XXIX ANNUAL MEETING

and

SAN-ISN Small Conference and course “New mechanisms of neuro-glial interaction: Their contribution to nervous system development and repair”

September 29-October 3, 2014
Huerta Grande, Córdoba, Argentina
Dear SAN members, friends and colleagues:

On behalf of the 2014 organizing committee and the SAN Board of Directors, it is my great pleasure to welcome you all to our XXIX Annual Meeting and to the SAN-ISN special small conference. As in previous years, Huerta Grande, Córdoba, is the place where we will gather. This retreat in the middle of the hills gives the unique opportunity to host us all in one place and provides the right atmosphere for scientific discussions.

With an increasing ageing population, neuroscience is a strategic area of research in the 21st century. Although far from the large-scale investments such as the USA BRAIN Initiative or the European Human Brain projects, the Argentinean neuroscience community continues to grow and SAN has now near 500 members. This mainly derives from the personal effort of each one of our members who, through a strong passion for their work, set free will to their imagination and explore new horizons, even with limited resources. The excellence of Argentinean neuroscience is reflected by the increasing number of publications in high-profile journals and the prestigious awards received by SAN members in 2014, such as the L’ORÉAL Unesco For Women in Science for Latin America and recognitions from the Humboldt Foundation.

We at SAN are committed to aid in deciphering the complexity of the brain and the nervous system, promoting high quality science and encouraging translational research that will ultimately benefit society through a better understanding of neurological diseases. This can only be achieved by bringing together scientists with diverse scientific background and expertise, different nationalities and at different stages of their career. We hope that the XXIX Annual Meeting will fulfill this objective. Thank you all invited speakers for coming from far away to share your newest discoveries. Thank you all neuroscience students for your energy and refreshing and renovating ideas. Thank you SAN members for your continuing support to the society. And last, but not least, thank all sponsors that make our Annual Meetings a reality.

Enjoy the meeting, establish new collaborations, come up with innovative ideas, meet old friends and make new ones.

Ana Belén Elgoyhen
SAN President
Annual Meeting Sponsors
PROGRAM

SAN-ISN Small Conference and course
“New mechanisms of neuro-glial interaction: Their contribution to nervous system development and repair”

DAY 1: Monday September 29th

8:00-9:30 Registration
9:30-10:15 Welcome words by the SAN-ISN small conference and course organizers
Description of the general organization of the course and initial orientation for the students
Project writing workshop
10:15-10:45 Coffee break and post your poster
10:45-12:15 Lecture I: "Glia and the formation/plasticity of neural circuits"
Gabriel Corfas, Director, Kresge Hearing Research Institute, University of Michigan, USA
12:30-14:00 Lunch
14:30-16:00 Lecture II: "Astrocytes: key function in the balance between excitatory and inhibitory synaptic inputs"
Flavia Gomes, Universidade Federal do Rio de Janeiro, Brasil
16:00-17:30 Lecture III: "Characterization of astrocytes phenotypes modulating disease progression in inherited ALS"
Luis Barbeito, Institut Pasteur, Montevideo, Uruguay
17:30-18:30 Poster viewing I & refreshments
18:30-21:00 Group activity meeting I: Project writing workshop for students
21:30 Dinner

DAY 2: Tuesday September 30th

7:30-8:30 Breakfast
8:30-10:00 Lecture IV: “Tripartite synapse: new glial roles”
Vladimir Parpura, University of Alabama at Birmingham, USA
10:30-11:00 Coffee Break and poster viewing II
11.00-12:30 Lecture V: “Functional role of microglial cells in Parkinson’s Disease”
Fernando Pitossi, Instituto Leloir, Buenos Aires, Argentina
13:00-14:30  Lunch
14:30-16:30  Lecture VI: “The role of Schwann cells in degenerative and regenerative axonal programs”
Felipe Court, Pontificia Universidad Católica de Chile, Santiago, Chile
16:30-17:00  Coffee Break and poster viewing III
17:00-18:30  Group activity meeting II: Project writing workshop for students
18:30-20:30  Group activity meeting II: Project writing workshop, student’s presentations
20:30-21:30  Round table and final conclusions of the SAN-ISN small conference and course
21:30   Dinner

XXIX CONGRESO ANUAL DE LA
SOCIEDAD ARGENTINA DE INVESTIGACION EN NEUROCIENCIAS

DAY 1: Wednesday October 1st

09:00   Registration
10:00   Welcome by Organizers
10:10-12:30  Symposium I: “The Good and the Bad of Neurotrophins”
Chairs: Laura Montroull y Andrea Cragnolini, Instituto de Investigaciones Biológicas y Tecnológicas, Universidad Nacional de Córdoba, CONICET, Argentina
10:20-10:50  “p75 Neurotrophin Receptor Signaling Pathways in Health and Disease”
Philip Barker, McGill University, Montreal, Canada
10:50-11:20  "The multifaceted role of the p75 neurotrophin receptor in the brain"
Wilma Friedman, Rutgers University, USA
11:20-11:50  “Role of the endocytic system in BDNF-mediated dendritic branching”
Francisca Bronfman, Pontificia Universidad Católica de Chile, Santiago, Chile
11:50-12:20  “Endogenous BDNF/proBDNF level modification in neuronal death and survival”
Daniel Mascó, Universidad Nacional de Córdoba-CONICET, Córdoba, Argentina
12:30-14:00 Lunch

14:30-16:00 Short talks selected from poster abstracts (parallel sessions):
   **Room A** – Chair: **A. Javier Ramos.** Instituto de Biología Celular y Neurociencia (IBCN-CONICET), Universidad de Buenos Aires
   **Room B** – Chair: **Fernanda Ledda.** Instituto de Biología Celular y Neurociencia (IBCN-CONICET), Universidad de Buenos Aires

16:15-19:15 Poster Session I, Networking & Coffee break
   16:15-17:45 **EVEN NUMBER poster presentation**
   17:45-19:15 **ODD NUMBER poster presentation**

19:15-20:15 **Eduardo de Robertis Plenary Lecture**
   Chair: **Ana Belén Elgoyhen,** Instituto de Investigaciones en Ingeniería Genética y Biología Molecular, Dr Héctor N. Torres, Argentina
   “**Unexpected interactions in the basal ganglia**”
   **Bernardo Sabatini,** Neurobiology Department, Harvard Medical School, Howard Hughes Medical Institute, USA

20:15-20:45 **SAN Award to the Best Doctoral Thesis in Neuroscience 2014**
   Chair: **Juan Goutman,** Instituto de Investigaciones en Ingeniería Genética y Biología Molecular, Dr Héctor N. Torres, Argentina
   “**Stress-Induced Cocaine Sensitization: A Study of Glutamate Homeostasis and its Interaction with the Dopaminergic System in Nucleus Accumbens**”
   **Constanza García Keller,** Dpto de Farmacología, Facultad de Ciencias Químiccas, Universidad Nacional de Córdoba, Argentina

21:00-22:45 Dinner
   Dinner activity: eat with the big shots I!
   Students and postdocs can sign up to share the table with lecturers and symposia speakers

23:00 Asamblea Ordinaria SAN/ SFN Chapter

**DAY 2: Thursday October 2nd**

7:30-8:15 Breakfast

8:15-12:50 **SAN–ISN Symposium: “Deconstructing Adult Neurogenesis: From Neural Stem Cells to Neuronal Networks in Health and Disease”**
   Chair: **Alejandro Schinder,** Fundación Instituto Leloir, Buenos Aires
   8:15-9:00 “**A novel view of neurogenesis and memory encoding in the dentate gyrus**”
Alejandro Schinder, Laboratory of Neuronal Plasticity, Fundación Instituto Leloir, Buenos Aires

9:00-9:50 “Analysis of neural stem cells in the adult mammalian brain, one cell at a time”
Hongjun Song, Institute for Cell Engineering and Department of Neuroscience, Johns Hopkins University School of Medicine, Baltimore

9:50-10:40 "Brains in metamorphosis: physiological and forced neurogenesis in the adult brain"
Benedikt Berninger, Adult Neurogenesis & Cellular Reprogramming, Institute of Physiological Chemistry University Medical Center, Johannes Gutenberg University Mainz

10:40-11:10 Coffee Break

11:00-12:00 “Multifaceted approach to molecular psychiatry: a DISC1 story”
Guoli Ming, Institute for Cell Engineering and Department of Neuroscience, Johns Hopkins University School of Medicine, Baltimore

12:00-12:50 “From stem cells to cortical circuits”
Pierre Vanderhaeghen, Institute for Interdisciplinary Research and Institute of Neuroscience, Free University of Brussels

13:00-14:45 Lunch

15:00-17:30 Poster Session & Networking II & Coffee break
15:00-16:15 ODD NUMBER poster presentation
16:15-17:30 EVEN NUMBER poster presentation

17:30-19:00 IBRO Special Lectures
Chair: Marta Hallak, Centro de Investigaciones en Química Biológica de Córdoba, CONICET

17:30-18:00 "The Global Mission of IBRO, and IBRO 2015 in Rio de Janeiro"
Sten Grillner, IBRO Secretary-General, Karolinska Institute, Stockholm, Sweden

18:00-19:00 "The Blueprint of the Vertebrate Motor System – from Microcircuits to Selection of Behaviour"
Sten Grillner, IBRO Secretary-General, Karolinska Institute, Stockholm, Sweden

19:00-19:30 Coffee Break

19:30-21:00 Young Investigator Symposium
Chair: Tomás Falzone, CONICET, Universidad de Buenos Aires

19:30-19:50 “Impact of axonal, autoreceptor mediated, synaptic events on cerebellar interneuron's activity”
Javier Zorrilla de San Martin, Université Paris Descartes, France
19:50-20:10 “Caspase-3 and Calpains become active during (and play a role in) injury-induced axonal degeneration but are not inhibited during NAD+-mediated protection”
Nicolás Unsain, McGill University, Canada/Instituto de Investigacion Médica Mercedes y Martin Ferreyra, CONICET, Argentina

20:10-20:30 “Amyloid Precursor Protein Is an Autonomous Growth Cone Adhesion Molecule Engaged in Contact Guidance”
Lucas Sosa, University of Colorado School of Medicine, USA/Centro de Investigaciones en Química Biológica de Córdoba, CONICET, Argentina

20:30-20:50 “Neurogenin3 is a key regulator in serotonergic vs. glutamatergic neuronal cell fate”
Abel Carcagno, Fundación Instituto Leloir, Argentina

21:00 Dinner
Dinner activity: eat with the big shots II!

23:00 PARTY!!!!

DAY 3: Friday October 3rd

7:30-8:30 Breakfast

8:45-11:15 Symposium II: “Ion channels from development to behavior”
Chair: Nara Muraro, Fundación Instituto Leloir, Argentina

8:45-9:20 “Inhibitory aminergic signaling in C.elegans: characterization and in vivo manipulation” Diego Rayes, Instituto de Investigaciones Bioquímicas de Bahía Blanca, Bahía Blanca, Argentina

9:20-10:05 “How do Drosophila clock neurons fire up?”
Nara I. Muraro, Fundación Instituto Leloir, Argentina

10:05-10:40 “Pumilio-2 regulates translation of Nav1.6 to mediate homeostasis of membrane excitability”
Richard Baines, Faculty of Life Sciences, University of Manchester, UK

10:40-11:15 “Activity-dependent regulation of coordinated ion channel expression: from mRNA to network output”
David Schulz, Department of Biological Sciences, University of Missouri, USA

11:15-11:45 Coffee break

11:45-12:45 Ranwel Caputto Plenary Lecture
Chair: Arturo Romano, Instituto de Fisiología Biología Molecular y Neurociencias, Universidad de Buenos Aires
“Motor coordinates to study birdsong”
Gabriel Mindlin, Departamento de Física, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina

12:45  Closing remarks by organizers
13:00  Farewell Barbecue
16:00  Meeting adjourns