

## YOUNG INVESTIGATOR LECTURES

**WEDNESDAY 24<sup>th</sup> - 14:30 - 15:30** (YIL 1-3) Room A

**Chairs:** Verónica de la Fuente and Eduardo Garbarino-Pico

1. **Natali L. Chanaday R (UT Southwestern Medical Center):** Studying synaptic transmission at the level of individual synaptic vesicles.
2. **Victoria Acosta Rodriguez (UT Southwestern Medical Center):** Dietary restriction promotes tissue-specific reprogramming of circadian gene expression.
3. **Ezequiel Axel Gorostiza (IFEC-CONICET-UNC):** Behavioral plasticity and action selection in *Drosophila*.

**WEDNESDAY 24<sup>th</sup> - 14:30 - 15:30** (YIL 4-6) Room B

**Chairs:** María Julia Cambiasso and Marcela Brocco

4. **Antonela Bonafina (IBCN-CONICET-UBA):** New players in cortical development: role of GDNF/GFR $\alpha$ 1.
5. **Sandra Zárate (Arg):** Sex hormone effects in brain mitochondria: at the crossroads of neuroprotection and aging.
6. **María Florencia Rossetti (ISAL-CONICET-UNL):** Tell me the way you live, I will tell the way you are: The impact of sensory and motor stimulation on the epigenetic control of steroidogenic-related genes in the rat hippocampus.

**THURSDAY 25<sup>th</sup> - 14:30 - 15:30** (YIL 7-10) Room B

**Chairs:** Daniel Calvo and Jeremías Corradi

7. **Marcelo Javier Moglie (INGEBI-CONICET):** Compartmentalization of antagonistic Ca<sup>2+</sup> signals in developing cochlear hair cells.
8. **Matias Goldin (UNIC - CNRS):** Revealing expectancy signals in the barrel cortex using repetitive spatiotemporal multi-whisker stimulations.
9. **Jorge Mario Andreau (IBYME-CONICET):** ERP correlates of recognition semantic memory after active versus passive memory retrieval.
10. **Natalia Capriotti (UNL):** Neuroendocrine regulation of postprandial diuresis in *Rhodnius prolixus*.

## ORAL COMMUNICATIONS

**THURSDAY 25<sup>th</sup> - 14:30 - 15:30** (OC 1-6) Room C

**Chairs:** Eugenia Pedreira and Gastón Calfa

**Cognition, Behavior, and Memory**

1. **Macarena Lorena Herrera (IFEC-CONICET-UNC):** Dopaminergic neurodegeneration and neuroinflammation: modulation by IGF-I gene therapy.
2. **Sofia Mariana Landi (Rockefeller University):** Familiar face recognition in the primate brain.
3. **Laura Alethia de la Fuente (LPEN-INCyT):** Interoceptive associations in addiction to smoked cocaine.
4. **Daniela Salas (IBCN-CONICET-UBA):** Memory deficits in Transgenic McGill-R-Thy1-APP hemizygous rats.
5. **Magdalena Miranda (INCyT):** The interplay between behavioral pattern completion and pattern separation for retrieval in a cue-degraded context.
6. **Jaqueline Maisa Franzen (University of Santa Catarina):** Dissociating reconsolidation and extinction of contextual aversive memory in female rats using midazolam treatment and reinstatement paradigm: influence of reactivation time span.

**FRIDAY 26<sup>th</sup> - 14:30 - 15:30** (OC 7-10) Room B

**Chairs:** Estela Muñoz and Pablo Barcelona

**Neural Circuit Physiology**

7. **Ayelen Ivana Groisman (FIL):** Temporal mapping of adult-born granule cells integration in two major local inhibitory populations of the hippocampus.

**Neurochemistry and Neuropharmacology**

8. **Federico Zamberlan (COCUCO - IFIBA):** The varieties of the psychedelic experience: association between reported subjective effects, binding affinity profiles and molecular structures of eighteen psychoactive compounds.

**Neuroendocrinology and Neuroimmunology**

9. **Marcos Aranda (CEFyBO- UBA-CONICET):** Leukocytes as key players in optic nerve neuroinflammation.

**Cellular and Molecular Neurobiology**

10. **Maximiliano Nicolas Rios (CIQUIBIC-CONICET-UNC):** Light-regulation of arylalkylamine N-acyltransferase and a new potential role in vertebrate retina.

**FRIDAY 26<sup>th</sup> - 14:30 - 15:30** (OC 11-14) Room C

**Chairs:** Alicia Degano and Flavia Bollati

**Cellular and Molecular Neurobiology**

11. **Ana Paula De Vincenti (IBCN-CONICET-UBA):** Lrig2 promotes dendritic complexity, spine morphogenesis, and excitatory synapse formation in hippocampal neurons.
12. **Lucía Rodríguez (CIQUIBIC-CONICET-UNC):** Role of cytoplasmic c-Fos as an activator of lipid synthesis during neuronal differentiation.
13. **Julia Florentyna Bustos (CIQUIBIC-CONICET-UNC):** Differences on the effect of proteins of the same tethering complex on neuronal polarity.
14. **Nonthué Uccelli (IBCN-CONICET-UBA):** Inter-hemispheric hypo-connectivity and regional metabolic hyper-activity in an experimental model of autism.

## POSTER SESSIONS

**SESSION 1 – WEDNESDAY 24<sup>th</sup> – 17:30 – 19:30**

**ODD NUMBERS**

Cellular & Molecular Neurobiology  
Cognition, Behavior & Memory

**SESSION 2 – THURSDAY 25<sup>th</sup> – 18:00 – 20:00**

**Brain Awareness week activities**

Computational Neuroscience  
Motor System, Synaptic Transmission & Excitability

**ODD NUMBERS**

Chronobiology  
Neural Circuit & Physiology  
Neurochemistry & Neuropharmacology  
Neuroendocrinology & neuropharmacology  
Sensory System

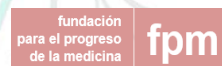
**EVEN NUMBERS**

Cognition, Behavior & Memory

**SESSION 3 – FRIDAY 26<sup>th</sup> – 17:30 – 20:30**

**EVEN NUMBERS**

Cellular & Molecular Neurobiology,  
Chronobiology, Neural Circuit  
Physiology, Neurochemistry & Neuropharmacology  
Neuroendocrinology & Neuroimmunology  
Sensory System.



# XXXIII Annual Meeting of the Argentine Society for Research in Neuroscience

# Short Program

**October 24 – 26, 2018**  
**Pabellón Argentina**  
**Universidad Nacional de Córdoba**  
**Córdoba - Argentina**

**8:30 – 10:30: SYMPOSIUM I: *Neurobiology of drug addiction.*** Room A

- **Verónica Alvarez (USA):** Dissecting the roles of dopamine D2 receptors in the basal ganglia and motivated behaviors.
- **Bruno Averbeck (USA):** Neural systems underlying reinforcement learning.
- **Martin Cadore (France):** Opiate withdrawal memories: Behavior and neural network.
- **Peter Kalivas (USA):** Using the Neurobiology of Willpower to Treat Drug Addiction.

**Chairs:** Liliana Cancela and Marcelo Rubinstein

**10:30 – 11:00: COFFEE BREAK**

**11:00 – 12:00: OPENING LECTURE: *Tubulin tyrosination-detyrosination cycle: key role in neuronal functions.*** Room A

- **Prof. Annie Andrieux**

**Chair:** Marta E. Hallak

**12:30: LUNCH WITH ACTIVITIES**

ARG Scientific Financial Support

Room C

- **Dr. Fernando Stefani**

**14:30 – 15:30: YOUNG INVESTIGATOR LECTURES**

- YIL 1 -3.
- YIL 4 -6.

Room A

Room B

**15:30 – 17:30: SYMPOSIUM II: *Emerging mechanisms in neuronal signaling from cell biology to pathogenesis.*** Room A

- **Beatriz Caputto (Arg):** *c-Fos*, a moonlighting protein: what we know about its lipid activator capacity in the nervous system.
- **Claudia Banchio (Arg):** Specific phospholipids regulate the acquisition of neuronal and astroglial identities in post-mitotic cells.
- **Lisandro Falomir Lockhart (Arg):** Fatty acids participation in neuronal differentiation of SH-SY5Y cells.
- **Elena Posse de Chavez (Canada):** Role of isoprenoids in autophagy and prion-like spread of Amyloid beta pathology.

**Chairs:** Gabriela Salvador and Mauricio Martin

**SYMPOSIUM III: *Chronic pain: basic research and translational perspectives.*** Room B

- **Cristian Acosta (Arg):** Role of 2-pore domain potassium channels in spontaneous pathological pain.
- **Luis Constandil Córdova (Chile):** Role of pannexin 1 in the chronic pain: a preclinical study.
- **Pablo R. Brumovsky (Arg):** IMT504 for the treatment of chronic pain: Preclinical observations and translational perspective.
- **Florencia Coronel (Arg):** Neuroactive steroids and central neuropathic pain

**Chair:** Susana González

**17:30: COFFEE BREAK**

**17:30 – 19:30: POSTER SESSION** Hall Pabellón Argentina

**19:30 – 20:30: RANWEL CAPUTTO LECTURE: *Visual cortical dynamics.*** Room A

- **Prof. Charles Gilbert**

**Chair:** Mario E. Guido

**20:45: WELCOME PARTY** Hall Pabellón Argentina

**8:30 – 10:30: SYMPOSIUM IV: *Oligodendrocytes: its role in myelination and remyelination.*** Room A

- **Wendy Macklin (USA):** Signaling mechanisms regulating CNS myelination.
- **Leda Dimou (Germany):** NG2-glia: old friends or new strangers? Implications and roles in the adult.
- **Jorge Correale (Arg):** The dialogue between oligodendrocytes and axons in the process of neurodegeneration and neuroprotection.
- **Juana Pasquini (Arg):** Experimental demyelination models: effects of apotransferrin administration.

**Chairs:** Juana Pasquini and Jorge Correale

**10:30 – 11:00: PLENARY LECTURE: *Retinal degenerations: The isoprenoid connection.*** Room A

- **Prof. Dr. Steven J. Fliesler**

**Chair:** Nora Rotstein

**12:15: LUNCH WITH ACTIVITIES**

Group photo.

IBRO-ISN-FALAN Round Table.

Room C

**14:30 – 15:30: YOUNG INVESTIGATOR LECTURES**

- YIL 7- 10

Room B

**ORAL COMMUNICATIONS**

*Cognition, Behavior and Memory*

OC 1 - 6

Room C

**16:00 – 18:00: SYMPOSIUM V: *Move on! Neural circuits underlying sensorimotor transformations*** Room A

- **Martyn Goulding (USA):** Spinal circuits for somatosensation and movement.
- **Soledad Espósito (Swiss):** Brainstem circuits for the control of locomotion.
- **Lidia Szczupak (Arg):** Neuronal networks for motor control
- **John Tuthill (USA):** Neural mechanisms of leg proprioception and motor control in *Drosophila*.

**Chairs:** Violeta Medan and Martín Carbó Tano

**SYMPOSIUM VI: *Astroglial heterogeneity: an opportunity for neuroprotection and regeneration?*** Room B

- **Luis Barbeito (Uru):** Cellular targets of tyrosine kinase inhibitors in Amyotrophic Lateral Sclerosis.
- **Flávia CA Gomes (Bra):** Astrocyte heterogeneity: Implications for synapse function and neurodegenerative diseases.
- **Alberto Javier Ramos (Arg):** Astrocytes as active players of the innate immune system: Another layer of astroglial heterogeneity?
- **Elaine Del-Bel (Bra):** Are neuroinflammation and astrocytes key elements in L-DOPA-induced dyskinesia in Parkinson's disease?

**Chair:** Elaine Del-Bel

**18:00: COFFEE BREAK**

**18:00 – 20:00: POSTER SESSION** Hall Pabellón Argentina

**19:30: Reunión RAN (Red Argentina en Neurociencias)** Room A

**20:00: SAN General Assembly** Room C

**ROOM A: SALA DE LAS AMÉRICAS**

**ROOM B: SALÓN DE ACTOS**

**ROOM C: BASEMENT (SUBSUELO PABELLÓN)**

**8:30 – 10:30: SYMPOSIUM VII: *Synaptic drive and neuromodulatory circuits in cognitive and emotional.*** Room A

- **Manuel Mameli (Swiss):** Experience-dependent synaptic plasticity in the lateral habenula.
- **Sadegh Nabavi (Denmark):** Synaptic tagging and capture: From synapses to behavior.
- **Sebastian P. Fernandez (France):** Cholinergic mechanisms shaping VTA dopaminergic mal-adaptations to stress and nicotine.
- **Mariano Soiza-Reilly (Arg):** Prefrontal serotonin transporter shapes corticoraphe circuits and long-term emotional deficits of early-life exposure to SSRIs.

**Chairs:** Mariano Soiza-Reilly and Joaquín Piriz

**10:30 – 11:00: COFFEE BREAK**

**11:00 – 13:00: SYMPOSIUM VIII: *Cell strategies in degenerative and regenerative processes of the nervous system.*** Room A

- **Patricia Setton (Arg):** Multipotent cells as mediators of peripheral nerve regeneration.
- **Debora Stenkamp (USA):** Restoring the connectomes of regenerated retinal bipolar neurons following a tissue-disrupting retinal lesion in adult zebrafish.
- **Valeria Canto Soler (USA):** 3D Retinal organoids: new frontiers for stem cell-based clinical applications.

**Chair:** Luis E Politi

**13:00: LUNCH WITH ACTIVITIES**

**14:30 – 15:30: ORAL COMMUNICATIONS**

*Neural Circuit Physiology.*

OC 7 - 10

Room B

*Neurochemistry and Neuropharmacology.*

*Neuroendocrinology and Neuroimmunology.*

*Cellular and Molecular Neurobiology.*

*Cellular and Molecular Neurobiology*

OC 11 - 14

Room C

**15:30 – 17:30: SYMPOSIUM IX: *Cellular and molecular mechanisms in retina degeneration.*** Room A

- **Thomas Cotter (Ireland):** Neuroprotection of photoreceptors as a therapeutic strategy in retinal degeneration.
- **Cecilia Sánchez (Arg):** Vascular and non-vascular alterations in retinopathies: towards a change in the therapeutic strategy.
- **Patricia Becerra (USA):** Molecular mechanisms of PEDF peptides in retinal degenerations.

**Chairs:** Nora Rotstein and Cecilia Sánchez

**SYMPOSIUM X: *Epilepsy from bench to the patients.*** Room B

- **Alberto Lazarowski (Arg):** Progressive P-glycoprotein overexpression and its relationship with SUDEP.
- **Luisa Rocha Arrieta (Mex):** Epigenetic changes induced by antiepileptic drugs and their relevance in epilepsy.
- **Antoni Camins (Spain):** Kainic acid as a preclinical experimental model for the study of new molecules for the treatment of epilepsy and neurodegenerative diseases.
- **Silvia Kochen (Arg):** Identification of epileptogenicity markers from the register of individual neurons in patients candidates to epilepsy surgery.

**Chairs:** Jeremías Auzmendi and Alberto Lazarowski

**17:30: COFFEE BREAK**

**17:30 – 19:30: POSTER SESSION** Hall Pabellón Argentina

**19:30 – 20:30: CLOSING LECTURE - Eduardo De Robertis Lecture: *Unraveling a novel NGF metabolic pathway and its deregulation in Alzheimer's pathology.*** Room A

- **Prof. Claudio Cuello**

**Chair:** Diana Jerusalinsky

**20:30: CLOSING CEREMONY**

Room A

**21:30: CLOSING PARTY**

Patio de las palmeras