



Call for Abstracts

International Society for Neurochemistry
American Society for Neurochemistry



24th Biennial Joint Meeting

April 20 – 24, 2013 Cancun, Mexico

On-line Abstract Submissions: Aug 01 – Oct 15, 2012

www.ISN-ASNCancun2013.org

Join us for four days of symposia, colloquia and workshops designed to address the major themes of our Societies:

- To present the most recent scientific advances through cutting-edge technology on molecular, cellular, biochemical, and genetic mechanisms;
- To present advances that are key in understanding the mechanisms of physiology and pathophysiology of the Nervous System, mechanisms that elucidate diseases and design therapies for young and adult humans.

Travel Grants/Awards

Special efforts have been taken to encourage Young Investigator participation. ISN and ASN travel awards are available and funding has been requested through NINDS for additional travel funds.

Go to www.ISN-ASNCancun2013.org for eligibility and submission requirements.

Featured Plenary Speakers...



Dr. Hideyuki Okano
Brain Science Using
iPScell Technology
and Transgenic
Non-human Primates



Dr. Huda Y. Zoghbi
Disease Neurobiology:
Charting the Path
from Genes to
Therapies



Dr. Robin Franklin
Stem Cells and
Myelin Regeneration



Dr. Martin Cammarota
On Memory
Formation and
Expression



Dr. Nancy Yuk-Yu Ip
Understanding the
Molecular Basis of
Neural Plasticity





ISN Elected Officers:

Philip M. Beart, President
Alois Saria, Treasurer
Monica Carson, Secretary

Program Committee Chair:

Leszek Kaczmarek

Local Organizing Committee Chairs:

Adan Aguirre
Arturo Ortega



Saturday, April 20

12.30 – 19.00

Registration Desk Open

15.30 – 18.00

Symposia

S00 History of Neurochemistry
Co-Chairs: Frode Fonnum & George DeVries

18.15 – 19.15

Plenary Lecture PL1
Hideyuki Okano, MD, PhD
Brain Science Using iPScell
Technology and Transgenic
Non-human Primates

19.30 – 21.30

Welcome Reception

Sunday, April 21

07.30 – 18.00

Registration Desk Open

08.30
–
09.30

Plenary Lecture PL2
Huda Y. Zoghbi, MD
Disease Neurobiology: Charting the Path
from Genes to Therapies

09.30
–
10.00

Young ISN Lecturer YL01

10.00 – 10.30

Refreshment Break

Symposia

10.30
–
12.30

S01 Cellular & Molecular Approaches to
Study Autism Spectrum Disorders
Co-Chairs: C. Gottfried & M. Robinson Agramonte

S02 Mechanisms of Memory Enhancement
and Erasure
Co-Chairs: Mauro Costa-Mattoli & Satoshi Kida

S03 Mitochondrial Dysfunction and Therapy
Chair: Jameel Dennis

S04 Caffeine and Adenosine Receptors in
Neurological and Neuropsychiatric Disorders
Co-Chairs: Rodrigo Cunha & Francisco Ciruela

12.30 – 14.30

Lunch Provided
Poster Session I*

Symposia

14.30
–
16.30

S05 Cocaine-induced BDNF Plasticity in the
Developing and Mature Brain
Co-Chairs: G. Sadri-Vakili & F. Fumagalli

S06 Molecular and Neuronal Regulation of
Emotional Memory
Co-Chairs: Nobuhiko Kojima & Oliver Stork

S07 Mitochondrial Dynamics in
Neurodegenerative Diseases
Chair: Xiongwei Zhu

S08 Serotonin Receptors, Signaling,
and Physiology
Co-Chairs: P. Banerjee & M. M. Panicker

16.30 – 17.00

Refreshment Break

Workshops

17.00
–
19.00

W1 Function and Dysfunction in the
Nervous System: A Tribute to
Prof. Fernando Mello
Chair: Ricardo A. de Melo Reis

W2 Role of Nrf2 in Oxidative
Stress-induced Neurodegeneration
Chair: Abel Santamaria

W3 Advances in Neural Metabolism in Vivo
Chair: In-Young Choi

Young Investigator Colloquia YC01

Monday, April 22

07.30 – 18.00

Registration Desk Open

08.30
–
09.30

Plenary Lecture PL3
Robin Franklin, PhD
Stem Cells and Myelin Regeneration

09.30
–
10.00

Young ISN Lecturer YL02

10.00 – 10.30

Refreshment Break

Symposia

10.30
–
12.30

S09 Regulation of Myelination
and Remyelination
Co-Chairs: Kelly Monk & Seema Tiwari-Woodruff

S10 Regulation of Neural Circuit Formation
by Extracellular Cues
Co-Chairs: Michael Fox & Cagla Eroglu

S11 Adult Neurogenesis and
Neuropsychiatric Diseases
Chair: Francis Szele

S12 Novel Approaches to Reveal Brain
Structure and Function
Chair: Valentin Nägerl

12.30 – 14.30

Lunch Provided
Poster Session I*

Symposia

14.30
–
16.30

S13 Neuron-glia Interactions
and Myelination
Co-Chairs: Matthew Rasband & Elinor Peles

S14 Extracellular Factors in Neural
Stem/Progenitor Cell Biology
Chair: Holly Colognato

S15 ABC Transporters and
Central Nervous System Dysfunctions
Co-Chairs: Marina Guizzetti & Davide Trotti

S16 Strategies on Biomarkers to
Diagnose Alzheimer's Disease
Chair: Laura Morelli

16.30 – 17.00

Refreshment Break

Workshops

17.00
–
19.00

W4 Animal Models of Human Disorders
with Normal and Abnormal
Neuroglial Interaction
Co-Chairs: Araceli Espinosa-Jeffrey & K. Ikenaka

W5 An Editors' Guide to Journal Publishing
Chair: Shamus O'Reilly

W6 Base Excision DNA Repair, Brain Aging
& Neurodegenerative Diseases
Chair: George M. Martin

Young Investigator Colloquia YC02

Tuesday, April 23

07.30 – 18.00

Registration Desk Open

08.30
–
09.30

Plenary Lecture PL4
Martin Cammarota, PhD
On Memory Formation and Expression

09.30
–
10.00

ASN Marian Kies Lecture YL03
Sandeep Singh, PhD
How Do Astrocyte Secreted Proteins Hevin
and SPARC Control CNS Synaptogenesis?

10.00 – 10.30

Refreshment Break

Symposia

10.30
–
12.30

S17 Novel Mechanisms of Memory
Co-Chairs: Karl Peter Giese & Kasia Radwanska

S18 Metabotropic Glutamate Receptors
as Promising Pharmacological Targets
for Treating Diverse Human
Nervous System Disorders
Co-Chairs: Joseph Neale & Jean-Philippe Pin

S19 Glial and Neuronal Control of
Brain Energy Metabolism
Chair: Martin Lauritzen

S20 Regulators of Neuronal Microtubules
in Development and Disease
Chair: Peter Baas

12.30 – 14.30

Lunch Provided
Poster Session II*

Symposia

14.30
–
16.30

S21 Neuronal Plasticity Under
Learning Challenge
Chair: Martine Ammassari Teule

S22 From Optogenetics to MicroRNA
Revelations in Cholinergic Signaling
Co-Chairs: Jose Diaz Bargas & Hermona Soreq

S23 Presynaptic Active Zone Assembly
and Function
Chair: Nils Brose

S24 Cellular & Molecular Mechanisms
Contributing Polarity & Function of
Neuronal Cells
Co-Chairs: C. Gonzalez-Billault & K. Kaibuchi

16.30 – 17.00

Refreshment Break

Workshops

17.00
–
19.00

W7 Glia-neuron Signaling:
From Gliotransmission to Neurochemistry
Chair: Jean-Pierre Mothet

W8 Energy Metabolism, Synaptic Function
and Neuronal Excitability
Chair: Bregastovski Piotr

Young Investigator Colloquia YC03

Wednesday, April 24

07.30 – 18.00

Registration Desk Open

08.30
–
09.30

Plenary Lecture PL5
Nancy Yuk-Yu Ip, PhD
Understanding the Molecular Basis of
Neural Plasticity

Symposia

10.00
–
12.00

S25 The Role of PUFAs in Injured and
Unhealthy Brains
Chair: Jeffrey T. Cole

S26 Metals in Neurodegeneration:
Therapeutic Opportunities
Chair: Kevin Barnham

S27 Protein Kinases and Pathogenesis in
Neurodegenerative Diseases
Co-Chairs: Scott Brady & George Siegel

S28 Unexpected Roles for Immune
Signaling in the Healthy and Diseased Brain
Co-Chairs: Jessy Alexander & Beth Stevens

12.00 – 13.30

Lunch Provided
Poster Session II*

Symposia

13.30
–
15.30

S29 Multi-mode Actions of
Botanical Polyphenols Against
Neurodegenerative Diseases
Co-Chairs: Grace Sun & Zezong Gu

S30 Stem Cells and Biomaterials for the
Treatment of Spinal Cord Injury
Co-Chairs: Eva Sykova & Jeffery Kocsis

S31 Synaptic Scaffold Proteins in Normal
and Pathological Behavior
Chair: Chiara Verpelli

S32 The Neurovascular Unit and Immune
Cell Trafficking in the CNS
Chair: James Waschek

15.30 – 16.00

Refreshment Break

Symposia

16.00
–
18.00

S33 Diverse Pathways for Pathological
Glutamate Release in the CNS
Co-Chairs: Alex Mongin & Sandra Hewett

S34 Phagocytic Roles of Glia in
CNS Physiology and Pathology
Chair: Jonathan Kipnis (Jordi Folch-Pi)

S35 Determining Axonal Laterality in the
CNS: New Views Emerging from an Old Topic
Co-Chairs: Eloisa Herrera & Carol Mason

S36 Diabetes and the Brain
Chair: Susan Vannucci

19.30
–
23.30

Farewell Fiesta
Dancing, Dinner and Show Included

ISN Satellite Meetings

Understanding Glial Cell Functions in the Normal and Injured CNS

17-19 April 2013
Merida, Mexico
Co-Chairs

Bernardo Castellano
Agustina García
Arturo Ortega

The Brain in Flux: Genetic, Physiologic, and Therapeutic Perspectives on Transporters in the Nervous System

25-28 April 2013
Yucatan, Mexico
Co-Chairs

Michael B. Robinson
Randy Blakely
Arturo Ortega

Myelin: From Basic to Translational Research

16-19 April 2013
Cancun, Mexico
Co-Chairs

Ernesto R. Bongarzone
Margot Mayer-Proschel

Emerging Topics in Synapse Function: Molecular Mechanisms, Circuit Function and Disease

25-28 April 2013
Playa del Carmen, Mexico
Co-Chairs

Gavin Rumbaugh
Kozo Kaibuchi

Unveiling the Significance of Lipid Signaling in Neurodegen- eration and Neuroprotection

17-19 April 2013
Cancun, Mexico
Co-Chairs

Grace Y. Sun
W. Gibson Wood



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*Posters will remain up for (2) days



American Society for
Neurochemistry
9037 Ron Den Lane
Windermere, FL 34786



ISN
International Society
for Neurochemistry

ISN Administrative Office
c/o Kenes International
1-3 Rue de Chantepoulet
1211 Geneva, Switzerland



Join Us In Cancun, Mexico April 20 – 24, 2013

ISN-ASN 2013 Program Committee

