubrich, Psychobiology and Neurocomputation Laboratory (UFRGS), Brazil.

 Talk: How stable is the memory trace? Updating on memory

 destabilization and reconsolidation

Paula Lunardi, Neurobiology of Memory Laboratory (UFRGS), Brazil. Talk: Forgetting under pathological conditions: the case of dementias

#### Title: Neuronal circuitry of Addiction and Stress

Chair: Fábio Cardoso Cruz, University of São Paulo, São Carlos, Brazil.

**Abstract:** Acute and repeated exposure to drugs produces neuroadaption and long-term memory of the experience, but the cellular and molecular processes involved are only partially understood. With the advent of genomics and proteomics, an extraordinary opportunity now exists to develop comprehensive models of neuroadaptative processes fundamental to addiction, withdrawal, craving, and relapse to drug use and to brain function. This symposium will provide an integrated view of current and novel research on neuroadaptive responses to addiction and the influence of stress on addiction.

<u>Leandro F</u>. Vendrusculo, National Institute on Drug Abuse/NIH /EUA. **Talk:** <u>Neurobiology of Alcohol Addiction</u>.

<u>Bruce T</u>. Hope, National Institute on Drug Abuse/NIH /EUA. **Talk:** <u>New technologies for examining the role of neuronal ensembles in</u> <u>drug addiction and fear.</u>

Nuno Sousa, Professor at the School of Health Science, University of Minho, Portugal.

Talk: Mechanisms of stress-induced neuroplastic events and its effects on neuronal networks involved on psychiatric diseases.

<u>Rodrigo Molini Leão</u>, School of Pharmaceutical Sciences, São Paulo State University, Brazil

Talk: <u>The Fos-Cre transgenic rat system: a new tool to examining causal</u> roles of neural ensemble in addiction.

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Diretoria da SBNeC (2014-2017)