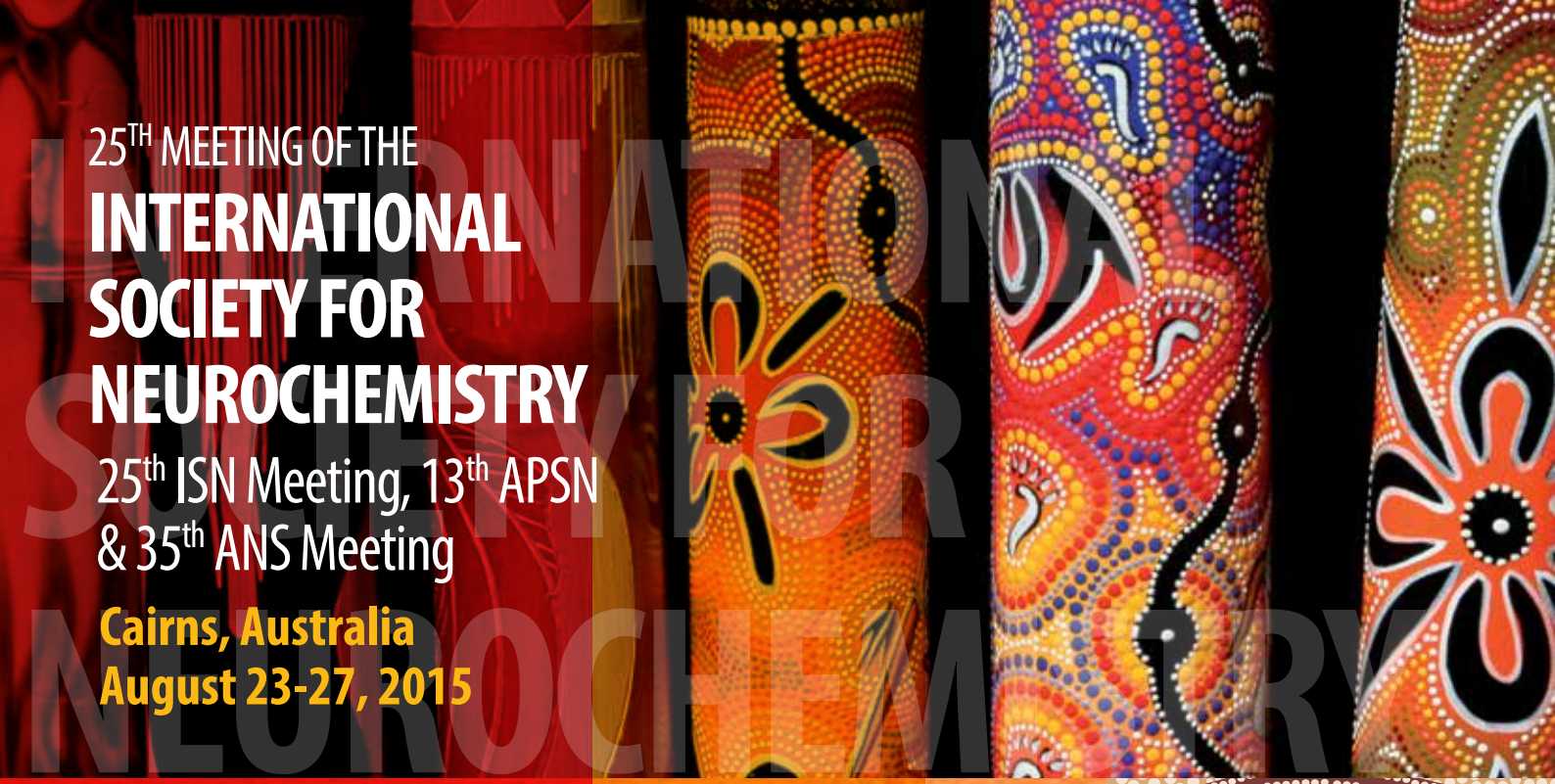

25TH MEETING OF THE

INTERNATIONAL SOCIETY FOR NEUROCHEMISTRY

25th ISN Meeting, 13th APSN & 35th ANS Meeting

Cairns, Australia
August 23-27, 2015

FINAL PROGRAM BOOK

www.neurochemistry.org

Organized by:

ISN International Society for Neurochemistry

Jointly with:

Asian-Pacific Society for Neurochemistry

Australasian Neuroscience Society Incorporated

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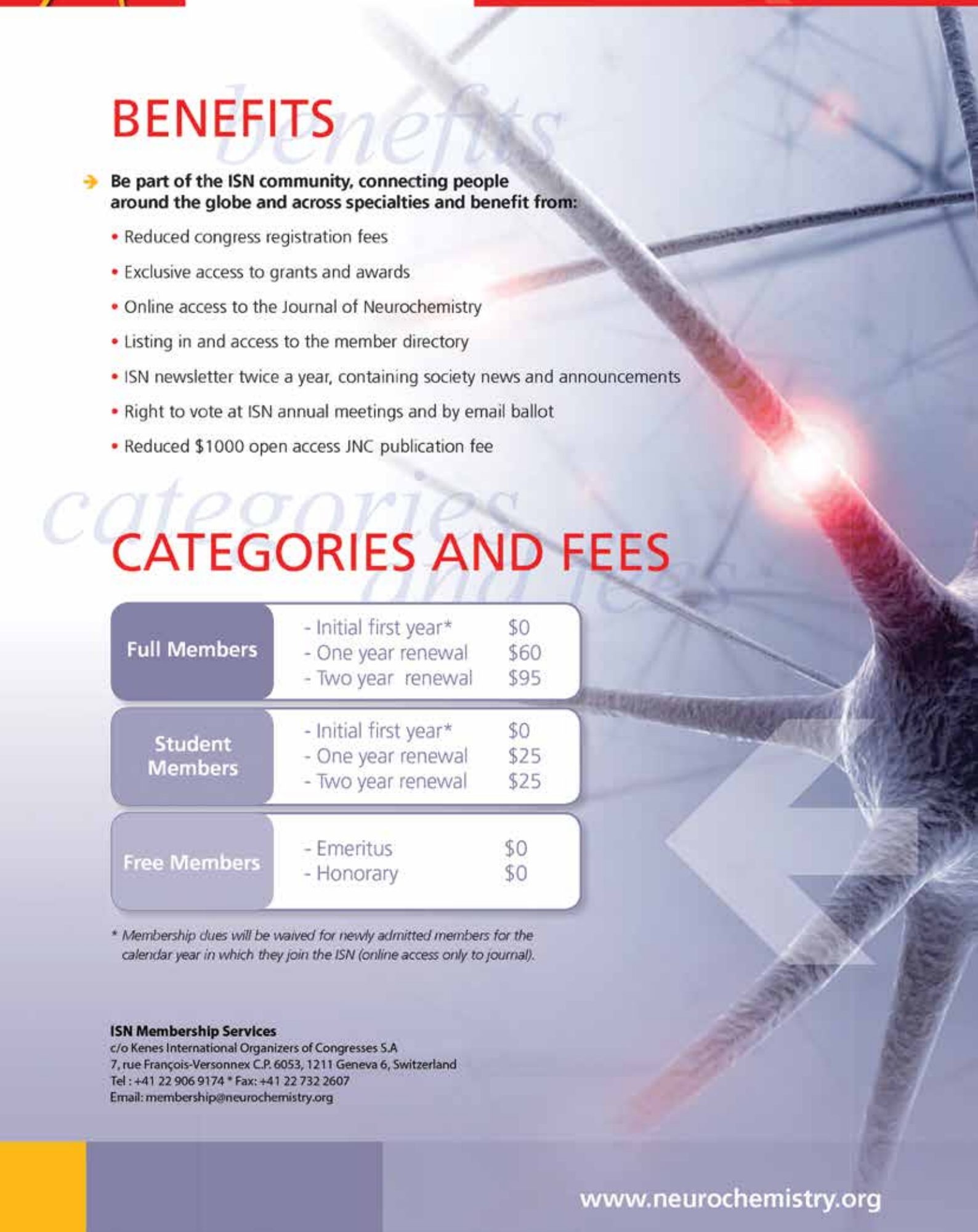
ISN
International Society for Neurochemistry



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Be part of the ISN community, connecting people around the globe and across specialties and benefit from:

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MESSAGE FROM ISN PRESIDENT

Dear Colleagues,

It is my pleasure to welcome you on behalf of the International Society for Neurochemistry at Cairns, Australia for the 25th Biennial Meeting jointly with the Asian-Pacific Society for Neurochemistry and in conjunction with the 35th Meeting of the Australasian Neuroscience Society. While the ISN Biennial Meeting is the most important showcase of the society's programs and activities every two years, this time it is also the start of the 2015-2017 campaign for celebrating the 50th anniversary of ISN "from conception to birth" and therefore a very special moment for the society.

I am delighted that this meeting provides not only an outstanding scientific program but is also complemented by additional activities of the Australasian Neuroscience Society such as the Eccles lecture open to the public or the International Brain Bee championship 2015 which is hosted by Australia this year. Such activities can be regarded as outreach activities most important for dissemination of knowledge about the brain and the nervous system to the public for raising awareness to the value of brain research.

I hope that the large attendance of both Australasian colleagues and delegates from around the world will catalyze intensive networking and exchange of knowledge for mutual benefit of members of all three scientific societies involved. ISN has invested significant funds to achieve this goal by subsidizing the attendance of a number of distinguished international scientists, several satellite meetings and a large number of international young scientists or international participants of the Brain Bee championship who would otherwise not be able to defray the costs for attending this meeting. ISN is, however, also grateful to the Queensland government who provided an additional financial contribution which helps us garnishing the scientific events with a number of social activities which should make your visit to Australia a memorable event.

I wish all of you a most successful meeting which may contribute to, and which you will be able to remember for further developing your research and your scientific career.

Alois Saria
President of the International Society for Neurochemistry

MESSAGE FROM PROGRAM COMMITTEE CHAIR

Dear Colleagues,

Thank you very much for your participation in the Biennial meeting of the International Society for Neurochemistry in Cairns, Australia this August 23-27, 2015. This meeting has garnered unprecedented interest throughout the world by serving not only as an outstanding venue to discover the most up to date scientific work, but by providing the opportunity to meet with colleagues from the Asian Pacific Society for Neurochemistry who are partnering with ISN and with the Australia Neuroscience Society, our Australian hosts as well as other ISN members from across the globe.

This year's program was chosen from among the largest number of symposium and young investigator applications received for an ISN meeting. Competition was fierce and we congratulate and thank all who participated in the process, including the Program Committee and the wonderful experts at the "behind the scenes" tasks. The outcome is a truly outstanding program that covers topics such as mitophagy and autophagy to synaptic plasticity and decision making to the mechanisms of neurodegenerative diseases.

I am particularly excited about our plenary speakers - Professor Ashley Bush, Professor Ellen Closs, Professor Franz-Ulrich Hartl, Professor Yoshinori Ohsumi and Professor Leslie Vosshall - who all have the highest standings in their respective fields. Their presentations will undoubtedly provide valuable insights and should not be missed.

With the addition of the spectacular local environment in Cairns, ISN Cairns 2015 will prove to be a scientifically enriching, stimulating and interactive meeting.

See you soon.

Carol A. Colton, Ph.D
Program Committee Chair

MESSAGE FROM LOCAL HOST COMMITTEE CHAIR

Dear Colleagues,

On the occasion of its 35th Annual Meeting, the Australasian Neuroscience Society is proud to host the 25th Biennial Meeting of the International Society for Neurochemistry and the 13th Meeting of the Asian Pacific Society for Neurochemistry.

On behalf of the Local Host Committee it is my great pleasure to welcome neuroscientists from all over the world who have come to the beautiful city of Cairns for this joint conference.

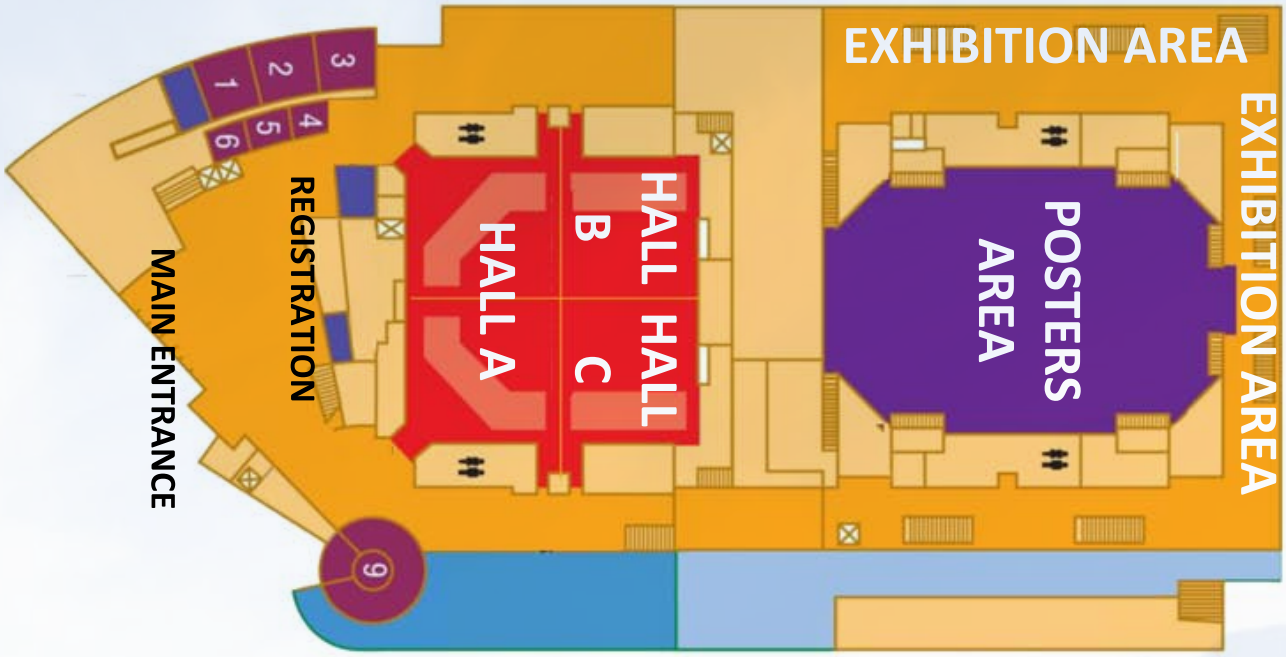
The Program Committee has assembled an exciting and varied scientific program that will provide attendees with opportunities to hear the latest developments in neuroscience from leading international researchers, engage in stimulating discussions, make new friendships and initiate new collaborations. In addition, there will be an opportunity to watch remarkable high school students from 23 countries compete in the Final of the International Brain Bee challenge.

I also hope that many of you will take the opportunity to enjoy the outstanding natural and cultural riches of the Great Barrier Reef and tropical rainforest close to Cairns or perhaps travel further afield to visit other parts of Australia.
I wish you all a memorable and enjoyable meeting.

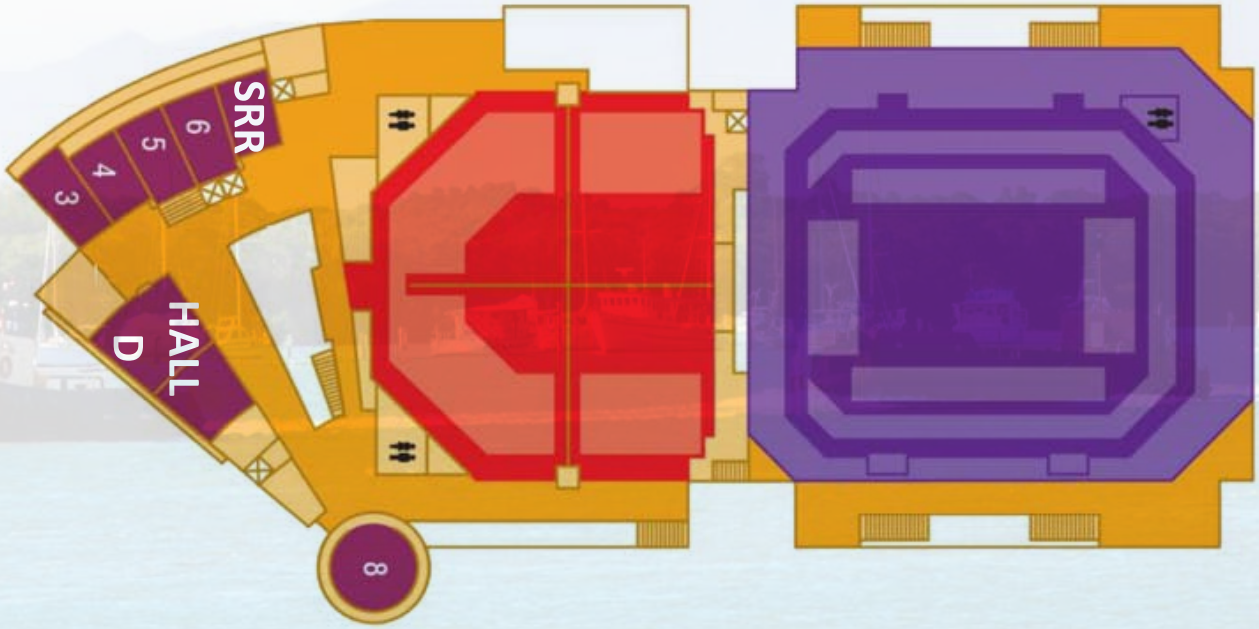
John Rostas
Chair, Local Host Committee

CONGRESS CENTER LAYOUT

GROUND FLOOR



MEZZANINE FLOOR



PROGRAM AT A GLANCE

Sunday 23 August, 2015	
	HALL A
15:30 17:30	**S01 History of Neurochemistry** *Chair: Graham Johnston* *Co-Chair: Philip Beart*
17:30 18:00	*Opening Ceremony*
18:00 18:15	*Mark Smith Awards presentation*
18:15 19:15	PL01 Plenary Lecture 1 Yoshinori Ohsumi - *Molecular Dissection of Autophagy - Intracellular Recycling System* *Welcome & Introduction: Carol Colton, Program Committee Chair ISN-APSN 2015*
19:30 21:30	**Welcome Reception** *at Cairns Convention Center, Terrace*

Legend:	Symposia	Young Scientist Lectureship	Focus Group
Plenary Lecture	Workshop	Young Investigator Colloquia	Social Program

PROGRAM AT A GLANCE

Monday 24 August, 2015

	HALL A	HALL B	HALL C	HALL D
08:30 09:30	PL02 Plenary Lecture 2 - Professor Franz-Ulrich Hartl *Molecular Chaperones: Guardians Of The Proteome*			
09:30 10:00	YSL01 Young Scientist Lectureship - Michael Fox *Extracellular Matrix Molecules Induce Inhibitory Synapse Formation*			
10:00 10:30	*Coffee Break / Poster Viewing / Exhibition Booths*			
10:30 12:30	**S02 GSK3 Signaling in Alzheimer's Disease Pathogenesis and Drug Development** *Chair: Weihong Song*	**S03 A Glial Spin on CNS Regeneration: Mechanisms that Regulate Oligodendrocyte Remyelination** *Chair: Trevor Kilpatrick* *Co-Chair: Junhua Xiao*	**S04 Autophagy and Mitophagy in Neurodegeneration: From Basic Mechanisms to prospects for Therapy** *Chair: Olga Corti* *Co-Chair: David Rubinsztein*	**S05 Harnessing Human Genetics to define the Biochemical Pathways involved in Brain Development** *Chair: Orly Reiner*
12:00 13.30	**Journal of Neurochemistry Editorial Board Luncheon (by invitation only)**			
12:30 14:30	*Lunch / Poster Session / Exhibition Booths*			
12:30 14:30	**International Brain Bee**			
14:30 16:30	**S06 Biological and Therapeutic Roles of Glycine Receptors** *Chair: Robert J. Harvey* *Co-Chair: Joseph W. Lynch*	**S07 Microglia-Vasculature Interactions as Determinants of Neurologic Diseases and Stroke** *Chair: Zena Vexler* *Co-Chair: Katerina Akassoglou*	**S08 Neuroimaging of Dense Core Vesicle Trafficking and Release** *Chair: Jens Rettig* *Co-Chair: Nils Brose*	**S09 Control of Cognition and Emotion at the Neuron-Matrix Interface** *Chair: Robert Pawlak* *Co-Chair: Yukiko Goda*
16:30 17:00	*Coffee Break / Poster Viewing / Exhibition Booths*			
17:00 19:00	**S39 Chronic Pain: Lessons From Animal Models To Human Studies** *Chair: Gila Moalem-Taylor* *Co-Chair: Ze'ev Seltzer*	**W02 Development of Animal Models, a permanent Challenge in Neurosciences** *Chair: Phanithi Prakash Babu Co-Chair: Laura Morelli*	**S10 Novel Mechanisms in Synaptic Plasticity** *Chair: Robert Malenka* *Co-Chair: Tomoaki Shirao*	**S11 The Impact of Nutrition and Gut Microbiota on Multiple Sclerosis and other Neurodegenerative Diseases: a Story yet to be written** *Chair: Paolo Riccio* *Co-Chair: Hartmut Wekerle*
20:00 22:00	**Journal of Neurochemistry Evening Social (by invitation only)**			

Legend:	Symposia	Young Scientist Lectureship	Focus Group
Plenary Lecture	Workshop	Young Investigator Colloquia	Social Program

PROGRAM AT A GLANCE

Tuesday 25 August, 2015

	HALL A	HALL B	HALL C	HALL D
08:30 09:30	PL03 Plenary Lecture 3 - Professor Ellen Closs *Why Transporters Of Simple Cationic Amino Acids Matter*			
09:30 10:00	YSL02 Young Scientist Lectureship - Jess Nithianantharajah *Evolution Of Synaptic Genes, Cognition And Disease Susceptibility*			
10:00 10:30	*Coffee Break / Poster Viewing / Exhibition Booths*			
10:30 12:30	**S12 Activity-Driven Epigenetic Mechanisms in the Brain** *Chair: Angel Barco* *Co-Chair: Tim Bredy*	**S13 New advances in Tau Regulation and Function** *Chair: Estelle Sontag* *Co-Chair: Juergen Goetz*	**S14 Emerging principles of astroglia-neuron networking** *Chair: Dmitri Rusakov* *Co-Chair: Stephane Oliet*	**S15 Neurochemistry of Decision Making & Reward-Seeking** *Chair: Andrew Lawrence*
12:30 14:30	*Lunch / Poster Session / Exhibition Booths*			
14:30 16:30	**S16 Synaptic defects in Intellectual Disability Syndromes and Autism** *Chair: Chiara Verpelli*	**W06 Brain Environment in Motor Neuron Degeneration and Injury** *Chair: Koji Yamanaka* *Co-Chair: Hiroshi Kiyama*	**S17 CNS Myelination: an Update on Novel Regulatory Mechanisms** *Chair: Babette Fuss* *Co-Chair: Maria Abbracchio*	**S18 Extracellular Vesicles: Their Role in Neuronal Signaling in Health and Disease** *Chair: Andrew Hill* *Co-Chair: Eva-Maria Alber*
16:30 17:00	Coffee Break / Poster Viewing / Exhibition Booths			
17:00 19:00	**S24 Neuroglia in Ageing and Neurodegeneration** **Chair: José J. Rodríguez Arellano** *Co-Chair: Flavia E. Saravia*	**W03 Challenge for Central Nervous System Regeneration: A Synergistic Approach Combining Neurobiology and Biomaterial Engineering** *Chair- Clare Parish* *Co-Chair- Itsuki Ajioka*	**W04 Microtubule-based therapy for Alzheimer's disease and other tauopathies** *Chair- Peter W. Baas* *Co-Chair- Eckhard Mandelkow*	**S19 Molecular Determinants of Homeostatic Plasticity in the Brain** **Chair: Constanze Seidenbecher** *Co-Chair: Renato Frischknecht*
19:15 20:00	**Eccles Lecture (ANS) – Dr. Vink** *Increased Intracranial pressure after Acute CNS Injury: a Basic Scientist's Perspective of a Clinical Problem*			
21:00 23:00	**ISN President's Reception (by invitation only)**			

Legend:	Symposia	Young Scientist Lectureship	Focus Group
Plenary Lecture	Workshop	Young Investigator Colloquia	Social Program

PROGRAM AT A GLANCE

Wednesday 26 August, 2015

	HALL A	HALL B	HALL C	HALL D
08:30 09:30	PL04 Plenary lecture 4 - Professor Leslie Vosshall *Understanding and modulating mosquito attraction to humans*			
09:30 10:00				**Focus Group 1**
10:00 10:30	*Coffee Break / Poster Viewing / Exhibition Booths*			
10:30 12:30	**S20 Microglia Plasticity - Molecular Characteristics of Different Phenotypes** *Chair: Bozena Kaminska* *Co-Chair: Mike Dragunow*	**S21 What do HCN Channels Teach us about Health and Disease?** *Chair: Christopher A. Reid* *Co-Chair: Nigel Jones*	**S22 Synaptic Cell Adhesion in Development and Plasticity** *Chair: Eckart Gundelfinger* *Co-Chair: Eunjoon Kim*	**S23 Lipids in Normal and Pathological Neuronal Function** *Chair: Vitale Nicolas*
12:30 14:30	*Lunch / Poster Session / Exhibition Booths*			
14:30 16:30	**W01 Neuroepigenetics: from Neural Development to Adult Neurogenesis** *Chair: Seiji Hitoshi* *Co-Chair: Richard Q. Lu*	**S25 Cellular and Molecular Approaches to Study Pathomechanisms of Familial PD** *Chair: Kirsten Harvey* *Co-Chair: Glenda Halliday*	**S26 What is Glycogen doing in the Brain? - Biochemistry, Physiology, Pathology** *Chair: Lasse K. Bak*	**S27 Temporal Evolution of Microglial Function and Phenotype in Ischemic Injury** *Chair: Ines Koerner* *Co-Chair: Jonathan Weinstein*
16:30 17:00	*Coffee Break / Poster Viewing / Exhibition Booths*			
17:00 19:00	**W05 How to publish a good paper? (Quality, Reproducibility and Impact)** *Chair: Jörg B. Schulz* *Co-Chair: Laura Hausmann*	**S28 Neuroinformatics Tools and Neurochemical Atlases for Global Neuroscience Collaboration** *Chair: Gary Egan* *Co-Chair: Jan Bjaalie*	**S29 Optogenetics and Optopharmacology to Illuminate the Brain** *Chair: Pau Gorostiza*	**S38 New roles of Neural Glycosaminogycans (GAGs) in Development, Plasticity, Regeneration and Disease** *Chair: Michihiro Igarashi* *Co-chair: Joris De Wit*
19:00 19:45	**Meet ISN Alumni**			
19:45 21:30	**ISN BUSINESS MEETING – active members only**		**The ANS AGM**	

Legend:	Symposia	Young Scientist Lectureship	Focus Group
Plenary Lecture	Workshop	Young Investigator Colloquia	Social Program

PROGRAM AT A GLANCE

Thursday 27 August, 2015

	HALL A	HALL B	HALL C	HALL D
08:30 10:00	**YIC01 Circuitry Plasticity and Development** *Chair: Mohanakumar Kochupurackal, ISN Council Member*	**YIC02 Mechanisms of glial function, including inflammation** *Chair: Andrew Lawrence, APSN President*	**YIC03 Behavior, Addiction, Psychobiology** *Chair: Prakash Babu*	**YIC04 Disease, Neurodegeneration, Therapy** *Chair: John Rostas, Local Host Committee Chair ISN-APSN 2015*
10:00 10:30	*Coffee Break / Poster Viewing / Exhibition Booths*			
10:30 12:30	**S30 Nucleotide Repeat Sequences in Neurodegeneration** *Chair: Anthony Hannan* *Co-Chair: Danny Hatters*	**S31 Non-coding RNAs: Important Regulators in the Nervous System** *Chair: Michaela Kress* *Co-Chair: Mark Landry*	**S32 Central Role of Glial Cells in the Pathogenesis of Schizophrenia** *Chair: Cyndi Shannon Weickert* *Co-Chair: Francesca Notarangelo*	**S33 The Endocannabinoid System and Brain Function: Problems and Possibilities** *Chair: Christopher Fowler peutics Development*
12:30 14:30	*Lunch / Poster Session / Exhibition Booths*			
14:30 16:30	**S34 From Mechanisms to Novel Therapeutic Targets in Combating Epileptogenesis and Epilepsy** *Chair: Christoph Schwarzer* *Co-Chair: Asla Pitkänen*	**S35 Molecular Mechanisms of Neurotransmission: Coupling Exocytosis and Compensatory Endocytosis** *Chair: Stephane Gasman*	**S36 Astrocyte Gliotransmission, Metabolism and Behavior** *Chair: Robert Zorec* *Co-Chair: Vladimir Parpura*	**S37 Long-distance Signaling in Control of the Transcriptomic and Proteomic Responses to Neuronal Injury** *Chair: Michael R. Kreutz* *Co-Chair: Elizabeth Coulson*
16:30 17:00				**Focus Group 2**
17:00 18:00	PL05 Plenary lecture 5 / Lawrie Austin Lecture - Professor Ashley Bush *Iron in Alzheimer's disease and Parkinson's disease*			
19:00 23:00	**Farewell Celebration in the Rainforest** *at RainforeStation Nature Park* *(RSVP required)*			

Legend:	Symposia	Young Scientist Lectureship	Focus Group
Plenary Lecture	Workshop	Young Investigator Colloquia	Social Program

MEETING PROGRAM / SUNDAY, AUGUST 23, 2015

Legend:	Symposia	Young Scientist Lectureship	Focus Group
Plenary Lecture	Workshop	Young Investigator Colloquia	Social Program

15:30 - 17:30 Hall A

S01 History of Neurochemistry
Session Chair: Graham Johnston, Australia
Session Co-Chair: Philip Beart, Australia

S01-01 Neurochemical activities 20 years before the establishment of ISN
Frode Fonnum - University of Oslo, Norway

S01-02 Roger Rossiter: much more than the first ISN president
Philip Beart - University of Melbourne, Australia

S01-03 The first ISN meeting in Australia and the formation of APSN
Graham Johnston - University of Sydney, Australia

S01-04 Traditional Medicine Partnerships for Cultural Preservation, Drug Discovery and Capability Strengthening
Joanne Jamie - Macquarie University, Australia

17:30 - 18:00 Hall A

Opening Ceremony

18:00 - 18:15 Hall A

Mark Smith Award
Presented by Jörg Schulz, JNC Editor-in-Chief

18:15 - 19:15 Hall A

PL01 Plenary Lecture
Molecular Dissection of Autophagy - Intracellular Recycling System
Professor Yoshinori Ohsumi - Tokyo Institute of Technology, Japan
Welcome & Introduction: Carol Colton, Program Chair ISN-APSN 2015

19:30 - 21:30 Cairns Convention Center, Terrace

Welcome Reception

MEETING PROGRAM / MONDAY, AUGUST 24, 2015

08:30 - 09:30 Hall A

PL02 Plenary Lecture
Molecular Chaperones: Guardians of the Proteome
Professor Franz-Ulrich Hartl, Max Planck Institute of Biochemistry, Germany
Welcome & Introduction: Alois Saria, ISN President

09:30 - 10:00 Hall A

YSL01 Young Scientist Lecture 1
Extracellular matrix molecules induce inhibitory synapse formation
Michael Fox - Virginia Tech Carilion Research Institute, USA
Welcome & Introduction: Alessandro Prinetti, ISN Council Member

10:00 - 10:30 Coffee Break / Poster Viewing / Exhibition Booths

10:30 - 12:30 Hall A

S02 GSK3 Signaling in Alzheimer's Disease Pathogenesis and Drug Development
Session Chair: Weihong Song, Canada

S02-01 The central role of GSK3β in AMPA receptor endocytosis/LTD and its implication in AD memory impairments
Yu Tian Wang - University of British Columbia, Canada

S02-02 Regulation of BACE1 expression and Amyloidogenesis
Robert Vassar - Northwestern University, USA

S02-03 Role of glycogen synthase kinase 3β in Alzheimer's neurodegeneration and the potential intervention
Jian-Zhi Wang - Key Laboratory of Ministry of Education of China for Neurological Disorders, China

S02-04 GSK3 signaling regulates APP processing and Aβ production and its pharmaceutical potential for Alzheimer's disease
Weihong Song - The University of British Columbia, Canada

MEETING PROGRAM / MONDAY, AUGUST 24, 2015

10:30 - 12:30 Hall B

S03 A Glial Spin on CNS Regeneration: Mechanisms that Regulate Oligodendrocyte Remyelination
Session Chair: Trevor Kilpatrick, Australia
Session Co-Chair: Junhua Xiao, Australia

S03-01 Multiple Roles of Fibroblast Growth Factor Receptor Signaling During Development, Myelination and Remyelination
Rashmi Bansal - Univ. of Conecticut Med Sch, USA

S03-02 BDNF exerts distinct influences upon neurons and oligodendrocytes to promote myelination
Junhua Xiao - University of Melbourne, Australia

S03-03 The role of OPC developmental heterogeneity in remyelination
Abbe Crawford - University of Cambridge, United Kingdom

S03-04 Topographic organisation of oligodendrocytes in CNS white matter - implications for myelin patterning
Tobias Merson - The Florey Institute of Neuroscience and Mental Health, Australia

10:30 - 12:30 Hall C

S04 Autophagy and Mitophagy in Neurodegeneration: From Basic Mechanisms to Prospects for Therapy
Session Chair: Olga Corti, France
Session Co-Chair: David Rubinsztein, United Kingdom

S04-01 Autophagy and neurodegeneration
David Rubinsztein - University of Cambridge, United Kingdom

S04-02 Mitophagy in Parkinson's disease: brakes and accelerators
Charleen T. Chu - University of Pittsburgh, USA

S04-03 Mitophagy: The roles of PINK1 and Parkin
Koji Yamano - Tokyo Metropolitan Institute of Medical Science, Japan

S04-04 Mechanisms of mitochondrial quality control in autosomal recessive Parkinson's disease
Olga Corti - Inserm U1127, France

MEETING PROGRAM / MONDAY, AUGUST 24, 2015

10:30 - 12:30 Hall D

S05 Harnessing Human Genetics to Define the Biochemical Pathways involved in Brain Development
Session Chair: Orly Reiner, Israel

S05-01 Studying copy-number variation in human neurological syndromes to identify a novel gene regulatory mechanism for brain development
Julian Heng - The Harry Perkins Institute of Medical Research, Australia

S05-02 Comprehensive approach to understand pathophysiological role of SIL1, a gene causing intellectual disability
Koh-ichi Nagata - Institute for Developmental Research Aichi Human Service Cen, Japan

S05-03 Unexpected Activities of the Complement Pathway In Migrating Neurons
Orly Reiner - Weizmann Institute of Science, Israel

S05-04 The Role of the Tubulin Gene Family In Development and Disease
David Keays - IMP, Austria

12:00 - 13.30 (by invitation only, Pullman Reef Casino & Hotel)

Journal of Neurochemistry Editorial Board Luncheon

12:30 - 14:30 Lunch / Poster Session / Exhibition Booths

12:30 - 14:30 Hall A

International Brain Bee
Open to all participants of the IBB Championship 2015:
Live Question and Answer Challenge (12:30 - 14:00) and Prize Ceremony (14:00 - 14:30)

14:30 - 16:30 Hall A

S06 Biological and Therapeutic Roles of Glycine Receptors
Session Chair: Robert J. Harvey, United Kingdom
Session Co-Chair: Joseph W. Lynch, Australia

S06-01 New biological roles for glycine receptors containing the α2 and α4 subunits
Robert J. Harvey - UCL School of Pharmacy, United Kingdom

S06-02 Plasticity of glycinergic synapses and related behaviors in zebrafish
Hiromi Hirata - Aoyama Gakuin University, Japan

S06-03 New small molecule analgesics that target the alpha3 glycine receptor
Joseph Lynch - University of Queensland, Australia

S06-04 GlyR mouse models and startle disease
Carmen Villmann - University of Wuerzburg, Germany

MEETING PROGRAM / MONDAY, AUGUST 24, 2015

14:30 - 16:30 Hall B

S07 Microglia-Vasculature Interactions as Determinants of Neurologic Diseases and Stroke
Session Chair: Zena Vexler, USA
Session Co-Chair: Katerina Akassoglou, USA

S07-01 Live imaging of innate immune response following ischemic injury: distinct microglia activation profiles in young and aged brains
Jasna Kriz - Laval University, Canada

S07-02 Microglial cells as protectants of neurovascular integrity in neonatal stroke
Zena Vexler - University California San Francisco, USA

S07-03 Neurovascular Interactions: Mechanisms, imaging, therapeutics
Katerina Akassoglou - Gladstone Institutes/UCSF, USA

S07-04 Cellular, subcellular and molecular in vivo imaging of the diseased nervous system
Martin Kerschensteiner - Ludwig-Maximilians University Munich, Germany

14:30 - 16:30 Hall C

S08 Neuroimaging of Dense Core Vesicle Trafficking and Release
Session Chair: Jens Rettig, Germany
Session Co-Chair: Nils Brose, Germany

S08-01 Quantifying DCV trafficking and release by combining TIRF microscopy and patch-clamp measurements in immune cells
Jens Rettig - Saarland University, Germany

S08-02 Molecular regulation of the fusion pore in neuroendocrine secretion
Corey Smith - Case Western Reserve University, USA

S08-03 Molecular mechanism of DCV maturation and exocytosis
Tao Xu - Institute of Biophysiscs - Chinese Academy of Science, China

S08-04 Trafficking and fusion of neuropeptide-containing dense core vesicles in mammalian CNS neurons
Matthijs Verhage - CNCR, Netherlands

MEETING PROGRAM / MONDAY, AUGUST 24, 2015

14:30 - 16:30 Hall D

S09 Control of Cognition and Emotion at the Neuron-Matrix Interface
Session Chair: Robert Pawlak, United Kingdom
Session Co-Chair: Yukiko Goda, Japan

S09-01 Regulation of anxiety by extracellular proteolysis in the amygdala
Robert Pawlak - University of Exeter Medical School, United Kingdom

S09-02 Matrix metalloproteinase 9: A focal point of synaptic plasticity in neuropsychiatric disorders
Leszek Kaczmarek - Nencki Institute, Poland

S09-03 Mechanisms of cognitive vulnerability to stress:Synapses, spine and a symphony of mediators
Tallie Z. Baram - University of California-Irvine, USA

S09-04 A role for integrins in controlling neural circuit activity
Yukiko Goda - RIKEN, Japan

16:30 - 17:00 Coffee Break / Poster Viewing / Exhibition Booths

17:00 - 19:00 Hall A

S39 Chronic Pain: Lessons from Animal Models to Human Studies
Session Chair: Gila Moalem-Taylor, Australia
Session Co-Chair: Ze'ev Seltzer, Canada

S39-01 Evolutionary genome analysis reveals novel pain genes and therapeutic targets
Greg Neely - Garvan Institute, Australia

S39-02 Neuroinflammation and cytokine dysregulation in neuropathic pain
Gila Moalem-Taylor - University of New South Wales, Australia

S39-03 The Pain Genome-Phenome Project: a translational murine-human approach
Ze'ev Seltzer - University of Toronto, Canada

S39-04 Central changes in individuals with chronic neuropathic pain
Luke Henderson - University of Sydney, Australia

MEETING PROGRAM / MONDAY, AUGUST 24, 2015

17:00 - 19:00 Hall B

W02 Development of Animal Models, a permanent Challenge in Neurosciences
Session Chair: Phanithi Prakash Babu, India
Session Co-Chair: Laura Morelli, Argentina

W02-01 Neuroprotection and Neuroregenerative therapy for Ischemic Stroke
Koji Abe - Okayama University, Japan

W02-02 Role of granzyme-B., a cytotoxic protease in the neuronal cell death after stroke
Phanithi Prakash Babu - University of Hyderabad, India

W02-03 Modeling Alzheimer's disease in transgenic animals
Laura Morelli - Fundacion Instituto Leloir, Argentina

W02-04 Gene environment interactions in animal models of schizophrenia
Maarten Van den Buuse - La Trobe University, Australia

17:00 - 19:00 Hall C

S10 Novel Mechanisms in Synaptic Plasticity
Session Chair: Robert Malenka, USA
Session Co-Chair: Tomoaki Shirao, Japan

S10-01 A Mobile Signaling Complex Regulates the Kinesin-Mediated Transport of Synaptic AMPARs
Andres Villu Maricq - University of Utah, USA

S10-02 Myosin II dependent loss of stable F-actin from dendritic spines by LTP induction
Tomoaki Shirao - Gunma University Graduate School of Medicine, Japan

S10-03 Porcupine controls stability and composition of hippocampal AMPA receptors
David Bredt - University of California, USA

S10-04 Molecular mechanisms of AMPA receptor delivery during LTP
Robert C. Malenka - Stanford University, USA

MEETING PROGRAM / MONDAY, AUGUST 24, 2015

17:00 - 19:00 Hall D

S11 The Impact of Nutrition and Gut Microbiota on Multiple Sclerosis and other Neurodegenerative Diseases: a Story yet to be Written
Session Chair: Paolo Riccio, Italy
Session Co-Chair: Hartmut Wekerle, Germany

S11-01 Nature plus Nurture: intestinal ignition of brain autoimmunity
Hartmut Wekerle - Max Planck Institute of Neurobiology, Germany

S11-02 Nutrition Facts in Multiple Sclerosis
Paolo Riccio - University of Basilicata, Italy

S11-03 The effects of vitamin D on T cells, the microbiota and immune mediated disease
Margherita Cantorna - Pennsylvania State University, USA

S11-04 The Gut -(CD39)- Brain Axis: role of the microbiota regulating inflammatory CNS demyelination
Javier Ochoa-Reparaz - Geisel School of Medicine, USA

20:00 - 22:00 (by invitation only)

Journal of Neurochemistry Evening Social

MEETING PROGRAM / TUESDAY, AUGUST 25, 2015

08:30 - 09:30 Hall A

PL03 Plenary Lecture: Why transporters of simple cationic amino acids matter
Professor Ellen Closs, University Medical Center of the Johannes Gutenberg University Mainz, Germany
Welcome & Introduction: Monica Carson, ISN Secretary

09:30 - 10:00 Hall A

YSL02 Young Scientist Lecture 2
Evolution of synaptic genes, cognition and disease susceptibility
Jess Nithianantharajah - Florey Institute of Neuroscience and Mental Health, Australia
Welcome & Introduction: Monica Carson, ISN Secretary

10:00 - 10:30 Coffee Break / Poster Viewing / Exhibition Booths

10:30 - 12:30 Hall A

S12 Activity-Driven Epigenetic Mechanisms in the Brain
Session Chair: Angel Barco, Spain
Session Co-Chair: Timothy Bredy, Australia

S12-01 Epitranscriptomic mechanisms of memory stability
Timothy Bredy - The University of Queensland, Australia

S12-02 Nucleosome remodeling: A key epigenetic mechanism underlying memory and intellectual disability disorders
Marcelo Wood - University of California Irvine, USA

S12-03 Targets of Histone Acetylation Important for Memory Storage
Ted Abel - University of Pennsylvania, USA

S12-04 Interplay between transcriptional and epigenetic mechanisms in activity-driven gene expression
Angel Barco - Instituto de Neurociencias (UMH-CSIC), Spain

MEETING PROGRAM / TUESDAY, AUGUST 25, 2015

10:30 - 12:30 Hall B

S13 New Advances in Tau Regulation and Function
Session Chair: Estelle Sontag, Australia
Session Co-Chair: Juergen Goetz

S13-01 New mechanisms regulating tau phosphorylation and splicing during post-embryonic development
Emmanuel Planel - Université Laval, Canada

S13-02 Post-synaptic functions of tau in Alzheimer's disease
Lars Ittner - UNSW, Australia

S13-03 Re-evaluation of physiological and pathological phosphorylation of tau in vitro to human brains
Shinichi Hisanaga - Tokyo Metropolitan University, Japan

S13-04 New insights into the regulation of tau by protein phosphatase 2A
Estelle Sontag - University of Newcastle, Australia

10:30 - 12:30 Hall C

S14 Emerging Principles of Astroglia-Neuron Networking
Session Chair: Dmitri Rusakov, United Kingdom
Session Co-Chair: Stephane Oliet, France

S14-01 Induction of epileptiform activity rapidly alters astrocyte morphology in vitro
Christian Henneberger - University of Bonn Medical School, Germany

S14-02 The astrocytic control of D-serine and adenosine during sleep/wake cycles
Philip Haydon - Tufts University School of Medicine, USA

S14-03 Surface trafficking of astroglial GLT-1 glutamate transporter
Stephane Oliet - Neurocentre Magendie, France

S14-04 Homeostatic plasticity in astrocyte-synapse relationships
Dmitri Rusakov - University College London, United Kingdom

MEETING PROGRAM / TUESDAY, AUGUST 25, 2015

10:30 - 12:30 Hall D

S15 Neurochemistry of Decision Making & Reward-Seeking
Session Chair: Andrew Lawrence, Australia

S15-01 The effect of reward-related cues on reward seeking
Bernard Balleine - University of Sydney, Australia

S15-02 Transient synaptic plasticity induced by drug cues is reversed by drug relapse
Sade Spencer - Medical University of South Carolin, USA

S15-03 Corticostriatal control of rewarded learning
Andrew Holmes - NIAAA, USA

S15-04 Targeting glucocorticoid receptors that promote resilience in the treatment of addiction
Selena Bartlett - Queensland University of Technology, Australia

12:30 - 14:30 Lunch / Poster Session / Exhibition Booths

14:30 - 16:30 Hall A

S16 Synaptic Defects in Intellectual Disability Syndromes and Autism
Session Chair: Chiara Verpelli, Italy

S16-01 The impact of pathogenic Syngap1 mutations on brain development
Gavin Rumbaugh - The Scripps Research Institute - Scripps Florida, USA

S16-02 Planar cell polarity proteins and their role in neurodevelopmental disorders
Nathalie Sans - INSERM, France

S16-03 Genes and synapses in autism
Thomas Bourgeron - Institut Pasteur, France

S16-04 Neuronal Dysfunctions Underlying Phelan–McDermid syndrome and their pharmacological rescue in mouse and iPS Cells
Chiara Verpelli - CNR Neuroscience Institute, Italy

MEETING PROGRAM / TUESDAY, AUGUST 25, 2015

14:30 - 16:30 Hall B

W06 Brain Environment in Motor Neuron Degeneration and Injury
Session Chair: Koji Yamanaka, Japan
Session Co-Chair: Hiroshi Kiyama, Japan

W06-01 Microglial-derived factors as contributors to ALS disease progression
Severine Boillee - INSERM, France

W06-02 The mitochondrial dynamics after neuronal injury
Sumiko Kiryu-Seo - Nagoya University, Japan

W06-03 The role of astrocyte-derived TGF-β in motor neuron disease
Koji Yamanaka - Nagoya University, Japan

W06-04 Role of oligodendroglial dysfunction in amyotrophic lateral sclerosis (ALS)
Ludo Van Den Bosch - KU Leuven & VIB, Belgium

14:30 - 16:30 Hall C

S17 CNS Myelination: an Update on Novel Regulatory Mechanisms
Session Chair: Babette Fuss, USA
Session Co-Chair: Maria Abbracchio, Italy

S17-01 White matter plasticity in response to functional activity
Douglas Fields - NIH, USA

S17-02 MYRF promotes myelination through both positive regulation of myelin genes and micro-RNA mediated repression of OPC genes
Ben Emery - Oregon Health and Science University, USA

S17-03 New mechanisms regulating myelination in the central nervous system: the role of GPR17 and of a novel micro-RNA
Maria Abbracchio - University of Milan, Italy

S17-04 Glutamate as a regulator of oligodendrocyte morphogenesis
Babette Fuss - Virginia Commonwealth University, USA

MEETING PROGRAM / TUESDAY, AUGUST 25, 2015

14:30 - 16:30 Hall D

S18 Extracellular Vesicles: Their Role in Neuronal Signalling in Health and Disease
Session Chair: Andrew Hill, Australia Session Co-Chair: Eva-Maria Alber, Germany

S18-01 Exosomes as a novel way for interneuronal communications
Rémy Sadoul - Inserm, France

S18-02 Pathogenic role of microglia-derived microvesicles in neuroinflammation and neurodegeneration
Claudia Verderio - CNR Institute of Neuroscience, Italy

S18-03 The role of extracellular vesicles in the spread of misfolded proteins associated with neurodegenerative diseases
Andrew F. Hill - La Trobe Institute for Molecular Science, Australia

S18-04 Signal-mediated transfer of exosomes from glia to neurons: 'Care packages' for neuronal support?
Eva-Maria Krämer-Albers - University of Mainz, Germany

16:30 - 17:00 Coffee Break / Poster Viewing / Exhibition Booths

17:00 - 19:00 Hall A

S24 Neuroglia in Ageing and Neurodegeneration
Session Chair: José Julio Rodríguez Arellano, Spain
Session Co-Chair: Flavia E. Saravia, Argentina

S24-01 Morphological and metabolical changes in neuroglia during the progression of Alzheimer´s disease and ageing
José Julio Rodríguez Arellano - IKERBASQUE, Spain

S24-02 Changes in microglial response to glutamate and thyroid hormone in neurodegenration
Mami Noda - Kyushu University Grad. Sch. Pharm. Sci., Japan

S24-03 Early signs of neuroinflammation and vascular dysfunction in experimental Alzheimer´s disease. Is the hilus mainly susceptible?
Flavia Saravia - National Research Council Argentina & Buenos Aires University, Argentina

S24-04 Dual role of reactive astrogliosis in CNS diseases - from animal models to molecular targets
Milos Pekny - University of Gothenburg, Sweden

MEETING PROGRAM / TUESDAY, AUGUST 25, 2015

17:00 - 19:00 Hall B

W03 Challenge for Central Nervous System Regeneration: A Synergistic Approach Combining Neurobiology and Biomaterial Engineering
Session Chair: Clare Parish, Australia
Session Co-Chair- Itsuki Ajioka, Japan

W03-01 Bioengineered scaffolds support human embryonic stem cell-derived cortical progenitor transplants in a rodent model of stroke
Clare Parish - The University of Melbourne, Australia

W03-02 Developing hydrogel scaffolds to promote spinal cord repair
Eva Sykova - Institute of Experimental Medicine ASCR, Czech Republic

W03-03 3D printing of layered brain-like structures
Rodrigo Lozano - University of Wollongong, Australia

W03-04 Understanding self-repairing potential by biological and biomaterial engineering approaches for brain regeneration
Itsuki Ajioka - Tokyo Medical and Dental University, Japan

W03-05 Neurogenesis and vascularization in the damaged brain trough lactate-releasing biomimetic materials
Soledad Alcantara - University of Barcelona, Spain

17:00 - 19:00 Hall C

W04 Microtubule-based Therapy for Alzheimer's Disease and other Tauopathies
Session Chair: Peter W. Baas, USA
Session Co-Chair- Eckhard Mandelkow, Germany

W04-01 It cuts two ways: Role of microtubule-severing proteins in microtubule loss during Alzheimer's disease
Peter Baas - Philadelphia, USA

W04-02 Tau toxicity and rescue in cell and animal models of tau pathology
Eckhard Mandelkow - DZNE, Germany

W04-03 Targeting microtubule end binding proteins with ADNP/NAP: from autism and schizophrenia to Alzheimer's disease
Illana Gozes - Tel Aviv University, Israel

W04-04 The role of cytoskeletal disruption and microtubule stabilization relative to axonal and synaptic pathology following injury and in Alzheimer's disease
James Vickers - University of Tasmania, Australia

W04-05 Novel strategies to target tau and Aβ toxicity
Jürgen Götz - The University of Queensland, Australia

MEETING PROGRAM / TUESDAY, AUGUST 25, 2015

17:00 - 19:00 Hall D

S19 Molecular Determinants of Homeostatic Plasticity in the Brain
Session Chair: Constanze Seidenbecher, Germany
Session Co-Chair: Renato Frischknecht, Germany

S19-01 An unbiased screen identifies the adaptor protein complex AP-3A as a mediator of synaptic scaling up
Gina Turrigiano - Brandeis University, USA

S19-02 Messages from the extracellular space: ECM during homeostatic plasticity
Renato Frischknecht - Leibniz Institut for Neurobiology, Germany

S19-03 Control of synaptic connectivity and homeostasis by astrocytes
Cagla Eroglu - Duke University Medical Center, USA

S19-04 Molecular mechanism of presynaptic integrity
Craig C. Garner - German Center for Neurodegenerative Diseases (DZNE), Germany

19:15 - 20:00 Hall A

Eccles Lecture (ANS)
Increased Intracranial pressure after Acute CNS Injury: a Basic Scientist's Perspective of a Clinical Problem

Robert Vink - University of South Australia, Australia
Welcome & Introduction: Sarah Dunlop

21:00 - 23:00 (by invitation only)

ISN President's Reception

MTU POSTER SESSIONS / MONDAY, AUGUST 24 AND TUESDAY, AUGUST 25, 2015

Poster presentation by authors between 12:30 - 14:30

MTU01 Glia (Part 1)

MTU01-01 Notch signaling is regulated by IGF-1 in astrocytes
Estefania Acaz-Fonseca - Cajal Institute (Spanish Research Council, Spain

MTU01-02 Intestinal mucositis induced by 5-fluorouracil results in spinal astrocyte expression changes in rats
Juliana Bajic - University of Adelaide, Australia

MTU01-03 Expression of glutamate transporter splice variants on oligodendrocytes in rat brain and in mixed glial cultures
Shannon Beasley - University of Queensland, Australia

MTU01-04 Modulation of spatiotemporal calcium dynamics in single astrocytes by neuronal activity
Yulia Dembitskaya - Lobachevsky State University of Nizhny Novgorod, Russia

MTU01-05 Gene expression profiling of mouse astrocytes during ageing - advantages and limitations of single-cell approach
David Dzamba - Institute of Experimental Medicine, Czech Republic

MTU01-06 Life, death, and oxidative stress: Fate mapping oligodendrocyte progenitor cells following neurotrauma
Marcus Giacci - The University of Western Australia, Australia

MTU01-07 Astroglial-mediated remodeling of the interhemispheric midline underlies the formation of the corpus callosum in eutherian mammals
Ilan Gobius - University of Queensland, Australia

MTU01-08 Methylphenidate Regulates Glutamate Transporters in Bergmann Glial Cells
Alain Guillem Del Angel - Cinvestav, Mexico

MTU01-09 6-sialyl-LewisC on N-glycan may be involved in microglial phagocytosis of neuron
Mai Handa - The Graduate University for Advanced Studies, Japan

MTU01-10 Crosstalk between PKC and Notch Pathways in Bergmann Glial Cells
Bruno López-Bayghen - CINVESTAV-IPN, Mexico

MTU01-11 The role of vascular-glial interactions in early diabetic retinopathy
Samuel Mills - The University of Melbourne, Australia

MTU01-12 Reversible control of pain by optogenetic stimulation of spinal astrocytes
Youngpyo Nam - Brain Science & Engineering Institute, South Korea

MTU01-13 Glial microvesicles transfer miR-146a to neurons and modulate synaptotagminI translation
Ilaria Prada - CNR-IN, Italy

MTU01-14 Oligodendrocyte macrostructure in CNS white matter - elucidating the mechanisms underlying linear array formation
Philipp Roth - The Florey Institute of Neuroscience & Mental Health, Australia

MTU01-15 SIM super-resolution microscopy to define the location and relationship of SVCT2 with synaptic proteins in cortical neurons
Katterine Salazar - University of Concepcion, Chile

MTU01-16 Control of neurogenic vs astrogliogenic fate in a restricted spinal cord progenitor domain
Maria Sartoretti - Leloir Institute, Argentina

MTU01-17 The importance of astrocytes and the blood-brain barrier for central cardiovascular control
Anthony Setiadi - The Florey Institute of Neuroscience & Mental Health, Australia

MTU01-18 The immunomodulatory properties of skin-derived Schwann cells: implications for cell transplant therapy in nerve injury
Jo Anne Stratton - Hotchkiss Brain Institute, Canada

MTU01-19 GABA transporters are regulated by P2Y1 receptor through a calcium signalling-dependent mechanism in rat cortical astrocytes
Sandra Vaz - IMM and Faculty of Medicine, Portugal

MTU01-20 Astrocytic chondroitin sulfate proteoglycans in brain injury and in glutamate uptake function
Akio Wanaka - Nara Medical University, Japan

MTU01-21 Analysis of myosin superfamily in mature cultured oligodendrocytes and in cuprizone-treated de- and remyelination model mice
Reiji Yamazaki - Tokyo University of Pharmacy and Life Sciences, Japan

MTU POSTER SESSIONS / MONDAY, AUGUST 24 AND TUESDAY, AUGUST 25, 2015

Poster presentation by authors between 12:30 - 14:30

MTU01-22 HF-rTMS treatment ameliorates acute cuprizone- induced demyelination and behavioral deficits
Yanbo Zhang - University of Saskatchewan, Canada

MTU02 Gene Regulation and Genetics

MTU02-01 The Effect of Allopregnanolone infusion on $GABA_A$ receptor subunits mRNA expression in the prefrontal cortex of rats
Felipe Borges Almeida - UFCSPA, Brazil

MTU02-02 Positive association of MAOA and VMAT2 with Autism Spectrum Disorder (ASD) in the Indian population
Barnali Chakraborti - Manovikas Kendra, India

MTU02-03 Hyperacute changes in patterns of mRNA expression in the blood of rats over time after middle cerebral artery occlusion
Marie Dagonnier - Florey Institute of Neuroscience and Mental Health, Australia

MTU02-04 Gender specific distribution of thyroid stimulating hormone receptor gene variants in subjects with Down syndrome
Arpita Dey - Manovikas Kendra, India

MTU02-05 Utility and challenges of whole-exome sequencing in the hunt for neurodegeneration genes
Carol Dobson-Stone - Neuroscience Research Australia, Australia

MTU02-06 Gene profiling in different stages of Alzheimer's disease: a genome-wide study
Francesca Fernandez-Enright - University of Wollongong, Australia

MTU02-07 Role of GNAS imprinted gene in neurodevelopment, sleep and cognition
Celina Garcia-Garcia - Istituto Italiano di Tecnologia (IIT), Italy

MTU02-08 Serotonin transporter gene (SLC6A4) has modulatory role on the expression of autistic phenotypes
Preeti Jaiswal - Manovikas Kendra , India

MTU02-09 The role of miRNAs in the regulation of α-synuclein expression
Paulina Janeczek - Menzies Health Institute Queensland, Australia

MTU02-10 Identification and neural circuit analysis of spexin neuropeptides in zebrafish
In-Young Jeong - Korea University, South Korea

MTU02-11 Genome-wide association study identifies the SLC2A14 gene on chromosome 12p13 as a trans-acting locus for methylation of MAPT gene
John Kwok - Neuroscience Research Australia, Australia

MTU02-12 Experience-dependent regulation of piRNA activity in the adult mouse hippocampus
Laura Leighton - Queensland Brain Institute, Australia

MTU02-13 Expression of 14-3-3 transcript isoforms in response to ethanol exposure and their regulation by miRNAs
Joanne Lewohl - Griffith University, Australia

MTU02-14 Dysregulation of SRY in the male brain: a genetic basis for sex-biased neurological disorders
Hannah Loke - MIMR-PHI Institute of Medical Research, Australia

MTU02-15 A pilot study on the eastern Indian ADHD probands to explore role of CDK 5 in the disease etiology.
SUBHAMITA MAITRA - Manovikas Kendra, India

MTU02-16 Dissociable roles of GADD45a/b in the rat perirhinal cortex and hippocampus for object memory: Different forms of DNA methylation?
Krista Mitchnick - University of Guelph, Canada

MTU02-17 Monoamine oxidase B (MAOB) gene polymorphisms modulate symptom severity of Autism Spectrum Disorder and platelet serotonin level
Usha Rajamma - Manovikas Kendra, India

MTU02-18 Exploring the role of histone demethylase, UTX,
in mediating sex differences in fear-related learning and memory
Vikram Ratnu - University of Queensland, Australia

MTU02-19 Key role for microRNA-223 in optic nerve regeneration in zebrafish
Jennifer Rodger - University of Western Australia, Australia

MTU POSTER SESSIONS / MONDAY, AUGUST 24 AND TUESDAY, AUGUST 25, 2015

Poster presentation by authors between 12:30 - 14:30

MTU02-20 "Genotype-first" approaches on a curious case of idiopathic progressive cognitive decline
Lingling Shi - Ji Nan University, China

MTU02-21 Regulation and role of miR-34 family in neuronal differentiation and apoptosis
Tanisha Singh - CSIR-Indian Institute Of Toxicology Research, India

MTU02-22 Monoamine oxidase A gene (*MAOA*) polymorphisms reveal male-specific effect on specific ASD phenotypes
Deepak Verma - Manovikas Kendra (MVK), India

MTU02-23 Genetic Knockdown of Gadd45g inhibits fear memory
WEI WEI - The University of Queensland, Australia

MTU02-24 Activity-dependent RNA methylation in learning and memory
Jocelyn Widagdo - The University of Queensland, Australia

MTU02-25 Discrimination of Genetic Determinants Contributing to Fear Responsiveness and Fear Memory
Yvette Wilson - The University of Melbourne, Australia

MTU03 Neuroinflammation

MTU03-01 Harnessing the immunomodulation milieu in the quest for neuroprotection in stroke: a systems biology approach
Mohammed Alam - National Brain Research Centre, India

MTU03-02 Regulation of the inflammatory cell response after traumatic brain injury by suppressor of cytokine signalling 2 (SOCS2)
Harleen Basrai - University of Melbourne, Australia

MTU03-03 Antagonism of PACAP or microglia function worsens the cardiovascular consequences of kainic acid induced seizures in rats
Amol Bhandare - Australian School of Advanced Medicine, Australia

MTU03-04 Reduction in brain hemispheric swelling in TREM2-deficient mice following traumatic brain injury
Monica Carson - University of California, USA

MTU03-05 Astrocytic ECGF1/TP and VEGF-A drive blood-brain barrier opening in inflammatory CNS lesions
Candice Chapouly - Corinne Goldsmith Dickinson Center for MS, USA

MTU03-06 Deletion of IFNAR1 in APPSWE/PS1ΔE9 mice results in increased cognitive function and changed microglial phenotype
Peter Crack - The University of Melbourne, Australia

MTU03-08 An enriched environment reduces inflammation, increases BDNF and modifies microRNA levels in the hypothalamus of obese mice
Maria del Sol Diaz de Leon-Guerrero - Instituto de Biotenología UNAM, México

MTU03-09 Mice experimentally infected with Schistosoma mansoni exhibit molecular markers of idiopathic neurodegenerative diseases
Daniel Gelain - Universidade Federal do Rio Grande do Sul, Brazil

MTU03-10 Microglial Wnt signaling inhibition promotes microglia activation and oligodendrocyte maturation blockade
Pierre Gressens - Inserm, France

MTU03-11 The effects of chronic neuroinflammation on the cholinergic system contributes to cognitive decline and motor function loss
Erika Gyengesi - University of Western Sydney, Australia

MTU03-12 Andrographolide attenuates lipopolysaccharide-induced chemokine upregulation: Implication for anti-neuroinflammation therapy
Mitchell Lai - National University of Singapore, Singapore

MTU03-13 Functionalised Self-Assembling Nanofibrous Peptide Hydrogel Influences Astrocyte Phenotype In Vitro
Francesca Maclean - Australian National University, Australia

MTU03-14 TREM2 deficient microglia display decreased phagocytosis without altering TAM receptor expression after systemic inflammation.
Abdullah Madany - UCR, USA

MTU POSTER SESSIONS / MONDAY, AUGUST 24 AND TUESDAY, AUGUST 25, 2015

Poster presentation by authors between 12:30 - 14:30

MTU03-15 Neuroimmune changes in chemotherapy-induced peripheral neuropathy
Preet Makker - University of New South Wales, Australia

MTU03-16 Peripheral immune complement activation in neurodegenerative disease
Susanna Mantovani - University of Queensland, Australia

MTU03-17 Neuroinflammmation in experimental progressive hydrocephalus
Funmilayo Olopade - University of Ibadan, Nigeria

MTU03-18 Neurotoxic Profiles of Vanadium When Administered at the Onset of Myelination in Rats: The Protective Role of Vitamin E
James Olopade - University of Ibadan, Nigeria

MTU03-19 Effects of IL-35 gene therapy on neuroinflammation and neuropathic pain following peripheral nerve injury
Chamini Perera - University of New South Wales, Australia

MTU03-20 Astrocyte-targeted IL10 production modifies expression of TREM2 in activated microglia after perforant pathway transection
Mireia Recasens Torné - University Autonomous of Barcelona, Spain

MTU03-21 Pathologic T cell cytokines have both beneficial and deleterious effects on oligodendrocyte lineage cells
Andrew Robinson - Northwestern University, USA

MTU03-22 The complement receptor C5aR controls acute inflammation and astrogliosis following spinal cord injury
Marc Ruitenberg - The University of Queensland, Australia

MTU03-23 Seizure Susceptibility After Traumatic Injury To The Pediatric Brain
Bridgette Semple - University of Melbourne/RMH, Australia

MTU03-24 Comparing Innate Immune Cell and Progenitor Cell Responses 24 hours after Spinal Cord Injury in Neonates, Juvenile and Adult Rats
Theresa Sutherland - University of Technology Sydney, Australia

MTU03-25 A novel 3-(4,5-Diphenyl-l,3-oxazol-2-yl)propanal oxime compound is a potent Transient Receptor Potential Ankyrin 1 and Vanilloid 1
Éva Szőke - University of Pecs, Hungary

MTU03-26 Changes of electrophysiology and pathology of optic nerves after visual prosthesis implantation
Yonghui Xiang - Jinan University, China

MTU04 Molecular Mechanism of Parkinson's Disease

MTU04-01 Carrier mediated delivery system bearing dopamine for effective management of parkinsonism
Saurabh Bhargava - Manav Bharti University, India

MTU04-02 Ferritin dysfunction and iron dyshomeostasis in Parkinson's disease: Investigations in Caenorhabditis elegans
Patricia Chege - Florey Institute of Neuroscience and Mental Health, Australia

MTU04-03 Defining how dopamine modulates α-synuclein oligomerisation
Andrea Connor - The University of Melbourne, Australia

MTU04-04 throwing light on neurodegeneration; small angle x-ray scattering studies on protein misfolding at the australian synchrotron
Cyril Curtain - University of Melbourne, Australia

MTU04-05 Reduced subventricular zone neurogenesis in Parkinson's disease is associated with increased phosphorylated α-synuclein
Kay Double - University of Sydney, Australia

MTU04-06 Fatty acid-binding protein 3 (FABP3) is critical for alpha-synuclein oligomerization in Parkinson disease
Kohji Fukunaga - Tohoku University Graduate School of Pharmaceutical Sciences, Japan

MTU04-07 Intrastriatal injection of alpha-synuclein fibrils induces olfactory deficits in mice
Laura Jacobson - Florey Institute of Neuroscience and Mental Health, Australia

MTU04-08 PINK1 phosphorylated ubiquitin is a Parkin activator
Fumika Koyano - Tokyo Metropolitan Institute of Medical Science, Japan

MTU POSTER SESSIONS / MONDAY, AUGUST 24 AND TUESDAY, AUGUST 25, 2015

Poster presentation by authors between 12:30 - 14:30

MTU04-09 Increased TLR2 expression on Parkinson's disease neurons
Ani Lack - NeuRA, Australia

MTU04-10 Genetic Basis for Male Susceptibility to Parkinson's disease
Joohyung Lee - MIMR-Prince HenryÍs Institute of Medical Research, Australia

MTU04-11 PARK9 deficiency mediated behavioural and movement disorders in mice
Jun-Ping Liu - Hangzhou Normal University, China

MTU04-12 LRRK2 regulates microglial α-synuclein clearance through the endocytosis pathway
Tatsunori Maekawa - Kitasato University, Japan

MTU04-13 Impact of MPP^+ on mitochondria and on DAT and SERT internalisation in mESC derived dopaminergic and serotonergic neurons
Yasmina Martí - Central Institute for Mental Health, Germany

MTU04-14 Inflammation and dopamine synthesis in neurodegeneration
Lin Kooi Ong - The University of Newcastle, Australia

MTU04-15 Hereditary Parkinsonism-associated mutations in ATP13A2 (PARK9) cause glycolytic dysfunction
Jin Sung Park - Kolling Institute of Medical Research, Australia

MTU04-16 The effect of TLR agonists on LRRK2 S910/S935 phosphorylation in human peripheral blood mononuclear cells
Gayathri Perera - Neuroscience Research Australia, Australia

MTU04-17 Effects of mesenchymal stem cell differentiation induced by linear micro and nano-topology and the associated miRNA profiling
Lin Qi - Xi'An Jiaotong University Suzhou Academy, China

MTU04-18 The interaction of Miro1 and α-synuclein in mitophagy
Dzhamilja Safiulina - University of Tartu, Estonia

MTU04-19 Cytotoxicity of low-dose dopamine is mediated by α-synuclein induced mitochondrial dysfunction in SHSY5Y cells
Arghyadip Sahoo - DESUN Hospital and Heart Institute, India

MTU04-20 Effect of TLR2 and TLR3 activation on SH-SY5Y neuronal-like cells: potential implications for Parkinson's disease
Amrita Shankar - Neuroscience Research Australia, Australia

MTU04-21 Sodium butyrate, a Histone deacetylase inhibitor, attenuates 6-hydroxydopamine induced hemi-Parkinsonism in rats
Sorabh Sharma - Birla Institute of Technology and Science, India

MTU04-23 Investigation of the co-function of parkin and PACRG
Sarah Stephenson - Murdoch Childrens Research Institute, Australia

MTU04-24 A novel proteinaceous aggregate associated with neuronal loss in Parkinson's disease
Ben Trist - University of Sydney, Australia

MTU04-25 Influence of SUMOylation Inhibitors on a Parkinson's Disease Cell Model
Shamini Vijayakumaran - Griffith University, Australia

MTU04-26 The interplay between purinergic signaling and the toxicity of extracellular alpha-synuclein
Anna Wilkaniec - Mossakowski Medical Research Centre PAS, Poland

MTU04-27 Identification of RAB39B mutations in early-onset Parkinson's Disease
Gabrielle Wilson - Murdoch Childrens Research Institute, Australia

MTU05 Neurological Dysfunction

MTU05-01 Characterisation of the AMPA and Kainate receptor in the hypoxic ischaemic piglet
Doreen Awabdy - The University of Queensland, Australia

MTU05-02 Effect of Angiotensin-Receptor-Blocker in mouse model of Chronic fatigue syndrome
Nitin Bansal - ASBASJSM College of Pharmacy, India

MTU POSTER SESSIONS / MONDAY, AUGUST 24 AND TUESDAY, AUGUST 25, 2015

Poster presentation by authors between 12:30 - 14:30

MTU05-03 Obesity or excess energy intake is not necessary for diet-induced cognitive deficits: The role of omega-6, saturated fat and sugar
Jessica Beilharz - UNSW, Australia

MTU05-04 Molecular Changes Within the Ageing Inner Ear
Mark Bigland - University Of Newcastle, Australia

MTU05-05 Tricaprin - a new anticonvulsant with multiple mechanisms of actions
Karin Borges - The University of Queensland, Australia

MTU05-06 Effects of Prolonged Diazepam Administration on Hippocampal EEG and Histology in a Mouse Model of Temporal Lobe Epilepsy
Dennis Cheung - UNSW Australia, Australia

MTU05-07 Aquaporin expression correlates with astrocytoma grade and microvascularity
Stefan Court-Kowalski - The University of Adelaide, Australia

MTU05-08 Rauwolfia vomitoria and Gongronema latifolium extracts combination protects young rats' dentate nucleus
Moses Ekong - University of Uyo, Nigeria

MTU05-09 In vivo electrophysiological characterisation of mouse lumbosacral dorsal horn neurons receiving visceral inputs
Kristen Farrell - University of Newcastle, Australia

MTU05-10 Dysfunctional synapse plasticity induced by Autism Spectrum Disorder associated Shank3 mutations
Kevin Lee - The University of Auckland, New Zealand

MTU05-11 First identification of a human mutation in synaptotagmin1 reveals perturbation of synaptic vesicle cycling
Sarah Gordon - University of Edinburgh, UK

MTU05-12 Effects of the KCC2 Membrane Transporter on Neuronal Excitability and Seizure Models in the Hippocampal Slice Preparation
Chelsea Goulton - UNSW Australia, Australia

MTU05-13 Sez6 binds the analgesic target α2δ and contributes to neuropathic pain plasticity
Jennifer Gunnersen - Anatomy and Neuroscience, Australia

MTU05-14 N-acetylaspartate: Genomics, Phenomics and Metabonomics
Ziggy Harrison-Tikisci - UNSW Australia, Australia

MTU05-15 The Effects of fluoride and Arsenic Exposure on the cholinergic-nitrergic system, cognitive functions and inflammatory markers
Ayushi Jain - Univ. college of science, India

MTU05-17 Oxidative Stress in Dementia Patients - Study Using dROMs and BAP Test
Kiyoshi Kanaya - Medical doctor, Japan

MTU05-18 Developing a new model of spontaneous intracerebral hemorrhage in rats
Charlotte Krenus - The Florey Institute of Neuroscience and Mental Health, Australia

MTU05-19 Nociceptin Inhibits Neuronal Excitability and Epileptiform Activity in the Entorhinal Cortex
Saobo Lei - University of North Dakota, USA

MTU05-20 Role of Intersectin-1 in metal ion dyshomeostasis, cognition and motor function in Down syndrome
Nakisa Malakooti - University of Melbourne, Australia

MTU05-21 Characterising tachykinin NK-1 receptor and caveolin-1 expression in cerebral metastases
Kimberley Mander - University of Adelaide, Australia

MTU05-22 Striatal Deficits Underlie Conflicted Patterns of Action Selection in Ageing
Miriam Matamales - Clem Jones Centre for Ageing Dementia Research, Australia

MTU05-23 Neonatal seizures are independently associated with loss of $GABA_A$ a3 protein expression in the hypoxic ischaemic piglet
Stephanie Miller - The University of Queenland, Australia

MTU05-24 Cytoarchitectural and morphometric analyses of the lateral prefrontal cortex of rats administered with nicotine during gestation
Gabriel Omotoso - University of Ilorin, Nigeria

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MTU05-25 Regeneration of sensory but not motor axons following visceral nerve injury
Sophie Payne - University of Melbourne, Australia

MTU05-26 Investigation of the amyloid precursor protein derivative APP96-110 as a novel therapeutic agent following traumatic brain injury
Stephanie Plummer - The University of Adelaide, Australia

MTU05-27 Sertraline (antidepressant) inhibits 4-AP-induced ionic channel activation more efficiently than several anti-epileptic drugs
Maria Sitges - Instituto de Investigaciones Biomédicas, Mexico

MTU05-28 Dopamine transporter deficiency syndrome: New clinical findings and disease modelling in zebrafish
Kimberley Smith - UCL School of Pharmacy, UK

MTU05-29 Phospho- and ubiquitinated-proteomics of aging mice brain by iTRAQ-based quantitative analysis
Masaoki Takano - Kobe Gakuin University, Japan

MTU05-30 Stromal interaction molecule 1 (STIM1) is required for correct nervous system development
Adrian Thompson - University of Tasmania, Australia

MTU05-31 The effect of an organophosphorus agent on human neuroblastoma cell line SK-N-SH
Kosuke Yamada - Kinki University, Japan

MTU05-32 Balance hypothesis of behavioral characteristics and urinary monoamine metabolites in neurodevelopmental disorders
Takanobu Yamamoto - Tezukayama University, Japan

MTU05-33 Modulator of apoptosis 1 (MOAP-1) may influence behavior
Hui Zhao - National University of Singapore, Singapore

MTU05-34 Tau reduction prevents neurodegeneration in a mice model of traumatic brain injury
Ping Zheng - Royal Melbourne Hospital, Australia

MTU06 Cholinergic Transmission

MTU06-01 The Role of p75NTR in Cholinergic Basal Forebrain Structure and Function
Zoran Boskovic - Queensland Brain Institute, Australia

MTU06-02 Nuclear organization and morphology of the sleep related nuclei in the brain of the Arabian Oryx, Oryx leucoryx
Joshua Davimes - University of the Witwatersrand, South Africa

MTU06-03 Effects of postnatal nicotine exposure on nicotine acetylcholine receptors in the piglet brainstem
Jessica Huang - University of Sydney, Australia

MTU06-04 Hippocampal and striatal histomorphology, AChE and neurogenic markers activities following repeated administration of nicotine
Omamuyovwi Ijomone - Obafemi Awolowo University, Nigeria

MTU06-05 The blood-brain barrier choline transporter
Masato Inazu - Tokyo Medical University, Japan

MTU06-06 Classical and atypical agonists activate M1 muscarinic acetylcholine receptors through common mechanisms
Jan Jakubik - Institute of Physiology Academy of Sciences of the Czech Republic, Czech Republic

MTU06-07 alpha7 nicotinic acetylcholine receptor-deficient mice exhibit sustained attention impairments that are reversed by ABT-418
Benjamin Kolisnyk - University of Western Ontario, Canada

MTU06-08 Effect of carbachol stimulation on medial prefrontal cortex network activity in acute slices from neuropathic and control mice
Kai K. Kummer - Medical University of Innsbruck, Austria

MTU06-09 MicroRNA discriminators of brain-intestinal TLR9-cholinergic communication
Bettina Nadorp - The Hebrew University of Jerusalem, Israel

MTU06-10 Cholinergic mechanisms of meningeal nociception
Irina Shelukhina - Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Russia

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Poster presentation by authors between 12:30 - 14:30

MTU06-11 Ecto-NTPDases, the ATP metabolizing enzymes, are critical determinants of cholinergic inhibition by adenosine in the human urinary
Isabel Silva - ICBAS-UP, Portugal

MTU06-12 Decreased nicotinic acetylcholine receptor expression in the developing piglet hippocampus after postnatal nicotine exposure
Arunnjah Vivekanandarajah - Department of Medicine, Australia

MTU07 Synaptic Transmission

MTU07-01 The Direct Action of Cannabidiol at GABA-A Receptors
Timothy Bakas - University of Sydney, Australia

MTU07-02 Glutamine transport mechanisms in perisynaptic astrocytes
Brian Billups - The Australian National University, Australia

MTU07-03 Molecular determinants in two loops of the glutamate transporter 1 involved in transporter reorganization
Walden Bjørn-Yoshimoto - University of Copenhagen, Denmark

MTU07-04 Polysialic acid controls neuronal activity in the nucleus of the solitary tract influencing the tonic and reflex control of blood pressure
Phill Bokiniec - Macquarie University, Australia

MTU07-05 Paraventricular nucleus of the hypothalamus afferents excite second order nucleus of the solitary tract neurons in mice
David Carter - The University of Melbourne, Australia

MTU07-06 Analysing dendritic NMDA spikes from synchronous and asynchronous multi-site synaptic activation
Julian Choy - ANU, Australia

MTU07-07 Phosphorylation of Synaptic Vesicle Protein 2A at Thr84 Controls the Specific Retrieval of Synaptotagmin-1
Michael Cousin - University of Edinburgh, United Kingdom

MTU07-08 Effects of Gamma Subunit Mutations on Mobility and Clustering of GABA-A Receptors Studied by Super-resolution Microscopy
Nela Durisic - University of Queensland, Australia

MTU07-09 Identifying the GABA-A Receptor ivermectin binding site
Argel Estrada - The University of Queensland (QBI), Australia

MTU07-11 Towards a detailed description of AP180 assembly domain-protein interactions in clathrin mediated endocytosis6
Mark Graham - Children's Medical Research Institute, Australia

MTU07-12 Intrinsic circuitry of the lateral central amygdala
Sarah Hunt - University of Queensland, Australia

MTU07-13 Targeting changes in inhibitory signalling in chronic pain
Wendy Imlach - University of Sydney, Australia

MTU07-14 Synthesising and characterising new ivermectin analogues targeting ligand-gated chloride channels
Robiul Islam - The University of Queensland, Australia

MTU07-15 Fluoxetine Induces Restoration of Plasticity in the Adult Vestibular System
Qiu-fen Jiang - Li Ka Shing Faculty of Medicine, China

MTU07-16 Glutamate receptor expression and stability is regulated via TSG101-dependent lysosomal degradation
Sriharsha Kantamneni - University of Bradford, United Kingdom

MTU07-17 Structural and energetic pathways in glycine receptor activation
Angelo Keramidas - University of Queensland, Australia

MTU07-18 Measuring KCC2 function in brain slices using BCECF imaging
Ashor Khoshaba - University of New South Wales, Australia

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MTU07-19 Impact of APP and APLP2 deletion on the hippocampal PAZ proteome
Melanie Laßek - Cell Biology and Neuroscience, Germany

MTU07-20 Synthesis of Methyl Palmitate in the Rat Superior Cervical Ganglion
Tony Lee - Buddhist Tzu Chi General Hospital, Taiwan

MTU07-21 Subunit-specific modulation of glycine receptors by ginkgolic acid
Galyna Malieieva - Institut de Neurosciences des Systemes, France

MTU07-22 Transport Rates of a Glutamate Transporter Homologue are Influenced by the Lipid Bilayer
Benjamin McIlwain - University of Sydney, Australia

MTU07-23 Role of Bassoon in the regulation of synaptic vesicle pool size
Carolina Montenegro - Leibniz Institute for Neurobiology, Germany

MTU07-24 Analysis of the localization of glutamate receptors in X11/X11L double-deficient mice
Rika Motodate - Hokkaido University, Japan

MTU07-25 Calcium Independent and Voltage Dependent Exocytosis in Mouse Chromaffin Cells
José Moya-Díaz - University of Buenos Aires, Argentina

MTU07-26 Neuroligin-3 controls excitatory synaptic transmission onto hippocampal parvalbumin interneurons and mediates fear extinction
Jai Polepalli - Stanford University, USA

MTU07-27 Depolarization-dependent syndapin I phosphorylation in nerve terminals
Annie Quan - Children's Medical Research Institute, Australia

MTU07-28 Light induced Fos expression in GABA and TPH cells in the dorsal raphe nuclei of Mongolian gerbil
Chaoran Ren - Jinan University, China

MTU07-29 Testing the effectiveness of an ivermecting activated human silencing receptor
Margreet Ridder - Queensland Brain Institute, Australia

MTU07-30 A unique western blot method to measure the number of glutamate receptor subunits
Kenji Sakimura - Niigata University, Japan

MTU07-31 A novel murine mouse model for hyperekplexia
Natascha Schaefer - Klinische Neurobiologie, Germany

MTU07-32 Morphological and biochemical analyses of PSD-core structure of type I excitatory synapses
Tatsuo Suzuki - Shinshu University, Japan

MTU07-33 Changes in Odour Coding Across the Input Layer of the Mouse Piriform Cortex In Vivo
Malinda Tantirigama - The Australian National University, Australia

MTU07-34 Vesicular release of ATP from dopaminergic neurons in the retina and brain
Kirstan Vessey - The University of Melbourne, Australia

MTU07-35 The influence of proline residues within the TM3-4 loop of the human glycine receptor on channel functionality
Carmen Villmann - University of Wuerzburg, Germany

MTU07-36 Control of autophagosome axonal retrograde flux by presynaptic activity unveiled using botulinum neurotoxin type-A
Tong Wang - Queensland Brain Institute, Australia

MTU07-37 Effects of components of sake on GluN1/GluN2A and GluN1/GluN2B subtypes of NMDA receptor
Tomo Yabuki - Kinki University, Japan

MTU07-38 Functional reconstitution of glycinergic synapses incorporating defined glycine receptor subunit combinations
Yan Zhang - The University of Queensland, Australia

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MTU08 Signal Transduction

MTU08-01 IP3 and/or Inositol levels changes are Separate Effects of Lithium that may Mediate its Induced Behavioral and Cellular Changes
Galila Agam - Ben-Gurion University of the Negev, Israel

MTU08-02 TRPV1 expression in corneal afferent neurons
Abdulhakeem Alamri - University of Melbourne, Australia

MTU08-03 Calbindin D28k and S100B have a similar interaction site with the lithium-inhibitable enzyme IMPase-1: a new drug target site
Orna Almog - Ben-Gurion University of the Negev, Israel

MTU08-04 New pharmacological tools to investigate oxytocin receptors in neurodevelopmental brain disorders
Marta Busnelli - CNR, Italy

MTU08-05 Redox-Sensitive Activation of PI3K/Akt Pathway in RVLM on Endoplasmic Reticulum Stress-Associated Neurogenic Hypertension
Yung-Mei Chao - Chang Gung Memorial Hospital, Taiwan

MTU08-06 M1 muscarinic receptors newly incorporated into plasma membrane of CHO cells demonstrate alterations in agonist binding properties
Eva Dolejsi - Institute of Physiology CAS, 14220

MTU08-07 Neuronal depolarization induces tyrosine phosphorylation of TLS/FUS and its translocation to the nucleus
Ritsuko Fujii - Hiroshima Bunkyo Women's University, Japan

MTU08-08 Cdk5 regulates Rab8-dependent axonal outgrowth via phosphorylation of Rab8 guanine-exchange factor GRAB
Kotaro Furusawa - Tokyo Metropolitan University, Japan

MTU08-09 Optopharmacological control of endogenous G protein-coupled receptors
Cyril Goudet - Institut de Genomique Fonctionnelle, France

MTU08-10 Sequestration of GDNF family ligands in inflammatory bone pain
Jason Ivanusic - University of Melbourne, Australia

MTU08-11 Manipulation of spatial working memory persistence in mice
Se Jin Jeon - Kyung Hee University, South Korea

MTU08-12 Suppression of NMDA-induced alteration of mitochondrial membrane potential by treatment of $GABA_B$ receptor agonist
Nobuyuki Kuramoto - Setsunan University, Japan

MTU08-13 Role of Ras in endothelin-dependent ERK activation in cortical astrocytes
Dimitra Mangoura - Biomedical Research Foundation of the Academy of Athens, Greece

MTU08-14 Glutamate uptake characterization in HepG2 cells
Zila Martinez-Lozada - Cinvestav del IPN, Mexico

MTU08-15 Visualization of neurotransmitter uptake in serotonergic neurons
Friederike Matthaeus - Central Institute for Mental Health, Germany

MTU08-16 The effect of western diet consumption on neuronal activation in the hippocampus and associated brain regions
Jason Nguyen - RMIT University, Australia

MTU08-17 The potential role of SNX12 in endosomal vesicle trafficking in the central nervous system
Jae ryun Ryu - Korea University, South Korea

MTU08-18 The effects of insulin induced hypoglycaemia on tyrosine hydroxylase phosphorylation in the rat brain and adrenal gland
Manjula Senthilkumaran - University of South Australia, Australia

MTU08-19 Phosphorylation of serotonin 1A receptor (5HT1AR) by Cdk5 activity
Miyuki Takahashi - Tokyo Metropolitan University, Japan

MTU08-20 Cdk5 activator, p35 is degraded by proteasome via Two pathways
Toshiyuki Takasugi - Tokyo Metropolitan University, Japan

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MTU08-21 KCNQ2/3 localization and function at the axon initial segment is disrupted in variants causing epileptic encephalopathy
Baouyen Tran - Baylor College of Medicine, USA

MTU08-22 Inhibiting internalized receptors at the source of pain transmission
Nicholas Veldhuis - Monash Institute of Pharmaceutical Sciences, Australia

MTU08-23 Allosteric interactions at the human translocator protein
Eryn Werry - The University of Sydney, Australia

MTU08-24 Suppressor of Cytokine Signalling 2 (SOCS2) interacts with TrkB receptor and regulates neuronal outgrowth
Akram Zamani - University of Melbourne, Australia

MTU08-25 ER calcium modulates spontaneous firing of cerebellar Purkinje neuron
Da-Yoon Jung - Seoul National University, South Korea

MTU09 Neurogenesis and Cell Differentiation (Part 1)

MTU09-01 Exogenous carbon monoxide improves neuronal differentiation: a near-death experience
Ana Sofia Almeida - CEDOC, Portugal

MTU09-02 The role of CHL1 in ventral midbrain dopamine development
Walaa Alsanie - The University of Melbourne, Australia

MTU09-03 Neonatal lethality of neural crest cell-specific Rest knockout mice by the reduction of acetylcolinesterase activity in myenteric
Hitomi Aoki - Glfu University Graduate School of Medicine, Japan

MTU09-04 Quantitating phosphatidylcholine species changes during differentiation of induced pluripotent stem cells into neurons
Monique Bax - University of Wollongong, Australia

MTU09-05 Small molecule approach to direct differentiation of human induced pluripotent stem cells to sensory neurons
Sa Cai - The University of Hong Kong, China

MTU09-06 Early life diet influences hippocampal microglial maturation and cognitive function throughout life.
Simone De Luca - RMIT University, Australia

MTU09-07 Persistent radial glial cells in the adult human SVZ differentially express Fatty Acid Binding proteins (FABPs)
Victor Dieriks - Auckland University, New Zealand

MTU09-08 Melatonin attenuates methamphetamine-induced decrease in adult hippocampal progenitor cell proliferation via cell cycle inhibition
Kasima Ekthuwapranee - Molecular Biosciences, Thailand

MTU09-09 Catecholamine innervation of the hippocampus and the relevance to adult neurogenesis and dementia in Parkinson's disease
Charlotte Ermine - The Florey, Australia

MTU09-10 Evidence of neurogenesis from Nestin-expressing cells in the adult mouse midbrain
Parisa Farzanehfar - Florey Institute of Neuroscience and Mental Health, Australia

MTU09-11 The organisation, development and connectivity of two callosal projections arising from the mouse somatosensory cortex
Laura Fenlon - Queensland Brain Institute, Australia

MTU09-12 Differentiation potential of NG2 glia after ischemia is controlled by Sonic hedgehog
Pavel Honsa - Institute of Experimental Medicine, Czech Republic

MTU09-13 Optogenetically activated cAMP signaling induces axonal elongation and branching
Yuji Ikegaya - The University of Tokyo, Japan

MTU09-14 Analysis on mechanisms underlying promotion of neuronal differentiation by ergothioneine in neural stem cells
Takahiro Ishimoto - Kanazawa University, Japan

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MTU09-15 Drebrin knockout results in the impairment of olfaction and adult neurogenesis
Yuki Kajita - Gunma university, Japan

MTU09-16 Differentiation potential of neonatal neural stem/progenitor cells is affected by Wnt signaling
Jan Kriska - Institute of Experimental Medicine, Czech Republic

MTU09-17 Inducible knockout of Mef2A, C, and D from nestin-lineage stem cells impairs hippocampal neurogenesis in vivo
Sarah Latchney - UT Southwestern Medical Center, USA

MTU09-18 Histo-cytometric analysis of prenatal mesencephalic dopaminergic terminal specification based on Nurr1 and tyrosine hydroxylase
Wei Luan - Queensland Brain Institute, Australia

MTU09-19 Delineating the function of Amyloid Precursor Protein dimerisation in neuritogenesis in SH-SY5Y Cells
Luan Luu - Melbourne University, Australia

MTU09-20 Adult born neurons: Do cells "retire" and does developmental age matter?
Shane Ohline - University of Otago, New Zealand

MTU09-21 Vitamin D regulates tyrosine hydroxylase expression: N-cadherin may be a possible mediator
Renata Pertile - University of Queensland, Australia

MTU09-22 NFIX regulates the mode of radial glial cell division during hippocampal morphogenesis
Michael Piper - University of Queensland, Australia

MTU09-23 Modafinil promotes adult neuronal cell proliferation and modulate multiple signaling pathways during 48h sleep deprivation
Surajit Sahu - DIPAS, India

MTU09-24 Effect of Lemur Kinase 1A (LMTK1A) on trafficking of endosomal vesicles
Govinda Sharma - Tokyo Metropolitan University, Japan

MTU09-25 Developmental scenarios for the evolutionary origin of the corpus callosum
Rodrigo Suarez - The University of Queensland, Australia

MTU09-26 Metabolism of Tamoxifen in mouse brain: Implications for fate-mapping studies using tamoxifen-inducible Cre/Lox system
Martin Valny - Institute of Experimental Medicine, Czech Republic

MTU09-27 Bio-engineered scaffolds promote the functional integration of transplanted human ESC-derived cortical progenitors in stroke rats
Ting-Yi Wang - The University of Melbourne, Australia

MTU09-28 PGC-1alpha directed neuronal differentiation as a therapeutic intervention in Alzheimer's disease model
Anuradha Yadav - Indian Institute of Toxicology Research, India

MTU10 Animal Model of Neuropsychiatric Disorders (Part 1)

MTU10-01 Syngap1 haploinsufficiency affects pyramidal neuron morphological maturation in developmental brain
Massimiliano Aceti - The Scripps Research Institute, USA

MTU10-02 Fluphenazine (a typical antipsychotic) has purgative effect in turkey
Saganuwan Alhaji Saganuwan - University of Agriculture, Nigeria

MTU10-03 Perinatal phencyclidine reduces NWASP and WAVE1 protein expression and reduces levels of myelination markers in the PFC of rats
Jessica Andrews - Illawarra Health and Medical Research Institute, Australia

MTU10-04 Selective Estrogen Receptor Modulators, raloxifene and tamoxifen, modulate dopaminergic activity: Implications for schizophrenia
Andrea Gogos - University of Melbourne, Australia

MTU10-05 Relaxin-3/RXFP3 and the septohippocampal pathway: Effects on learning and memory of viral-based RXFP3 changes in transgenic mice
Mouna Haidar - Florey Institute of Neuroscience and Mental Health, Australia

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MTU10-06 The oligodendroglial abnormalities in mood disorders: a study of human and monkey post mortem brain
Yoshitaka Hayashi - Shiga University of Medical Science, Japan

MTU10-07 Comparing repetitive transcranial magnetic stimulation and fluoxetine treatment on the olfactory bulbectomy model of depression
Alesha Heath - University of Western Australia, Australia

MTU10-08 Understanding the Disc1 locus impairment mouse using RNA-seq
Mari Kondo - Johns Hopkins University School of Medicine, USA

MTU10-09 A proteomic study of the nucleus accumbens following sensitisation to MK-801 in the rat
Emilia Lefevre - Queensland Brain Institute, Australia

MTU10-10 Risperidone-induced weight gain in juvenile female rats through modulating hypothalamic histaminergic/NPY pathways and activity
Jiamei Lian - University of Wollongong, Australia

MTU10-11 Differential short- and long-term behavioural effects of chronic antipsychotic treatment in adolescent and adult rats
Aung Aung Kywe Moe - Queensland Brain Institute, Australia

MTU10-12 Maternal Immune Activation alters molecular indices of the NMDA receptor in the striatum
Tasnim Rahman - Neuroscience Research Australia, Australia

MTU10-13 NMDAR antagonism in major depressive disorder and anxiety - a study of efficacy and side-effects of NMDAR antagonists
Louise Refsgaard - University of Copenhagen, Denmark

MTU10-14 Resveratrol abrogates insulin resistance-induced pain-depression dyad in rats
Anand Kamal Sachdeva - Panjab University, India

MTU10-15 Does developmental vitamin D deficiency exacerbate the effects of second hit exposures?
Michelle Sanchez Vega - The Queensland Brain Institute, Australia

MTU10-16 Estradiol regulates gamma-band oscillations in the hippocampus and related cognitive functions
Anna Schroeder - The University of Melbourne, Australia

MTU10-17 Enhanced adenosine A1 receptor expression promotes antidepressant effects mediated by homer1a upregulation
Tsvetan Serchov - University Hospital Freiburg, Germany

MTU10-18 Relaxin-3/RXFP3 signalling promotes motivational drive and stress resilience in mice
Craig Smith - The Florey Institute of Neuroscience and Mental Health, Australia

MTU10-19 The drive to drink - MMP-9 as a positive controller in alcohol reward-driven behaviors
Marzena Stefaniuk - Nencki Institute of Experimental Biology, Poland

MTU10-20 Relaxin-3/RXFP3 systems and central stress- and anxiety-related circuits in mice
Cary Zhang - Florey Institute of Neuroscience and Mental Health, Australia

MTU11 Neurodegenerative Disease (Part 1)

MTU11-01 The control of firing pattern of the midbrain periaqueductal gray neurons
Mridula Arun - University of Queensland, Australia

MTU11-02 The role of FTLD-associated proteins in neurite and synapse health and function
Rachel Atkinson - University of Tasmania, Australia

MTU11-03 Cognitive performance testing of p38 MAP kinase knockout mice using the touchscreen Operant Chamber
Josefine Bertz - UNSW Australia, Australia

MTU11-04 TDP-43 mediated synaptic alterations in the pathogenesis TDP-43 proteinopathies
Catherine Blizzard - University of Tasmania, Australia

MTU11-05 Functional Analysis of Amyotrophic Lateral Sclerosis-associated Mutations of Profilin 1 in Primary Mouse Neurons
Merryn Brettle - UNSW Australia, Australia

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MTU11-06 Environmental and pharmacological intervention ameliorates age-associated cognitive deficits and prevents neurodegeneration in a mouse model of Down Syndrome
Silvina Catuara Solarz - Center for Genomic Regulation, Spain

MTU11-07 Neuroprotective effects of α-mangostin against scopolamine-induced cognitive deficits
Suksan Changlek - School of Pharmacology, Thailand

MTU11-08 NMDA preconditioning alters the functionality of the adenosine A2a receptor in mice
Leandra Constantino - University Federal of Santa atarina, Brazil

MTU11-09 Toll-like receptor 4 activation exacerbates injury following repetitive mild traumatic brain injury
Frances Corrigan - University of Adelaide, Australia

MTU11-10 Beyond the redox imbalance: Contributes to an oxidative stress modulation GLUT3 impaired in Huntington's disease
Adriana Covarrubias - Universidad Austral de Chile, Chile

MTU11-11 Glycogen accumulation induces neurodegeneration. Lafora disease.
Jordi Duran - IRB Barcelona, Spain

MTU11-12 Moderation of enhanced mGluR1 mediated synaptic signalling restores motor learning in a mouse modeof human spino-cerebellar ataxia
Ruth Empson - University of Otago, New Zealand

MTU11-13 Assessment of retinal degeneration and lipofuscin accumulation in the CLN6 mouse model of Neuronal Ceroid Lipofuscinosis
Philipp Guennel - University of Melbourne, Australia

MTU11-14 Cumulative functional copper deficiency in spinal cords of amyotrophic lateral sclerosis (ALS) model mice and sporadic ALS cases
James Hilton - University of Melbourne, Australia

MTU11-15 A pure compound from Moringa oleifera: a possible antidote to vanadium neurotoxicity
Olumayowa Igado - University of Ibadan, Nigeria

MTU11-16 Identification of Proteins Interacting with Amyloid Precursor Protein for Neurotoxicity and Neuroprotection
Chaitanya Inampudi - The University of Melbourne, Australia

MTU11-17 Single chain recombinant antibodies to target TDP-43 interactions
Jean-Pierre Julien - Laval University, Canada

MTU11-18 Degradation of inhibitory chondroitin sulphate proteoglycans improves graft integration in Parkinsonian mice
Jessica Kauhausen - Florey Institute of Neuroscience and Mental Health, Australia

MTU11-19 New insights in quantitative analysis of phosphorylation of Tau in AD model mouse and Tauopathy brains by Phos-tag SDS-PAGE
Taeko Kimura - Tokyo Metropolitan University, Japan

MTU11-20 Peptidome and proteome analysis of cerebrospinal fluid and serum in Guillain-Barre Syndrome
Sergey Kovalchuk - IBCH RAS, Russia

MTU11-21 Restoration of biochemical, behavioral and ultrastructural changes in aging rat brain: Neuroprotective role of 17β -estradiol
Pardeep Kumar - Jawaharial Nehru University, India

MTU11-22 Human prion diseases in Brazil
Michele Christine Landemberger - A.C. Camargo Cancer Center, Brazil

MTU11-23 Modulatory effects of Tumor Necrosis Factor α on Neurotrophins in Myelinating Spinal Cord and Dorsal Root Ganglion cultures
Jaldeep Langhnoja - The Maharaja Sayajirao University of Baroda, India

MTU11-24 Nogo receptor 1 (NgR1) deletion in axons halts axonopathy and demyelination during experimental autoimmune encephalomyelitis (EAE)
Jae young Lee - Monash University, Australia

MTU11-25 Estimating spatial sensitivity profiles for electrical stimulation of retinal ganglion cells
Matias Maturana - Australian College of Optometry, Australia

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MTU11-26 Cypermethrin induces early-onset neurodegeneration and cognitive impairment in rats: upregulated levels of oxidative stress, gsk3
Juhi Mishra - CSIR-Indian Institute of Toxicology Research, India

MTU11-27 Effect of Retinoic acid on telomerase activity in SH-SY5Y cell
Akhabue Okojie - University of Nigeria, Nigeria

MTU11-28 Kolaviron was Protective against NaN3 induced Oxidative Stress in the Prefrontal Cortex
Olajide Olayemi - University of Ilorin, Nigeria

MTU11-29 Consecutive Mapping of Glucose and Copper Metabolism in Mouse Brain with F-18 FDG and 64CuCl2-PET/CT
Fangyu Peng - University of Texas Southwestern Medical Center, USA

MTU11-30 Survival motor neuron protein upregulation slows disease progression in a mouse model of amyotrophic lateral sclerosis
Nirma Perera - The Florey Institute of Neuroscience and Mental Health, Australia

MTU11-31 MMP-9 action and dendritic spines remodeling during post-traumatic epileptogenesis
Barbara Pijet - Nencki Institute of Experimental Biology, Poland

MTU11-32 A LA-ICPMS time course analysis of changes in cerebral metals following a controlled cortical impact
Stuart Portbury - Florey Insttute of Neuroscience and Mental Health, Australia

MTU11-33 effect of melatonin on the alteration of clock gene and melatonin receptor expression in hippocampus of the aging rats
Ratchadaporn Pramong - Srinakharinwirot University, Thailand

MTU11-34 Neurodegenerative consequences of episodic metabolic stress in oligodendrocytes
Daniel Radecki - Wayne State Univeristy, USA

MTU11-35 Fucoidan protects hippocampal neurons and its synaptic profile in rats subjected to transient global cerebral ischemia
Radhakrishnan Ramesh Kumar - Dr.A.L.M.Post Graduate Institute of Basic Medical Sciences, India

MTU11-36 Activity of NS-309 in pilocarpine treated chronically epileptic rat slices in vitro
Liaquat Raza - Inst. of Neurophysiology Charite - Universitatmedizin Berlin, Germany

MTU11-37 Stereotactic delivery of M1000 prions to the dorsal CA1 in mice induces greater fear extinction and spatial memory disturbance
Matteo Senesi - The University of Melbourne, Australia

MTU11-38 Expansion of suppressor Tregs by IL-2/IL-2 mAb complexes slows disease progression in the mutant SOD1 mouse model of ALS
Rebecca Sheean - Florey Institute of Neuroscience and Mental Health, Australia

MTU11-39 Does reduced synaptic spine density in pyramidal neurons underlie symptoms of a neurodegenerative lysosomal storage disorder?
Andrew Shoubridge - South Australian Health and Medical Research Institute, Australia

MTU11-40 Discovery and characterization of potent biphasic α5GABA$_A$ receptor modulators
Ming Soh - Queensland Brain Institute, Australia

MTU11-41 The role of PFN1 in the pathogenesis of ALS
Elisa Teyssou - Brain & Spine Institute, France

MTU11-42 Neurotrophin Regulation of Alzheimer's Disease Pathology
Marion Turnbull - University of Queensland, Australia

MTU11-43 Isolation of brain derived extracellular vesicles for studying pathobiology & identifying biomarkers of neurodegenerative disease
Laura Vella - The Florey Institute for Neuroscience and Mental Health, Australia

MTU11-44 Functional recovery in new mouse models of ALS/FTLD after clearance of TDP-43 pathology
Adam Walker - University of Pennsylvania, USA

MTU11-45 Characterizing how post translational modifications can alter the serine protease inhibition of the KPI domain in APP
Bruce Wong - The Florey Institute of Neuroscience and Mental Health, Australia

MTU11-46 Therapeutic potential of N-acetylcysteine in Huntington's disease: Effects on glutamate uptake and mitochondrial function in mice
Dean Wright - University of Melbourne, Australia

MTU POSTER SESSIONS / MONDAY, AUGUST 24 AND TUESDAY, AUGUST 25, 2015

Poster presentation by authors between 12:30 - 14:30

MTU11-47 Tetramethylpyrazine nitrone protects retinal ganglion cells against N-methyl-D-aspartate induced injury
Ying Xu - Jinan University, China

MTU11-48 p53/HMGB1 Complexes regulates mitochondria dysfunction-triggered striatal neurodegeneration via autophagy and apoptosis activation
Xingding Zhang - UT MD Anderson Cancer Center, USA

MTU12 Psychiatric Disorders and Drug Abuse (Part 1)

MTU12-01 Repeated exposure to a serotonin1B/1A agonist facilitates acquisition of MDMA self-administration
Dane Aronsen - Victoria University of Wellington, New Zealand

MTU12-02 The First Alcohol Drink Triggers mTORC1-Dependent Synaptic Plasticity in Nucleus Accumbens Dopamine D1 Receptor Neurons
Jacob Beckley - University of California San Francisco, USA

MTU12-03 Cocaine self-administration enhances D1 medium spiny neuron activity and drives drug seeking via microtubule signaling cascades
Erin Calipari - Icahn School of Medicine at Mount Sinai, USA

MTU12-04 Evaluation of the brain damage and behavioral changes after ethanol withdrawal and allopregnanolone infusion in rats
Priscila Costa - Health Science Federal University of Porto Alegre - UFCSPA, Brazil

MTU12-05 Long-term Effects of Childhood/Adolescent Antipsychotic Drug Treatment on Dopamine Binding in Adult Rats
Michael De Santis - Antipsychotic Research laboratory, Australia

MTU12-06 Blocked fear renewal in adult rats by disconnection of the infralimbic cortex-amygdala-hippocampus circuitry during extinction
Despina Ganella - Florey Institute of Neuroscience and Mental Health, Australia

MTU12-07 Differential effects of modafinil and methamphetamine on epigenetic and glutamatergic markers expression in the prefrontal cortex
Betina Gonzalez - ININFA, Argentina

MTU12-08 4i (N-(3-Chloro-2-methylphenyl) quinoxalin-2-carboxamide), a novel 5HT3 antagonist, reverses diabetes-induced depressive phenotype
Deepali Gupta - BITS-Pilani, India

MTU12-09 Septal glucagon-like peptide 1 receptor expression determines suppression of cocaine-induced behaviour
Anne Harasta - University of New South Wales Australia, Australia

MTU12-10 Effects of adjunctive raloxifene treatment on brain activity during facial emotion processing in schizophrenia
Ellen Ji - University of New South Wales, Australia

MTU12-11 Orexin2 (OX2) receptors in nucleus incertus mediate stress-induced reinstatement of alcohol-seeking in alcohol-preferring (iP) rat
Hanna Kastman - The Florey Institute of Neuroscience and Mental Health, Australia

MTU12-12 Effect of the Dual Orexin Receptor Antagonist TCS1102 on Intravenous Nicotine Self-Administration and Reinstatement in the Rat
Shaun Y Khoo - University of New South Wales, Australia

MTU12-13 Localised injection of MK-801 into limbic brain regions increase high frequency neural oscillations in distant brain regions
Jaime Lee - University of Melbourne, Australia

MTU12-14 mGluR5 dysregulation in schizophrenia and cognition: from gene to protein
Natalie Matosin - University of Wollongong, Australia

MTU12-15 Sex-specific cognitive and motivational profiles following sucrose consumption during adolescence in rats
Amy Reichelt - UNSW, Australia

MTU POSTER SESSIONS / MONDAY, AUGUST 24 AND TUESDAY, AUGUST 25, 2015

Poster presentation by authors between 12:30 - 14:30

MTU12-16 Vulnerability to the reinforcing effects of MDMA:Results of self-administration studies in rats
Susan Schenk - Victoria University of Wellington, New Zealand

MTU12-17 Agmatine rescued autistic behavior in valproic acid induced animal model of autism:New implication for the ASD
Chan young Shin - Konkuk uiversity, South Korea

MTU12-18 More than replacement therapy: amphetamine treatment rescues the behavioral and neurochemical consequences of cocaine
Cody Siciliano - Wake Forest School of Medicine, USA

MTU12-19 Delineation of rostromedial tegmental nucleus (RMTg) in rats and mice via nociceptin/OFQ expression and anatomical connectivity
Rachel Smith - Texas A&M University, USA

MTU12-20 Neurochemical phenotyping of RXFP3+ cells in the mouse bed nucleus of the stria terminalis
Sarah Sulaiman Ch'ng - Florey Institute of Neuroscience and Mental Health, Australia

MTU12-21 A silent synapse-based mechanism of alcohol addiction
Anna Suska - Nencki Institute of Experimental Biology, Poland

MTU12-22 Ethanol administration modulates expression of the α4 subunit of neuronal nicotinic acetylcholine receptors in the amygdala
Josephine Tarren - Translational Research Institute, Australia

MTU12-23 Behavioral and $GABA_A$ receptors subunits mRNA effects of cocaine in 6-hidroxidopamine lesioned male and female rats
Laísa Umpierrez - Health Science Federal University of Porto Alegre/ UFCSPA, Brazil

MTU12-24 Involvement of mitochondrial dysfunctions in ASD and ADHD
Poonam Verma - Indian Institute of Chemical Biology Kolkata, India

MTU12-25 Selective estrogen receptor modulation increases hippocampal activity during probabilistic association learning in schizophrenia
Thomas Weickert - University of New South Wales, Australia

MTU12-26 Methamphetamine, MDMA and Bath Salts induce cytotoxic effects in bovine brain microvessel endothelial cells
Syed Ali - National Center for Toxicological Research, USA

MTU12-27 mGluR2 possitive allosterism possibly complements the hallucinogenic mechanism of action of Ayahuasca
Mario De la Fuente Revenga - Consejo Superior de Investigaciones Científicas, Spain

MTU13 Mechanism of Neuroprotection (Part 1)

MTU13-01 Prevention of retinal ganglion cell degeneration by a selective calpain-2 inhibitor in a mouse model of acute glaucoma
Michel Baudry - Western University of Health Sciences, USA

MTU13-02 Hydrogen sulphide: protective or deleterious?
Su Jing Chan - National University of Singapore, Singapore

MTU13-03 TIMP-1 loaded nanoparticles: a therapeutic strategy for neuroprotection
Mayank Chaturvedi - Nencki Institute of Experimental Biology, Poland

MTU13-04 Melatonin ameliorates branched chain fatty acids-induced neurotoxicity in rat brain synaptosomes
Shaista Chaudhary - Jamia Hamdard, India

MTU13-05 Walnuts reduce the levels of soluble amyloid beta oligomers and increase its clearance in mouse model of Alzheimer's disease
Abha Chauhan - NYS Institute for Basic Research in Developmental Disabilities, USA

MTU13-07 A role for BDNF in mediating adolescent GABAergic interneuron expression
Xin Du - The Florey Institute of Neuroscience and Mental Health, Australia

MTU13-08 Neuroprotection against Neurotoxicity: Inconsistent morphological parameters
Francis Fakoya - St. George's University, Grenada

MTU POSTER SESSIONS / MONDAY, AUGUST 24 AND TUESDAY, AUGUST 25, 2015

Poster presentation by authors between 12:30 - 14:30

MTU13-09 Tau Depletion Prevents Brain Damage in a Mouse Model of Stroke with Reperfusion
Amadeus Gladbach - UNSW, Australia

MTU13-10 Adult vitamin D deficiency is associated with impaired cognition, oxidative stress and vulnerability to second hit exposures
Natalie Groves - Queensland Brain Institute, Australia

MTU13-11 Oligodendroglial exosomes protect neurons and influence axonal transport
Wen Ping Kuo-Elsner - University of Mainz, Germany

MTU13-12 Neuroprotective propensity of Bacopa monniera in vitro (PC12 cells) and in vivo (Wistar rats)
Pandareesh Mirazkar - National Institute of Mental Health and Neurosciences, India

MTU13-13 Targeting ppar-gamma modulates the peripheral neuropathic pain: possible biochemical, mitochondrial evidences
Raghavender Pottabathini - University Institute Of Pharmaceutical Sciences, India

MTU13-14 Metformin can alleviate the age-related retinal vulnerability to pressure injury by reducing oxidative stress level.
Fatemeh Rezania - The University of Melbourne, Australia

MTU13-15 Melatonin enhances autophagic activity via RelA p65 deacetylation activity by Sirtuin 1 in senescence-like state in SH-SY5Y cells
Puritat Sinjanakhom - Research Center for Neuroscience, Thailand

MTU13-16 Pharmacokinetic properties of a dimeric inhibitor of postsynaptic density protein-95 in rats
Jens Bak Sommer - University of Copenhagen, Denmark

MTU13-17 Pair Housing Reverses the Detrimental Effect of Social Isolation in Aged Mice after Stroke
Rajkumar Verma - University of Connecticut Health Center, USA

MTU13-18 Nerve Growth Factor (NGF) and artemin regulate neurite outgrowth differently both in normal and injured adult rat sensory neurons
Agnes Wong - Melbourne University, Australia

MTU13-19 Melatonin modulates methamphetamine-induced NFκB activation and TNFα overexpression through the MT1/MT2 receptor
Pawaris Wongprayoon - Research Center for Neuroscience, Thailand

MTU13-20 Protective role of Neuregulin 1 in inflammatory cytokine induced endothelial barrier hyperpermeability
Limin Wu - Massachusetts General Hospital, USA

MTU13-21 In vivo Activation of Adenosine Monophosphate Kinase might have Neuroprotective Potential in Experimental Diabetic Neuropathy
Veera ganesh Yerra - National Institute of Pharmaceutical Education and Research-Hyderabad, India

MTU14 Autonomic-Autonomic/Neuroendocrine Systems

MTU14-01 Central Neuronal Pathways Activated By Leptin and Resistin
Naif ALsuhaymi - RMIT university, Australia

MTU14-02 Sensory signalling of gut contractility
Simon Brookes - Flinders University, Australia

MTU14-03 Prolactin-dependent regulation of enkephalin expression in the tuberoinfundibular dopaminergic neurons of the lactating mouse
Stephen Bunn - University of Otago, New Zealand

MTU14-04 Enteric inhibitory motor neurons in the guinea pig are insensitive to the action potential blocker lidocaine
Marcello Costa - Flinders University, Australia

MTU14-05 Projections from the inferior colliculus drive putative sympathetic, respiratory and motor populations in the ventral medulla
Bowen Dempsey - Macquarie University, Australia

MTU POSTER SESSIONS / MONDAY, AUGUST 24 AND TUESDAY, AUGUST 25, 2015

Poster presentation by authors between 12:30 - 14:30

MTU14-06 Neuromechanical factors involved in the formation and propulsion of fecal pellets in the guinea-pig colon
Phil Dinning - Flinders Medical Centre, Australia

MTU14-07 Opioid receptors into medial amygdaloid nucleus modulate neuroendocrine responses evoked by restraint stress in rats
Aline Fassini - Medicine School of Ribeirao Preto, Brazil

MTU14-08 Differential effects of subchronic and chronic corticosterone administration on circadian glucocorticoid rhythms in C57Bl/6 mice
Katie Fennell - The Florey Institute of Neuroscience and Mental Health, Australia

MTU14-09 Neuroendocrine tumors and secretion: what potential links?
Stephane Gasman - Cellular and Integrative neuroscience institute (INCI), France

MTU14-10 Proteomic changes in the adrenal medulla following a single episode of glucoprivation: a time-course study
Ann Goodchild - Macquarie University, Australia

MTU14-11 Regulation of sympathetic nerve activity by adipokines
Hamza Habeeballah - RMIT University, Australia

MTU14-12 Quantitative immunohistochemical co-localization of TRPV1 and CGRP in varicose axons of murine oesophagus, stomach and colorectum
Timothy Hibberd - Flinders University, Australia

MTU14-13 Somatostatin 2a receptors are not expressed on functionally identified respiratory neurons in the ventral respiratory column
Sheng Le - Macquarie University, Australia

MTU14-14 Distinct Organization of Upper Airway Vagal Circuits in the Brain: Evidence from Conditional Viral Tracing and Physiology
Alice McGovern - The University of Queensland, Australia

MTU14-15 Putative sympathetic premotor neurons in the rostral ventrolateral medulla are not somatotopically distributed
Simon McMullan - Macquarie University, Australia

MTU14-16 Bilateral injection of clonidine into the amygdala substantially impairs alerting-induced tail artery vasoconstrictions in rats
Mazher Mohammed - Flinders University, Australia

MTU14-17 Multifunctional confirguration of the nucleus retroambiguus in the rat in vivo
Kelly Munro - The University of Queensland, Australia

MTU14-18 nucleus incertus networks and their influence on arousal and cognition: dreadd studies
Emma Ong-Palsson - The Florey Institute of Neurosciense and Mental Health, Australia

MTU14-19 Long-term consequences of neonatal overfeeding on female reproductive maturation and function
Luba Sominsky - RMIT University, Australia

MTU14-20 Orexin-1 receptor distribution in the mouse brain stem: co-localization with tyrosine hydroxylase and nNOS
Song Yao - Florey Institute of Neuroscience and Mental Health, Australia

MTU14-21 Electroacupuncture at ST25 Inhibits Jejunal Motility via Sympathetic Pathways: Role of TRPV1
Zhi Yu - Key Laboratory of Integrated Acupuncture and Drugs, China

MTU POSTER SESSIONS / MONDAY, AUGUST 24 AND TUESDAY, AUGUST 25, 2015

Poster presentation by authors between 12:30 - 14:30

MTU15 Sensory Systems (Part 1)

MTU15-01 Assessing cochlear amplifier adaptation to noise
Jennie Cederholm - University of New South Wales Australia, Australia

MTU15-02 50B11 cells as a peripheral sensory neuron model for sphingolipid and neurotrophin signalling
Rainer Haberberger - Flinders University, Australia

MTU15-03 TRPA1-mediated analgesic effect of a novel semicarbazide-sensitive amine oxidase inhibitor in a mouse model of chronic neuropathy
Zsuzsanna Helyes - University of Pecs, Hungary

MTU15-04 Use of a transgenic CGRPα reporter mouse to correlate the function and neurochemical content of colorectal afferent neurons
Timothy Hibberd - Flinders University, Australia

MTU15-05 Red light improves sensory and motor recovery following spinal cord injury in rats
Di Hu - Australian National University, Australia

MTU15-06 Indexing neurovascular coupling by combining electroencephalogram and functional transcranial doppler
Hannah Keage - University of South Australia, Australia

MTU15-07 Imaging serotonergic, CGRP, and NOS positive fiber terminals in the dorsal horn of the mouse spinal cord with CLARITY
Andy Liang - Neuroscience Research Australia, Australia

MTU15-08 Reproducible surface potentials in the dorsal column nuclei evoked from peripheral nerves
Alastair Loutit - Australian National University, Australia

MTU15-09 Synaptic contacts between the diffuse cone bipolar cell type DB3a and ganglion cells in the marmoset retina
Rania Masri - The University of Sydney, Australia

MTU15-10 Sensory discrimination in dendrites
Andrew Micallef - The Florey Institute of Neuroscience and Mental Health, Australia

MTU15-11 Transcranial Magnetic Stimulation (TMS) generates GABAβ-mediated inhibition in Layer 5 dendrites
Sean Murphy - Florey Inst of Neuroscience & Mental Health, Australia

MTU15-12 An in-vivo whole nerve electrophysiological preparation to explore the function of bone afferent neurons in the rat
Sara Nencini - University of Melbourne, Australia

MTU15-13 Red light pretreatment reduces mechanical hypersensitivity and improves locomotor recovery following sciatic nerve chronic constriction injury.
Sara Sarraf - The Australian National University, Australia

MTU15-14 Peripheral Nerve Injury Alters the Excitability of Calretinin Positive Dorsal Horn Neurons
Kelly Smith - University of Newcastle, Australia

MTU15-15 Electrical maturation of sensorimotor processing in the human foetus
Melissa Tadros - University of Newcastle, Australia

MTU15-16 Habitual reading direction influences visual search ability differently in the left and right halves of the visual field
Trichur Vidyasagar - University of Melbourne, Australia

MTU15-17 Cortical gating of sensory responses in the amygdala
Francois Windels - University of Queensland, Australia

MTU15-18 Canonical toll-like receptor mechanisms regulate vagal sensory neuron excitability and growth: Role for TRP channels
Jennifer Keller - University of Queensland, Australia

MTU15-19 Sensory mechanisms of obstruction-induced detrusor overactivity
Vladimir Zagorodnyuk - Flinders University, Australia

MEETING PROGRAM / WEDNESDAY, AUGUST 26, 2015

08:30 - 09:30 Hall A

PL04 Plenary Lecture: Understanding and modulating Mosquito attraction to humans
Professor Leslie Vosshall, The Rockefeller University, USA
Welcome & Introduction: Kazuhiro Ikenaka, ISN Treasurer

09:30 - 10:00 Hall D

Focus Group 1 (sign up required)

10:00 - 10:30 Coffee Break / Poster Viewing / Exhibition Booths

10:30 - 12:30 Hall A

S20 Microglia Plasticity - Molecular Characteristics of Different Phenotypes
Session Chair: Bozena Kaminska, Poland
Session Co-Chair: Mike Dragunow, New Zealand

S20-01 Microglia plasticity - molecular characteristics of different phenotypes
Bozena Kaminska - Nencki Institute of Experimental Biology, Poland

S20-02 Human microglial biology
Mike Dragunow - University of Auckland, New Zealand

S20-03 Microglia in neuroprotection and CNS immunosenescence
Wolfgang Jake Streit - University of Florida, USA

S20-04 Microglial cells promote glioma growth
Helmut Kettenmann - Max Delbrueck Center for Molecular Medicine, Germany

MEETING PROGRAM / WEDNESDAY, AUGUST 26, 2015

10:30 - 12:30 Hall B

S21 What do HCN Channels Teach us about Health and Disease?
Session Chair: Christopher A. Reid, Australia
Session Co-Chair: Nigel Jones, Australia

S21-01 Epigenetic regulation of HCN Channels: a window into neuroplasticity?
Tallie Z. Baram - University of California-Irvine, USA

S21-02 The identification and characterization of novel HCN2 mutation found in febrile seizure patients
Yuki Nakamura - Nagoya City University, Japan

S21-03 Pre-synaptic HCN channel plasticity in epilepsy
Mala Shah - University College London, United Kingdom

S21-04 Generalised seizure---mediated changes in HCN channels associates with learning deficits
Christopher Reid - Florey Institute for Neuroscience and Mental Health, Australia

10:30 - 12:30 Hall C

S22 Synaptic Cell Adhesion in Development and Plasticity
Session Chair: Eckart Gundelfinger, Germany
Session Co-Chair: Eunjoon Kim, South Korea

S22-01 Neuroplastins, Ig-like CAMs with differential functions in inhibitory and excitatory synapses
Eckart Gundelfinger - Leibniz Institute for Neurobiology, Germany

S22-02 Neuroligins at inhibitory synapses - mechanisms of synaptogenesis and dysfunction in autism
Nils Brose - Max Planck Institute of Experimental Medicine, Germany

S22-03 Role of NGL-3 in the regulation of synapse formation and synaptic plasticity
Eunjoon Kim - Institute for Basic Science (IBS), South Korea

S22-04 New perspectives on NMDA receptor function
Morgan Sheng - Genentech, USA

MEETING PROGRAM / WEDNESDAY, AUGUST 26, 2015

10:30 - 12:30 Hall D

S23 Lipids in Normal and Pathological Neuronal Function
Session Chair: Vitale Nicolas, France

S23-01 Cholesterol in the nervous system: different roles of an essential lipid
Gesine Saher - Max Planck Institute of Experimental Medicine, Germany

S23-02 PLD1 generated phosphatidic acid and neuronal function in normal and pathological condition
Nicolas Vitale - CNRS, France

S23-03 Role of sphingomyelin in neuronal physiology and pathology
Maria Dolores Ledesma - Consejo Superior Investigaciones Científicas, Spain

S23-04 Resident CAPS (CADPS) on dense-core vesicles primes vesicles for exocytosis
Thomas Martin - University of Wisconsin-Madison, USA

12:30 - 14:30 Lunch / Poster Session / Exhibition Booths

14:30 - 16:30 Hall A

W01 Neuroepigenetics: from Neural Development to Adult Neurogenesis
Session Chair: Seiji Hitoshi, Japan
Session Co-Chair: Richard Q. Lu, USA

W01-01 Epigenetics in the maintenance of neural stem cells
Seiji Hitoshi - Shiga University of Medical Science, Japan

W01-02 Chromatin modifying enzyme histone deacetylase 3 controls the fate switch between oligodendrocytes and astrocytes
Richard Q Lu - Cincinnati Children's Hospital Medical Center, USA

W01-03 Embryonic versus adult neural stem cells
Yukiko Gotoh - The University of Tokyo, Japan

W01-04 Transgenic monkeys overexpressing MeCP2 exhibit autism-like behavioral abnormalities
Zilong Qiu - Institute of Neuroscience, China

W01-05 NRSF/REST regulation of gene networks in adult neural stem cells
Jenny Hsieh - UT Southwestern Medical Center, USA

MEETING PROGRAM / WEDNESDAY, AUGUST 26, 2015

14:30 - 16:30 Hall B

S25 Cellular and Molecular Approaches to Study Pathomechanisms of Familial PD
Session Chair: Kirsten Harvey, United Kingdom
Session Co-Chair: Glenda Halliday, Australia

S25-01 The role of LRRK2 in cell biological function
Kirsten Harvey - University College London, United Kingdom

S25-02 The central role of alpha-synuclein in Parkinson's disease
Glenda Halliday - University of New South Wales, Australia

S25-03 Parkinson-associated VPS35 mutations alter Retromer cellular functions
Rohan Teasdale - University of Queensland, Australia

S25-04 Kinase signaling between MARK2 and PINK1 - a link between the pathophysiologies of Alzheimer and Parkinson diseases
Eva-Maria Mandelkow - DZNE, Germany

14:30 - 16:30 Hall C

S26 What is Glycogen doing in the Brain? - Biochemistry, Physiology, Pathology
Session Chair: Lasse K. Bak, Denmark

S26-01 Two isoforms of glycogen phosphorylase activated by the same signaling trains - how and why?
Lasse Bak - University of Copenhagen, Denmark

S26-02 Role of brain glycogen in long-term potentiation, associative learning, hypoxia, and hippocampal seizures in alert behaving mice
José María Delgado-García - Pablo de Olavide University, Spain

S26-03 Role of glycogen-derived lactate in synaptic plasticity and memory
Igor Allaman - Ecole Polytechnique Federale de Lausanne, Switzerland

S26-04 Glycogen content and metabolism studied by in vivo ^{13}C magnetic resonance spectroscopy in healthy and diabetic human brain
Gülin Öz - University of Minnesota, USA

MEETING PROGRAM / WEDNESDAY, AUGUST 26, 2015

14:30 - 16:30 Hall D

S27 Temporal Evolution of Microglial Function and Phenotype in Ischemic Injury
Session Chair: Ines Koerner, *USA*
Session Co-Chair: Jonathan Weinstein, USA

S27-01 Effects of ischemic preconditioning on microglial phenotype and transcriptome
Jonathan Weinstein - University of Washington, USA

S27-02 Chronic stress exacerbates neuronal loss associated with secondary neurodegeneration and suppresses microglial-like cells following focal motor cortex ischemia in the mouse
Frederick R. Walker - University of Newcastle, Australia

S27-03 Microglia are activated to a neurotoxic phenotype and exacerbate delayed neuronal death after cardiac arrest
Ines Koerner - OHSU, USA

S27-04 Microglia phagocytose stressed neurons resulting in delayed neuronal death by phagoptosis after brain ischaemia or inflammation
Julius Emmrich - Charité Berlin, Germany

16:30 - 17:00 Coffee Break / Poster Viewing / Exhibition Booths

17:00 - 19:00 Hall A

W05 How to Publish a Good Paper? (Quality, Reproducibility and Impact)
Session Chair: Jörg B. Schulz, Germany
Session Co-Chair: Laura Hausmann, Germany

W05-01 What's your research story? Data Quality and Reliability
Jorg Schulz - RWTH Aachen, Germany

W05-02 Get your message to the reviewers
Laura Hausmann - RWTH Aachen University Hospital, Germany

W05-03 The ethics of publishing
Sean Murphy - University of Washington School of Medicine, USA

W05-04 Maximize Outreach
Peter D'Onghia - John Wiley & Sons, Australia

MEETING PROGRAM / WEDNESDAY, AUGUST 26, 2015

17:00 - 19:00 Hall B

S28 Neuroinformatics Tools and Neurochemical Atlases for Global Neuroscience Collaboration
Session Chair: Gary Eagan, Australia
Session Co-Chair: Jan Bjaalie, Norway

S28-01 Brain atlasing and the role of the International Neuroinformatics Coordinating Facility (INCF) in global neuroscience research
Jan Bjaalie - University of Oslo, Norway

S28-02 Second generation brain atlases - the impact of histochemistry, developmental gene expression, and MRI
Charles Watson - Curtin University, Australia

S28-03 Mapping neural connections in primates - an expanding role for cortical connectivity atlases
Marcello Rosa - Monash University, Australia

S28-04 Towards a multimodal human brain atlas - cytoarchitecture, neurotransmitters and fiber tracts
Katrin Amunts - Forschungszenrum Juelich GmbH, Germany

17:00 - 19:00 Hall C

S29 Optogenetics and Optopharmacology to Illuminate the Brain
Session Chair: Pau Gorostiza, Spain

S29-01 Channelrhodopsin et al.: Natural and engineered photoreceptors for optogenetic applications
Georg Nagel - University Wuerzburg, Germany

S29-02 Optovins convert endogenous TRPA1 channels into photoreceptors
Randall Peterson - Harvard Medical School, USA

S29-03 An allosteric modulator to control endogenous G protein-coupled receptors with light
Pau Gorostiza - ICREA, Spain

S29-04 Multicoloured optogenetic manipulation of synaptic function
John Lin - University of Tasmania, Australia

MEETING PROGRAM / WEDNESDAY, AUGUST 26, 2015

17:00 - 19:00 Hall D

S38 New Roles of Neural Glycosaminogycans (GAGs) in Deveplopment, Plasticity, Regeneration and Disease
Session Chair: Michihiro Igarashi, Japan
Session Co-chair: Joris De Wit, Belgium

S38-01 Glypicans as novel regulators of synaptic connectivity
Joris De Wit - VIB/KU Leuven, Belgium

S38-02 Mice lacking in an enzyme involved in chondroitin sulfate synthesis shows better recovery from spinal cord injury
Kosei Takeuchi - Aichi Medical University, Japan

S38-03 Targeting the extracellular matrix to repair the damaged nervous system
James W. Fawcett - University of Cambridge, United Kingdom

S38-04 Heparan sulfate as an autism susceptibility molecule
Yu Yamaguchi - Sanford-Burnham Medical Research Institute, USA

19:00 -19:45 Hall A

Meet ISN Alumni

19:45 - 21:30 Hall A

Business Meeting of the International Society of Neurochemistry *(active members only)*

19:45 - 21:30 Hall C

Annual General Meeting of the Australasian Neuroscience Society

MEETING PROGRAM / THURSDAY, AUGUST 27, 2015

08:30 - 10:00 Hall A

YIC01 Circuitry, Plasticity and Development
Session Chair: Mohanakumar Kochupurackal, ISN Council Member

YIC01-01 Calcium dependent regulation of actin dynamics in spines
Marina Mikhaylova - Utrecht University, Netherlands

YIC01-02 Regulation of AMPA receptor function by protein ubiquitination
Victor Anggono - The University of Queensland, Australia

YIC01-03 The emerging role of chondroitin sulphate proteoglycans (CSPGs) in controlling plasticity of the central nervous system
Jessica Kwok - University of Cambridge, United Kingdom

YIC01-04 Synaptic MMP controls structural plasticity
Jakub Wlodarczyk - Nencki Institute, Poland

YIC01-05 A new axis of neuroprotection: insights on how PINK1 and PKA cooperate to regulate mitochondrial function, mitophagy, and dendritic outgrowth
Ruben Dagda - University of Nevada, USA

08:30 - 10:00 Hall B

YIC02 Mechanisms of Glial Function, including Inflammation
Session Chair: Andrew Lawrence, ANS President

YIC02-01 Chromatin landscape defined by repressive histone methylation during oligodendrocyte differentiation
Jia Liu - Icahn School of Medicine at Mount Sinai, USA

YIC02-02 Neuroinflammation in chronic neuropathologies: the role of the type-1 interferons
Juliet Taylor - University of Melbourne, Australia

YIC02-03 Mechanisms of STI1 protection of hippocampal neurons from adverse effects of β-amyloid oligomers
Valeriy Ostapchenko - Western University, Canada

YIC02-04 Behavioral Transcriptomics: A molecular perspective on experience-dependent plasticity
Ami Citri - The Hebrew University of Jerusalem, Israel

YIC02-05 Leucine-rich repeat kinase 2 and toll-like receptor inflammatory signaling
Nicolas Dzamko - Neuroscience Research Australia, Australia

MEETING PROGRAM / THURSDAY, AUGUST 27, 2015

08:30 - 10:00 Hall C

YIC03 Behavior, Addiction and Psychobiology
Session Chair: Prakash Babu

YIC03-01 Synapse-to-nucleus signaling by CtBP1 regulates neuronal gene expression: implications for restorative plasticity in depression
Anna Fejtova - Leibniz Institute for Neuroscience, Germany

YIC03-02 Endogenous CB1 allosteric enhancer balances age-related cognitive alterations
Fabricio Alano Pamplona - DOr Institute for Research and Education (IDOR), Brazil

YIC03-03 Neuronal circuits in central amygdala underlying socially transferred fear
Ewelina Knapska - Nencki Institute of Experimental Biology, Poland

YIC03-04 Molecular and Functional Roles of Nucleus Accumbens Circuits in Motivational Behaviors
Mary Kay Lobo - University of Maryland School of Medicine, USA

YIC03-05 Addiction-like synaptic impairments in diet-induced obesity
Robyn Brown - Florey Neuroscience Institute of Neuroscience & Mental Health, Australia

08:30 - 10:00 Hall D

YIC04 Disease, Neurodegeneration and Therapy
Session Chair: John Rostas, Local Host Committee Chair ISN-APSN 2015

YIC04-01 Metabolic deterioration underlying impaired memory performance in insulin resistance
Joao M. Das Neves Duarte - Ecole Polytechnique Federale de Lausanne, Switzerland

YIC04-02 Rescuing tau isoforms imbalance by RNA reprogramming: Towards a novel therapeutic approach for tauopathies.
Elena Avale - Consejo Nacional de Investigaciones Cientificas y Tecnicas, Argentina

YIC04-03 Long term in-vivo modelling of human ES and iPS cells for Parkinson's disease
Chris Bye - The Florey Institute of Neuroscience and Mental Health, Australia

YIC04-04 A novel pathway by which 17β-estradiol regulates spatial memory: relevance to schizophrenia
Rachel Hill - Florey Institute for Neuroscience and Mental Health, Australia

YIC04-05 Identification and characterization of endogenous LXR ligands in human cerebrospinal fluid; relation to motor neuron disease
Spyridon Theofilopoulos - Karolinska Institute, Sweden

10:00 - 10:30 Coffee Break / Poster Viewing / Exhibition Booths

MEETING PROGRAM / THURSDAY, AUGUST 27, 2015

10:30 - 12:30 Hall A

S30 Nucleotide Repeat Sequences in Neurodegeneration
Session Chair: Anthony Hannan, Australia
Session Co-Chair: Danny Hatters, Australia

S30-01 Repeat Expansions: Mutagenesis, Pathogenesis, and Therapeutics
Christopher Pearson - The Hospital for Sick Children, Canada

S30-02 Understanding how mouse and human neurons cope with mutant huntingtin
Steven Finkbeiner - Gladstone Institute of Neurological Disease, USA

S30-03 Molecular mediators, environmental modulators and gene-environment interactions in Huntington's disease
Anthony Hannan - University of Melbourne, Australia

S30-04 Isogenic stem cell-based modelling of huntington disease: towards validation and discovery of therapeutic targets in human neurons
Mahmoud Pouladi - National University of Singapore and ASTAR, Singapore

10:30 - 12:30 Hall B

S31 Non-coding RNAs: Important Regulators in the Nervous System
Session Chair: Michaela Kress, Austria
Session Co-Chair: Mark Landry, France

S31-01 Non-coding RNA deregulation in pain associated with neuropathy and cancer
Rohini Kuner - Heidelberg University, Germany

S31-02 MiR-134-dependent plasticity of nociceptive spinal circuits
Marc Landry - University of Bordeaux, France

S31-03 Molecular Determinants of Schizophrenia-Associated Alteration of miRNA Biogenesis
Murray Cairns - University of Newcastle, Australia

S31-04 Non-coding RNAs modulating sensory neuron function and regeneration
Michaela Kress - Medical University Innsbruck, Austria

MEETING PROGRAM / THURSDAY, AUGUST 27, 2015

10:30 - 12:30 Hall C

S32 Central Role of Glial Cells in the Pathogenesis of Schizophrenia
Session Chair: Cyndi Shannon Weickert, Australia
Session Co-Chair: Francesca Notarangelo, USA

S32-01 Astrocytic dopamine modulates neuronal network and cognitive functions in the prefrontal cortex
Jean-Pierre Mothet - CNRS - Aix Marseille University, France

S32-02 The astrocyte-derived tryptophan metabolite kynurenic acid: neuromodulation and links to schizophrenia
Francesca Notarangelo - University of Maryland School of Medicine, USA

S32-03 Activation of microglia and astrocytes in schizophrenia is linked to increases in brain cytokines
Cynthia Shannon Weickert - NeuRA, Australia

S32-04 Development of 'psychosis' and its prevention following prenatal exposure to maternal inflammation
Ina Weiner - Tel-Aviv University, Israel

10:30 - 12:30 Hall D

S33 The Endocannabinoid System and Brain Function: Problems and Possibilities
Session Chair: Christopher Fowler, Sweden

S33-01 Impact of endocannabinoid signaling during adolescence on drug abuse and reward processing
Miriam Schneider - CIMH, Germany

S33-02 The effect of cannabinoids on human brain structure, function and neurochemistry
Nadia Solowij - University of Wollongong, Australia

S33-03 Targeting Endocannabinoid Regulating Enzymes to Treat Drug Addiction in Preclinical Models of Dependence
Aron Lichtman - Virginia Commonwealth University, USA

S33-04 Endogenous cannabinoids and emotional resiliency: Translational implications for therapeutics development
Sachin Patel - Vanderbilt University, USA

12:30 - 14:30 Lunch / Poster Session / Exhibition Booths

MEETING PROGRAM / THURSDAY, AUGUST 27, 2015

14:30 - 16:30 Hall A

S34 From Mechanisms to Novel Therapeutic Targets in Combatting Epileptogenesis and Epilepsy
Session Chair: Christoph Schwarzer, Austria
Session Co-Chair: Asla Pitkänen, Finland

S34-01 Emerging role of glial cells in epileptogenesis and as therapeutic targets
Christian Steinhäuser - University of Bonn, Germany

S34-02 Targeting tau-based mechanisms as anti-epiletogenic therapy: from animals to humans
Nigel Charles Jones - The University of Melbourne, Australia

S34-03 Neuropeptides in Epilepsy: Molecular Basis to Treatment Options
Christoph Schwarzer - Medical University Innsbruck, Austria

S34-04 From mechanisms to biomarker identification for epileptogenesis
Asla Pitkänen - University of Eastern Finland, Finland

14:30 - 16:30 Hall B

S35 Molecular Mechanisms of Neurotransmission: Coupling Exocytosis and Compensatory Endocytosis
Session Chair: Stephane Gasman, France

S35-01 Molecular Mechanisms of synaptic vesicle membrane retrieval and reformation
Volker Haucke - Leibniz Institut für Molekulare Pharmakologie, Germany

S35-02 Modes of exo- and endocytosis in secretory cells
Ling-Gang Wu - NINDS, USA

S35-03 Divergent Synaptic Vesicle Cargo Retrieval During Intense Neuronal Activity
Michael Cousin - University of Edinburgh, United Kingdom

S35-04 Molecular connection between calcium-regulated exocytosis and compensatory endocytosis in neuroendocrine cells
Stephane Gasman - Cellular and Integrative neuroscience institute (INCI), France

MEETING PROGRAM / THURSDAY, AUGUST 27, 2015

14:30 - 16:30 Hall C

S36 Astrocyte Gliotransmission, Metabolism and Behavior
Session Chair: Robert Zorec, Slovenia
Session Co-Chair: Vladimir Parpura, USA

S36-01 The missing brain glutamate transporters: What we missed and how this changes our understanding of the excitable brain
David V. Pow - RMIT University, Australia

S36-02 Metabolic regulation of vesicular glutamate release from cultured astrocytes
Vladimir Parpura - University of Alabama at Birmigham, USA

S36-03 Monocarboxylate transporters and lactate receptor expression and function in the brain
Linda Hildegard Bergersen - University of Oslo, Norway

S36-04 Astrocytic modulation of sleep and wakefulness
Philip Haydon - Tufts University School of Medicine, USA

14:30 - 16:30 Hall D

S37 Long-distance Signaling in Control of the Transcriptomic and Proteomic Responses to Neuronal Injury
Session Chair: Michael R. Kreutz, Germany
Session Co-Chair: Elizabeth Coulson, Australia

S37-01 When synaptic proteins meet the genome - Protein transport from synapse to nucleus
Michael R. Kreutz - Leibniz Institute for Neurobiology, Germany

S37-02 Activity-dependent signaling and its role in metabolic and redox homeostasis
Giles Hardingham - University of Edinburgh, United Kingdom

S37-03 c-Jun N-terminal kinase regulates p75 internalization leading to retrograde axonal transport of apoptotic signalling endosomes
Francisca Bronfman - Catholic University Chile Faculty of Biological Sciences, Chile

S37-04 Disruption to long-range anterograde neurotrophin signalling in Alzheimer's disease
Elizabeth Coulson - The University of Queensland, Australia

16:30 - 17:00 Hall D

Focus Group 2 (sign up required)

MEETING PROGRAM / THURSDAY, AUGUST 27, 2015

17:00 - 18:00 **Hall A**

PL05 Plenary Lecture
Lawrie Austin Lecture **-** Iron in Alzheimer's disease and Parkinson's disease
Professor Ashley Bush - University of Melbourne, Australia
Welcome & Introductions: James Vickers, ANS President

19:00 - 23:00 **RainForeStation Nature Park (RSVP required)**

Farewell Celebration in the Rainforest

WTH POSTER SESSIONS / WEDNESDAY, AUGUST 26 AND THURSDAY, AUGUST 27, 2015

Poster presentation by authors between 12:30 - 14:30

WTH01 Glia (Part 2)

WTH01-01 Deficits in TH signalling as a possible mechanism underlying impaired myelination in the brain of growth restricted rat pups
Aminath Azhan - MIMR-PHI Institute of Medical Research, Australia

WTH01-02 Ethanol causes translocation of GLAST from cytoplasm to plasma membrane: the effect is blocked by baclofen
Vladimir Balcar - The University of Sydney, Australia

WTH01-03 PAK3 is implicated in the switch from oligodendrocyte precursor cells to differentiated oligodendrocytes
Lamia Bouslama-Oueghlani - Institut du cerveau et de la moelle épinière, France

WTH01-04 Genetic Knockout of Astrocyte LKB1: Implications for Glioma and Stem Cell Research
David Braun - University of Illinois at Chicago, USA

WTH01-05 Morphological Analysis of Microglial and Astrocyte Populations in the Superficial Dorsal Horn of Spinal Cord in Aged Mice
Sally Dickinson - University of Newcastle, Australia

WTH01-06 The anti-coagulant warfarin increases glial cell activation
Douglas Feinstein - University of Illinois, USA

WTH01-07 Calcium channel inhibitors limit lipid peroxidation and preserve myelin structure in nerve vulnerable to secondary degeneration
Lindy Fitzgerald - University of Western Australia, Australia

WTH01-08 Efficient derivation of myelinating oligodendrocytes from nkx2.1-gfp human embryonic stem cell reporter line
Min Kim - Monash University, Australia

WTH01-09 Developmental expression of GLT1d: a newly discovered and highly abundant glutamate transporter
Sean Klinkradt - RMIT University, Australia

WTH01-10 Hyaluronic acid regulates astrocytes shape via CD44 receptor
Anna Konopka - Nencki Institute of Experimental Biology Polish Academy of Science, Poland

WTH01-11 The alteration in differentiation pattern of oligodendrocytes contributed to disease pathogenesis of ALS.
Jacqueline Leung - University of Tasmania, Australia

WTH01-12 Pharmacological characterisation of new kainate receptor antagonits
Shahida Mallah - University of Bristol, United Kingdom

WTH01-13 Reelin, through its receptor ApoER2, regulates Schwann cell migration by activating Rac1; involvement of Tiam1 and Par3
Maria-Paz Marzolo Canales - Pontificia Univ Catolica Chile, Chile

WTH01-14 Signalling and crosstalk of AMPA/kainate, mGlu5 and $GABA_B$ receptors in oligodendrocyte precursor cells
Elek Molnar - University of Bristol, United Kingdom

WTH01-15 Characterising the relationship between TrkB and Fyn kinase: Critical mediators of BDNF's promyelinating effect on oligodendrocyte
Haley Peckham - University of Melbourne, Australia

WTH01-16 Expression of functional ionotropic glutamate and GABA receptors in astrocytes of the ventrobasal thalamus
Gerald Seifert - University of Bonn, Germany

WTH01-17 A novel subtype of astrocytes regulates neuronal excitability via release of gliotransmitters
Koji Shibasaki - Gunma University Graduate School of Medicine, Japan

WTH01-18 GFAP splice variant expression in the developing rodent brain
Susan Sullivan - The University of Queensland, Australia

WTH01-19 Sortilins and neuropathic pain following peripheral nerve injury
Christian Vaegter - Aarhus University, Denmark

WTH01-20 Role of microglia in mediating exercise-induced neurogenesis
Jana Vukovic - University of Queensland, Australia

WTH01-21 Understanding 'stress x microglial interactions' in stroke-induced secondary neurodegeneration: a major opportunity for the preser
Frederick R. Walker - , University of Newcastle$$ Faculty of Health and Medicine$$ Callaghan$$ Australia

WTH POSTER SESSIONS / WEDNESDAY, AUGUST 26 AND THURSDAY, AUGUST 27, 2015

Poster presentation by authors between 12:30 - 14:30

WTH02 Neurogenesis and Cell Differentiation (Part 2)

WTH02-01 Exposure to the antibiotic vancomycin modifies development of the enteric nervous system in early postnatal mice
Joel Bornstein - University of Melbourne, Australia

WTH02-02 Rho kinase inhibition promotes functional improvement following traumatic brain injury
Nicole Bye - The University of Melbourne, Australia

WTH02-03 Microbats have adult neurogenesis which appears to vary with the different foraging ecologies and evolutionary history
Richard Chawana - University of the witwatersrand, South Africa

WTH02-04 Differentiation of cortical neural precursor cells stimulated by direct current electrical field pulses
Ji-Yen Cheng - Academia Sinica Taiwan, Taiwan

WTH02-05 The association of the vitamin D receptor and nuclear matrix in a neuroblastoma line
Xiaoying Cui - The University of Queensland, Australia

WTH02-06 FMRP and dendritic local translation of αCaMKII mRNA are required for the structural plasticity underlying olfactory learning
Laura Daroles - Sorbonne universités, France

WTH02-07 The response of endogenous neural progenitor cells throughout the neuroaxis after a rat spinal cord contusion injury
Catherine Gorrie - University of Technology Sydney, Australia

WTH02-08 A Forward Genetic Screen for Mice with Defects in Neuronal Migration
Thomas Gstrein - Institute of Molecular Pathology, Austria

WTH02-09 Rbfox1, an autism causal gene, plays an essential role in cortical development
Nanako Hamada - Institute for Developmental Research, Japan

WTH02-10 Neurodevelopmental disorders and the PI3K/PTEN pathway; how some proteins are more equal than others
Jason Howitt - The University of Melbourne, Australia

WTH02-11 Cell proliferation in adult brains of three prosimian primates: Demidoff dwarf galago, potto and the ring-tailed lemur
Amadi Ihunwo - University of the Witwatersrand, South Africa

WTH02-12 Presence of distinct, stimulus-specific subpopulations of quiescent precursors in the adult mouse hippocampus
Dhanisha Jhaveri - The University of Queensland, Australia

WTH02-13 Stem cell activation and quiescence in the zebrafish brain
Jan Kaslin - Australian regnerative medicine institute, Australia

WTH02-14 Retinoic acid-induced neurodifferentiation of SH-SY5Y cells involves reactive species production and oxidative stress
Alice Kunzler - Universidade Federal do Rio Grande do Sul, Brazil

WTH02-15 The role of Ryk/Wnt signaling in the developing neocortex
Michael Langford - Queensland Brain Institute, Australia

WTH02-16 Dual effect of the Wnt receptor Ryk in the regulation of dendritogenesis
Vanessa Lanoue - QBI - The University of Queensland, Australia

WTH02-17 Role of Neuregulin-2 in synaptogenesis in newborn granule cells
Suk-Ho Lee - Seoul National Univ. College of Medicine, South Korea

WTH02-18 Nerve fibers infiltrate ovarian cancer and may be related to tumor aggressiveness
Sonia Oliveira - The University of Newcastle, Australia

WTH02-19 Neogenin regulates progenitor polarity and function in the developing mouse cortex
Conor O'Leary - Queensland Brain Institute, Australia

WTH02-20 Investigating the Role of the Netrin-1/RGMa Receptor Neogenin in Adult Hippocampal Neurogenesis
Loc Duyen Pham - University of Queensland, Australia

WTH02-21 Brain Glycohydrolases: involvement of GBA2 in the neuronal differentiation
Alessandro Prinetti - University of Milano, Italy

WTH POSTER SESSIONS / WEDNESDAY, AUGUST 26 AND THURSDAY, AUGUST 27, 2015

Poster presentation by authors between 12:30 - 14:30

WTH02-22 Hippocampal-dependent effects of environmental enrichment vs exercise in the serotonin 1A receptor knock-out mouse
Jake Rogers - The Florey Institute of Neuroscience & Mental Health, Australia

WTH02-23 Functional Diversification of Motor Neuron-specific Enhancers during Evolution
Mi-Ryoung Song - Gwangju Institute of Science and Technology, South Korea

WTH02-24 Lactucopicrin Potentiates Neuritogenesis and Neurotrophic Factor Secretion via regulating CaMKII/ ATF1
Ramu Venkatesan - Gachon University, South Korea

WTH02-25 The amyloid β precursor protein influences the survival of immature neurons in the olfactory bulb and hippocampus in vivo
Shiwei Wang - Menzies Research Institute Tasmania, Australia

WTH02-26 Regulation of proliferative activity by PAR-1 in neural stem/progenitor cells derived from the adult hippocampal dentate gyrus
Shinjiro Yamamura - Setsunan university, Japan

WTH02-27 Regulation of proliferation by nitric oxide in neural stem/progenitor cells generated after granule cell loss in the dentate gyrus
Masanori Yoneyama - Setsunan University, Japan

WTH03 Brain Bioenergetics

WTH03-01 Xenoestrogen Bisphenol-A induced Drp-1 dependent impaired mitochondrial dynamics and autophagy in the rat brain
Swati Agarwal - CSIR-Indian Institute of Toxicology and Research, India

WTH03-02 Modulation of astrocytic glucose metabolism by the antidiabetic drug metformin
Igor Allaman - Ecole Polytechnique Federale de Lausanne, Switzerland

WTH03-03 Bardoxolone methyl prevents high fat diet-induced impairments to hypothalamic leptin signalling in mice
Danielle Camer - University of Wollongong, Australia

WTH03-04 Impact of maternal smoking on brain mitophagy in new born male mice offspring
Yik Lung Chan - University of Technology, Australia

WTH03-05 Paraventricular NUCB2/nesfatin-1 regulates feeding behavior and mediates anorexigenic effect of leptin
Darambazar Gantulga - National University of Medical Sciences, Mongolia

WTH03-06 Brain Energy Metabolism alterations in experimental model of hepatic encephalopathy induced by partial hepatectomy
Pedro Guazzelli - Federal University of Rio Grande do Sul, Brazil

WTH03-07 Glutamate oxidation in cerebellar neurons requires the enzyme glutamate dehydrogenase
Michaela Hohnholt - University of Copenhagen, Denmark

WTH03-08 Exercise and High-Fat Diet can Recover Altered levels of Aging-Related Metabolites of the Kynurenine Pathway
Keun-Hwa Jung - Seoul National University Hospital, South Korea

WTH03-09 Wolfram syndrome: from ER stress to mitophagy and delayed neuronal development
Allen Kaasik - University of Tartu, Estonia

WTH03-10 Circumventing the Crabtree Effect: In vitro lactate utilization induces heightened sensitivity to the mitochondrial toxin rotenone
Alexandra Mot - University of Melbourne, Australia

WTH03-11 Mitochondrial respiration of postnatal mice neocortex submitted to prenatal valproic acid treatment
Marissol Pereira - UFRJ, Brazil

WTH03-12 NAD^+, NAD^+ recycling and brain metabolism
Caroline Rae - The University of New South Wales, Australia

WTH03-13 Understanding brainpower: Compartmentalized signaling controls astrocyte energy metabolism
Ann-Kathrin Reuschlein - University of Copenhagen, Denmark

WTH POSTER SESSIONS / WEDNESDAY, AUGUST 26 AND THURSDAY, AUGUST 27, 2015

Poster presentation by authors between 12:30 - 14:30

WTH03-14 Silent information regulator 2 may significantly modulate acetate and glucose metabolism
Benjamin Rowlands - Neuroscience Research Australia, Australia

WTH03-15 Energy metabolism in the rat cortex under deep thiopental anesthesia measured in vivo by 13C MRS at 14.1 T
Sarah Sonnay - Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland

WTH03-16 Defects in mitochondrial biogenesis at rostral ventrolateral medulla on neurogenic hypertension induced by systemic inflammation
Kay Wu - Center for Translational Research in Biomedical Sciences, Taiwan

WTH04 Neuroimmunology

WTH04-01 Nogo-receptor 1 expression on B-cell populations in the central nervous system during experimental autoimmune encephalomyelitis
Maha Bakhuraysah - Monash University, Australia

WTH04-02 One or two bands? Question for IgM oligoclonal bands in confirmed Multiple Sclerosis
Anne Boullerne - University of Chicago at Illinois, USA

WTH04-03 Antibodies to surface dopamine-2 receptor and N-methyl-D-aspartate receptor in the first episode of acute psychosis in children
Fabienne Brilot - University of Sydney, Australia

WTH04-04 Is the adaptive immune response detrimental in TBI?
Maria Daglas - Monash University, Australia

WTH04-05 Novel mouse model of endometriosis permits identification of spinal glia and nociception characteristics involved in pelvic pain
Kelsi Dodds - University of Adelaide, Australia

WTH04-06 Does the plasminogen activating system contribute to immunosuppression after traumatic brain injury?
Dominik Draxler - Monash University, Australia

WTH04-07 Metabolic connection of inflammatory pain: pivotal role of a pyruvate dehydrogenase kinase-lactic acid axis
Mithilesh Jha - Brain Science & Engineering Institute, South Korea

WTH04-08 Anti-MuSK myasthenia gravis: synapse loss due to blockade of tyrosine kinase signalling?
William Phillips - University of Sydney, Australia

WTH04-09 Sickness responses following simulated 'typical' or 'atypical' central bacterial infection
Mariam Sabbar - University of the Witwatersrand, South Africa

WTH04-10 Analysis of the binding specificity of antibody to dopamine-2 receptor in autoimmune movement and psychiatric disorders
Nese Sinmaz - Neuroimmunology Group, Australia

WTH04-11 How Multiple sclerosis patient's lymphocytes crosstalk with microglial cells impacts the remyelination process
Violetta Zujovic - ICM -CNRS UMR 7225 - Inserm U 1127 - UPMC - P6 UMR S 1127, France

WTH05 Cellular Mechanism of Alzheimer's Disease

WTH05-01 Propagation of tau phosphorylation following localised PP2A inhibition in wild-type mice
Sian Louise Baker - Queensland Brain Institute, Australia

WTH05-02 Deferasirox attenuates iron induced amyloid beta accumulation and toxicity in aged rat brain: therapeutic implications in AD
Priyanjalee Banerjee - Institute of Post Graduate Medical Education & Research, India

WTH05-03 Correlating membrane binding and toxicity of synthetically prepared amyloid beta peptide mutants (Q15A, K16A, K28A)
Giuseppe Ciccotosto - The University of Melbourne, Australia

WTH05-04 Novel Metallothionein (II)-based peptides as potential therapeutics for Alzheimer's disease
Emma Eaton - University of Tasmania, Australia

WTH POSTER SESSIONS / WEDNESDAY, AUGUST 26 AND THURSDAY, AUGUST 27, 2015

Poster presentation by authors between 12:30 - 14:30

WTH05-05 GSK-3 interacts with lysosomal networking and contributes to neurodegeneration
Hagit Eldar-Finkelman - Tel Aviv University, Israel

WTH05-06 Alzheimer's disease tau pathology found in cholinergic, but not dopaminergic neurons differentiated from patient stem cells
Martin Engel - University of Wollongong, Australia

WTH05-07 Neurofilament light gene deletion exacerbates Alzheimer's disease pathology in the APP/PS1 mice
Carmen Fernandez-Martos - University of Tasmania, Australia

WTH05-08 Regulation of the endolysosomal pathway by Beclin-1 and its role in the proteolytic processing of the amyloid precursor protein.
Alexis Gonzalez - Austral University of Chile, Chile

WTH05-09 Does epothilone D protect against amyloid and axon pathology in a mouse model of Alzheimer's disease
Kelsey Hanson - University of Tasmania, Australia

WTH05-10 Reduced CA1 action potential firing in the rTg4510 mouse model of tauopathy due to abnormal activity at the axon initial segment
Robert Hatch - The Queensland Brain Institute, Australia

WTH05-11 Reduction of ROCK1 in human brain with Alzheimer's disease
Yue Huang - University of New South Wales, Australia

WTH05-12 Histone deacetylase mediates drebrin loss from dendritic spines induced by amyloid beta oligomers
Yuta Ishizuka - Gunma University Graduate School of Medicine, Japan

WTH05-13 Identifying the Toxicity, Biochemical and Biophysical Properties of Purified Aβ Oligomers
Metta Jana - University of Melbourne, Australia

WTH05-14 Elevated glucose levels enhance pro-inflammatory responses of astrocytes and increase vulnerability of neurons to toxic insults
Andis Klegeris - University of British Columbia Okanagan Campus, Canada

WTH05-15 Effects of Scanning Focused Ultrasound in an Alzheimer's Mouse Model
Gerhard Leinenga - The University of Queensland, Australia

WTH05-16 Effect of global brain ischeima after cardiac arrest oin producing the hallmarks of Alzheimer's disease.
Shohreh Majd - The Flinders University of South Australia, Australia

WTH05-17 Tau Phosphorylation is Enhanced Following Lysosomal Acid Ceramidase Inhibition in Rat Hippocampal Slices
Guy Massicotte - Université du Québec (Trois-Rivières), Canada

WTH05-18 Amyloid precursor protein differentially regulates expression of neuronal genes involved in amyloid clearance
Natalia Nalivaeva - School of Molecular and Cellular Biology, United Kingdom

WTH05-19 Machine-learning alternative to thresholds for segmenting fluorescent amyloid-β images in an Alzheimer's disease mouse model
Aidan O'Mara - University of Tasmania, Australia

WTH05-20 Selective alteration of mitochondria membrane potential in glutamatergic terminals in an in vitro model of early Alzheimer's disea
Carlos Palmeira - University of Coimbra, Portugal

WTH05-21 Protective effect of N-acetyl cysteine, a glutathione precursor against ICV streptozotocin-induced alzheimer rat model
Atish Prakash - Universiti Teknologi MARA (UiTM), Malaysia

WTH05-22 Apolipoprotein E and Amyloid β Expression during Differentiation of Induced Pluripotent Stem Cells in Alzheimer´s Disease
Sonia Sanz Muñoz - University of Wollongong, Australia

WTH05-23 Induction of Tau pathology in a P301S mutant tau transgenic mouse model
Lisa Suh - University of New South Wales, Australia

WTH05-24 Scanning ultrasound opens blood-brain barrier and improves pathologic abnormalities and behaviour in a mouse model of Alzheimer's
Ann Van der Jeugd - University of Queensland, Australia

WTH POSTER SESSIONS / WEDNESDAY, AUGUST 26 AND THURSDAY, AUGUST 27, 2015

Poster presentation by authors between 12:30 - 14:30

WTH06 Therapeutic Approaches of Parkinson's Disease

WTH06-01 Differences in number of human midbrain dopamine neurons associated with summer and winter photoperiods
Tim Aumann - Florey Institute of Neuroscience and Mental Health, Australia

WTH06-02 Neuroprotection against Parkinson's disease with near infrared light
Dan Johnstone - University of Sydney, Australia

WTH06-03 Effective delivery of dopamine to brain using PEGylated immunoliposome in Parkinson's disease animal model
Hyunjoo Jung - Sookmyung Women's University, South Korea

WTH06-04 Small molecule PKD1 activator protects progressive nigral dopaminergic neuronal degeneration in the Mitopark animal model of PD
Anumantha Kanthasamy - Iowa State University, USA

WTH06-05 New therapeutic strategies in Parkinson's disease: the transcription factor NRF2 as a target for dimethyl fumarate
Isabel Lastres-Becker - Universidad Autónoma de Madrid, Spain

WTH06-06 Pharmacological Inhibition of LRRK2 Blocks Alpha-Synuclein Induced Neurodegeneration in Rats
Joao Paulo Lima Daher - The University of New South Wales, Australia

WTH06-08 Dopamine loaded PLGA nanoparticles ameliorate the functional recovery in parkinsonian rats
Richa Pahuja - CSIR- Institute of Genomics and Integrative Biology, India

WTH06-09 Thiol repletion therapy in animal and human studies of Parkinsons disease
Giordano Santos - University California of San Francisco, USA

WTH06-10 Nimodipine attenuates mitochondrial dysfunctions and altered calcium dynamics to protect against experimental Parkinsonism in mice
Alpana Singh - Indian Institute of Chemical Biology Kolkata, India

WTH06-11 Preclinical evaluation of Tecfidera (Dimethylfumarate) in Parkinson's disease: Are we ready for repurposing?
Bobby Thomas - Medical College of Georgia, USA

WTH07 Myelination and Demyelination

WTH07-01 Autoantibody mediated CNS myelin morphology in the acute phase of experimental autoimmune encephalomyelitis
Yoshio Bando - Asahikawa Medical University, Japan

WTH07-02 Role of astroglial Methyl-CpG-binding protein 2 in Central Nervous System myelination
Lipi Buch - The Maharaja Sayajirao University of Baroda, India

WTH07-03 Role of Bone Morphogenic Protein Signalling in Oligodendrocyte Differentiation and Myelination
Alistair Cole - University of Melbourne, Australia

WTH07-04 HFE Genotype and a Formulated Diet Controlling for Iron Deficiency Attenuate Cerebral Malaria in Mice
James Connor - Penn State University, USA

WTH07-05 Polymorphism in IL7Ra gene in asoociation with mutiple sclerosis in Slovak population
Dusan Dobrota - Comenius University, Slovakia

WTH07-06 Central nervous system immune cell profiling in a model of chronic experimental autoimmune encephalomyelitis
Sam Duffy - University of New South Wales, Australia

WTH07-07 Modeling and treatment of the novel white-matter disorder HBSL
Dominik Froehlich - University of New South Wales, Australia

WTH07-08 A novel small molecule neurotrophin-based strategy for treating demyelinating diseases
David Gonsalvez - The University of Melbourne, Australia

WTH07-09 Oligodendrocyte generation in the normal and injured forebrain of adult zebrafish
Hwan-Ki Kim - Korea University Ansan Hospital, South Korea

WTH POSTER SESSIONS / WEDNESDAY, AUGUST 26 AND THURSDAY, AUGUST 27, 2015

Poster presentation by authors between 12:30 - 14:30

WTH07-10 The role of myelinating glia in zebrafish model of amyotrophic lateral sclerosis
Suhyun Kim - Korea university, South Korea

WTH07-11 Analysis of neuronal responses against disruption of neuro-glial interaction and its effect on brain functions
Kazuo Kunisawa - Graduate University for Advanced Studies (SOKENDAI), Japan

WTH07-12 The consequence of dysfunctional myelin on neural processing
Kathleen Maheras - Wayne State University, USA

WTH07-13 Therapeutic use of MicroRNA mimics to promote remyelination in viral encephalomyelitis
Ana Lis Moyano - University of Illinois, USA

WTH07-14 iPS-Derived Neural Precursors Outcompete Endogenous Cells for CNS Remyelination
Sabah Mozafari - Sorbonne Universités UPMC, France

WTH07-15 Nogo receptor 1 regulates axo-glial units in the central nervous system
Steven Petratos - Monash University, Australia

WTH07-16 The role of the Transient Receptor Potential Ankyrin 1 (TRPA1) receptors in the cuprizone-induced demyelinization model
Erika Pinter - Unversity of Pecs, Hungary

WTH07-17 Neuroanatomical and Neurodevelopmental White Matter Differences between Rat Strains with Differing Vulnerability to Epileptogenes
Pragati Sharma - The Royal Melbourne Hospital, Australia

WTH07-18 Signaling Pathways Controlling CNS Myelin Compaction in Gain of Function Rasopathies
Haley Titus-Mitchell - Cincinnati Children's Hospital Medical Center, USA

WTH07-19 Investigating the role of Amyloid Precursor Protein in axonal myelination and remyelination using the Cuprizone Model
Phan Truong - The University of Melbourne, Australia

WTH07-20 Targeting oligodendrocytes in rAAV mediated gene replacement therapy for Canavan Disease
Georg Von Jonquieres - Translational Neuroscience Facility UNSW, Australia

WTH07-21 Highly efficient conditional ablation of oligodendrocyte progenitor cells (NG2 glia) in mice
Yao Xing - University of Melbourne, Australia

WTH07-22 Adhesion properties mediated by PKC-dependent phosphorylation are different between myelin P0 and its readthrough isoform L-MPZ
Yoshihide Yamaguchi - Tokyo University of Pharmacy and Life Sciences, Japan

WTH07-23 GlcNAc6ST-1 regulates sulfation of N-glycans and myelination in the peripheral nervous system
Takeshi Yoshimura - National Institute for Physiological Sciences, Japan

WTH08 Ischemia and Oxidative Stress

WTH08-01 Effect of mild Traumatic Brain Injury on brain functional outcome in Rats
Hui Chen - University of Technology Sydney, Australia

WTH08-02 Dynamic alterations in VEGF receptor 3 expression following hypoxic-ischaemic injury in neonatal rat brain
Anne Cunningham - University of New South Wales, Australia

WTH08-03 Minocycline treatment increases peri-infarct astrocytic responses and functional recovery following photothrombotic stroke
Natalia Djukic - Flinders University, Australia

WTH08-04 Spatiotemporal delineation of a cerebral photothrombotic infarct in mouse using darkfield microscopy
Nagarajesh Gorlamandala - UNSW Australia, Australia

WTH08-05 LIF Haplodeficient Mice Are More Vulnerable to Injury and Sustain Greater Sensorimotor Deficits After Perinatal Brain Injury
Mariano Guardia Clausi - Rutgers, USA

WTH08-06 Decreased orexin (hypocretin) in the hypothalamus/pons after hypoxic insults in a piglet model and Sudden Infant Death Syndrome
Nicholas Hunt - University of Sydney, Australia

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Poster presentation by authors between 12:30 - 14:30

WTH08-07 Progranulin: a vascular stabilising agent with therapeutic potential for the treatment of stroke.
Katherine Jackman - The Florey Institute of Neuroscience and Mental Health, Australia

WTH08-08 Hypoxic postconditioning protects against long-term deficits in a neonatal rat model of hypoxic-ischemic brain injury
Nicole Jones - UNSW Australia, Australia

WTH08-09 Plasma Lipid Peroxides Level in Schizophrenia Patients
Sagar Lavania - Sarojini Naidu Medical College, India

WTH08-10 Nrf2 is required for pyrrolidine dithiocarbamate-mediated defensive action in astrocytes
Jeffrey Liddell - University of Melbourne, Australia

WTH08-11 Lead exposure in early life and its long term effects on retinal degeneration in mouse model of retinal Ischemia
Shweta Modgil - Post Graduate Institute of Medical Education and Research, India

WTH08-12 The effects of hypoxic postconditioning in a rat model of endothelin-1 induced middle cerebral ischemia
Hong L Nguyen - UNSW, Australia

WTH08-13 Mouse photothrombotic cerebellar infarct evaluated using magnetic resonance imaging and histology
Jasneet Parmar - UNSW Australia, Australia

WTH08-14 Complement peptide C3a promotes astrocyte survival in response to ischemic stress
Marcela Pekna - University of Gothenburg, Sweden

WTH08-15 Ischaemia-Induced Neuronal Cell Death is Mediated by Molecular Targeting of CaMKII Phosphorylated at T253
John Rostas - University of Newcastle, Australia

WTH08-16 Neuroprotective effect of a combination of baicalin and catechin: evidences from rat model of transient global cerebral ischemia
Dhirendra Singh - National Agri-food Biotechnology institute, India

WTH08-17 Neonatal hypoxic-ischaemic brain injury is more severe in offspring of obese versus lean female rats
Jonathan Teo - UNSW Australia, Australia

WTH08-18 Ephrin-A1 through EphA4 is responsible for reduced astrogliosis in the infant primate neocortex following ischemic stroke
Leon Teo - Australian Regenerative Medicine Institute, Australia

WTH08-19 Measuring Glutathione in the Human Brain: A Comparison of Methods for 3T MRS
Stephen Williams - University of Manchester, United Kingdom

WTH08-20 Disruption of ion-trafficking system in the cochlear spiral ligament fibrocytes prior to permanent hearing loss induced by intense
Taro Yamaguchi - Setsunan university, Japan

WTH08-21 Human placenta stem cells secrete IL-6 and VEGF and prevent death in PC12 cells after glucose- and oxygen deprivation
Ephraim Yavin - Weizmann Institute of Science, Israel

WTH08-22 Early post-stroke treatment with minocycline promotes functional recovery without modulating key aspects of microglial activation
Wai-Ping Yew - Flinders University, Australia

WTH08-24 Abnormal Glutathione Pathway in Postmortem Dorsolateral Prefrontal Cortex from People with Schizophrenia
Yiru Zhang - Neuroscience Research Australia, Australia

WTH08-25 Hemodynamics and vascular plasticity but neuronal degeneration after chronic cerebral hypoperfusion
Lihui Zhu - Jinan University, China

WTH08-26 Long-lasting motor improvement following neural transplantation in athymic rats with ischemic brain injury
Fahad Somaa - Florey institute. University of Melbourne, Australia

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WTH09 Synaptic Plasticity

WTH09-02 BDNF signaling recruits metabolic and plasticity signals to counteract the pathobiology of TBI: A study of TrkB agonist 7,8-DHF
Rahul Agrawal - University of Utah, USA

WTH09-03 Mechanisms of action of repetitive transcranial magnetic stimulation upon motor learning - an in vivo imaging approach
Bill Bennett - University of Tasmania, Australia

WTH09-04 Reverberating cell assemblies in the amygdala
Madhusoothanan Bhagavathi Perumal - Queensland Brain Institute, Australia

WTH09-05 Functional interplay between 5-HT7R, MMP-9 and CD44 in the regulation of neuronal plasticity
Monika Bijata - Nencki Institute, Poland

WTH09-06 Translational control of mGluR-dependent long-term depression and object-place learning by eIF2α
Shelly Buffington - Baylor College of Medicine, USA

WTH09-07 Neurons specifically activated in auditory fear learning
Chris Butler - University of Melbourne, Australia

WTH09-08 Chronic Intermittent Toluene Inhalation During Adolescence Results In Glutamatergic Dysfunction In Corticostriatal Processing
Jhodie Duncan - Florey Institute of Neuroscience and Mental Health, Australia

WTH09-09 Secreted amyloid precursor protein alpha regulates protein synthesis in primary hippocampal neuronal cultures
Megan Elder - University of Otago, New Zealand

WTH09-10 Does depolarization-induced reprogramming of the presynaptic phosphoproteome mediate changes in neurotransmitter release?
Kasper Engholm-Keller - Children's Medical Research Institute, Australia

WTH09-12 Dorsal medial prefrontal cortex contributes to conditioned taste aversion memory consolidation and retrieval
Carolina Gonzalez - Memory Research Laboratory, Brazil

WTH09-13 Does memory retrieval depend on precise synaptic organization?
Agnes Gruart - Pablo de Olavide University, Spain

WTH09-14 Role of RyR2-mediated calcium release in synaptic plasticity, learning and memory in control and AD-model rats
Cecilia HIDALGO - Universidad de Chile, Chile

WTH09-15 The role of action potential firing in metaplasticity
Regina Hegemann - University of Otago, New Zealand

WTH09-16 Serotonin - more than a neurotransmitter: impact of serotonylation of extracellular matrix proteins on neuronal plasticity
René Hummerich - Central Institute of Mental Health, Germany

WTH09-17 Activity-dependent nuclear import and association of Jacob with nuclear compartments
Anna Karpova - Leibniz Institute for Neurobiology, Germany

WTH09-18 Early BDNF/c-Fos cascade in the retrosplenial cortex is required for the persistence of a long-lasting aversive memory
Cynthia Katche - Facultad de Medicina - UBA - CONICET, Argentina

WTH09-19 Regulation of HDAC1 and HDAC2 following Long-Term Potentiation
Madeleine Kyrke-Smith - University of Otago, New Zealand

WTH09-20 Stem cell-derived serotonergic neurons: an in-vitro model for volume transmission and maintenance of serotonergic neuroplasticity
Thorsten Lau - Central Institute of Mental Health, Germany

WTH09-21 Role of 3'UTR polymorphism of MMP-9 in its regulation and local translation
Katarzyna Lepeta - Nencki Institute of Experimental Biology Polish Academy of Sciences, Poland

WTH09-22 Mild traumatic brain injury results in impairments of hippocampal synaptic plasticity and acute cognitive deficits in mice
Linda Marschner - University of Copenhagen, Denmark

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WTH09-23 HtrA1 - novel stress-regulated protease in mouse limbic system
Mariusz Mucha - University of Exeter , United Kingdom

WTH09-24 Seizure-related gene 6 (Sez6) family proteins regulate excitatory synapses with effects on learning and memory
Kathryn Munro - The University of Melbourne, Australia

WTH09-25 Transient effect of X-irradiation and Carbon ion-irradiation on synaptic function
Anggraeini Puspitasari - Gunma University Graduate School of Medicine, Japan

WTH09-26 The spinal cord that changes itself: spontaneous recovery of interneurons after incomplete spinal cord injury
Michelle Rank - University of Newcastle, Australia

WTH09-27 The extracellular matrix affects surface expression of GluN2B containing NMDA receptors
Barbara Schweitzer - LIN Magdeburg, Germany

WTH09-28 G9a governs mGluR-LTD by regulating NSF/GluR2 dependent trafficking of postsynaptic AMPA receptors
Mahima Sharma - YLL School of Medicine, Singapore

WTH09-29 Functional deficit of IQSEC2, a known intellectual disability gene, disrupts normal dendritic spine morphogenesis
Cheryl Shoubridge - Robinson Research Institute, Australia

WTH09-30 EGF downregulates presynaptic maturation and suppresses synapse formation in vitro and in vivo
Nobuyuki Takei - Brain Research Institute, Japan

WTH09-31 The activity of caspase-3 is essential for development of brain cortex in rats exposed to prenatal stress
Dmitrii Vasilev - I.M. Sechenov Institute of Evolutionary Physiology & Biochemistry, Russia

WTH09-32 Paternal environmental enrichment has no transgenerational effect on offspring spatial memory
Shlomo Yeshurun - Florey Institute of Neuroscience and Mental Health, Australia

WTH09-33 Teasaponin improves leptin sensitivity in the prefrontal cortex of obese mice
Yinghua Yu - University of Wollongong, Australia

WTH09-34 Plastic changes of the early spinal cord in mice with the genetic absence of corticospinal tract
Libing Zhou - Guangdong-Hongkong-Macao Institute of CNS Regeneration, China

WTH10 Neuronal Polarity

WTH10-01 Manipulation of the actin cytoskeleton promotes neurite outgrowth on inhibitory substrates
Thomas Fath - University of New South Wales, Australia

WTH10-02 Contribution of NADPH oxidase (NOX) to the establishment of hippocampal neuronal polarity
Christian Gonzalez-Billault - Universidad de Chile, Chile

WTH10-03 Slow axonal growth of human iPSCs-derived neurons
Noriko Koganezawa - Gunma University Graduate School of Medicine, Japan

WTH10-04 The interaction of calcium signalling and the cytoskeleton in navigating growth cones
Macarena Pavez - University of Tasmania, Australia

WTH10-05 Regulation of Alcadeinα association with kinesin-1 by phosphorylation of the cytoplasmic region
Yuriko Sobu - Hokkaido University, Japan

WTH10-06 Regulation of dendritogenesis by IMP1 depends on its phosphorylation at Ser181
Anna Urbanska - International Institute of Molecular and Cell Biology in Warsaw, Poland

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WTH11 Animal Model of Neuropsychiatric Disorders (Part 2)

WTH11-01 Developmental Vitamin D Deficient Rat Model of Autism Spectrum Disorder
Asad Ali - University of Queensland Australia, Australia

WTH11-02 The influence of pharmacogenetic excitation of vlPAG on Pavlovian fear conditioning
Carolyn Arico - University of New South Wales, Australia

WTH11-03 Differential cognitive and behavioural impacts of LPS and PolyI:C prenatal infections on adult female offspring
Chris Bell - University of Wollongong, Australia

WTH11-04 Methylmercury exposure induces oxidative stress, impairs social interaction and affects the behavior of Drosophila melanogaster
Ved Chauhan - NYS Institute for Basic Research in Developmental Disabilities, USA

WTH11-05 Modelling white matter neuron pathology in schizophrenia using maternal immune activation
Ryan Duchatel - The University of Newcastle, Australia

WTH11-06 Rapid modulation of neuronal voltage-gated calcium channels by vitamin D
Helen Gooch - Queensland Brain Institute, Australia

WTH11-07 Examination of mismatch negativity, oscillatory activity and related neurochemistry in a developmental rat model of schizophrenia
Lauren Harms - University of Newcastle, Australia

WTH11-08 Neurobiological mechanisms linking obesity and depression
Kyoko Hasebe - Deakin University, Australia

WTH11-09 Broadband local field potential characteristics in rat cingulate cortex are predictive of high-effort, goal-directed behaviour
Kristin Hillman - University of Otago, New Zealand

WTH11-10 Maternal separation alters glucocorticoid signaling in the nucleus accumbens of female mice
Joan Holgate - Queensland University of Technology, Australia

WTH11-11 Prenatal infection promotes olanzapine-induced obesity in rats: Implications for antipsychotic-induced obesity in schizophrenia
Xu-Feng Huang - University of Wollongong, Australia

WTH11-12 Predatory stress elicits anxiety- and depressive-like behaviours in mice
Trisha Jenkins - Royal Melbourne Institute of Technology (RMIT), Australia

WTH11-13 Effects of optogenetic stimulation of lateral versus ventrolateral periaqueductal gray on fear expression and fear learning
Gavan McNally - University of New South Wales, Australia

WTH11-14 Maternal immune activation at two gestational time-points: Examination of schizophrenia-related behavioural phenotypes in the rat
Crystal Meehan - University of Newcastle, Australia

WTH11-15 Proteomic analysis of rat saliva proteins for restraint stress biomarkers
Satoru Oshiro - Division of Cell Biology, Japan

WTH11-17 Chronic cannula implantation into the cerebral lateral ventricle does not impair spatial or recognition memory
Ben Seyer - Monash University, Australia

WTH11-18 Analysis of mGlu5/Homer signalling complex in rodent neurons knock out for SHANK3 and in SHANK3 exon11 KO mice
Cinzia Vicidomini - CNR, Italy

WTH11-19 Effect of a novel cognitive enhancer on decreased CaMKII activity in schizophrenia model rats
Yasushi Yabuki - Tohoku University, Japan

WTH11-20 Role of ProBDNF in the rodent model of depression
Xin-Fu Zhou - University of South Australia, Australia

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WTH12 Molecular Mechanism of Alzheimer's Disease

WTH12-01 Quantifying the impact of iron in Alzheimer's disease
Scott Ayton - University of Melbourne, Australia

WTH12-02 Intrahippocampal delivery of lineage negative stem cells in reversal of memory impairment in amyloid-β injected mice
Avijit Banik - Postgraduate Institute of Medical Education and Research, India

WTH12-03 Energy metabolism and the progression to dementia in Down syndrome and Alzheimer disease
Jorge Busciglio - Univ Calfifornia Irvine, USA

WTH12-04 Enhancing Trk mediated trophic signalling to augment cognitive processes
Marie lou Camara - University of Queensland, Australia

WTH12-05 Hippocampal adenosine A2A receptor up-regulation is necessary and sufficient to trigger memory dysfunction in Alzheimer's disease
Rodrigo Cunha - University of Coimbra, Portugal

WTH12-06 Loss of ceramide synthase 2, an essential enzyme for myelin lipid biosynthesis, drives myelin degeneration in Alzheimer's Disease
Anthony Don - University of New South Wales, Australia

WTH12-07 The influence of Amyloid-β precursor protein proteolytic processing on neuronal iron homeostasis
James Duce - University of Leeds, United Kingdom

WTH12-08 PP2A methylation plays a critical role in cAMP/PKA-dependent regulation of tau and neurite outgrowth
Alexander Hoffman - University of Newcastle, Australia

WTH12-09 p38 MAP kinase-mediated NMDA receptor-dependent suppression of hypersynchronicity in a mouse model of Alzheimer's disease
Arne Ittner - UNSW Australia, Australia

WTH12-10 Short chain ceramides, associated with insulin resistance, increase with age in the human hippocampus
Nupur Kain - Lowy Cancer Research Centre, Australia

WTH12-11 a molecular mechanism of shifting the cleavage site of app by bace1
Ayano Kimura - Hokkaido University, Japan

WTH12-12 Transcriptome analyses using human and zebrafish brain data reveal hypoxia as an important element in Alzheimer's disease
Michael Lardelli - University of Adelaide, Australia

WTH12-13 The PI3K/Akt/GSK3β Pathway is not involved in early Alzheimer's disease
Julia Lim - Charles Perkins Centre, Australia

WTH12-14 D-serine levels in Alzheimer's disease: Implications for novel biomarker development
Mychael Lourenco - Federal University of Rio de Janeiro, Brazil

WTH12-15 Developing an animal model of global brain ischemia through cardiac arrest.
Shohreh Majd - The Flinders University of South Australia, Australia

WTH12-16 Uperin 3.5: a membrane active, amyloid forming, antimicrobial peptide
Lisandra Martin - Monash University, Australia

WTH12-17 Synaptosomal bioenergetic defects are associated with cognitive impairments in a transgenic rat model of early Alzheimer's disease
Pamela Martino Adami - Fundación Instituto Leloir-IIBBA CONICET, Argentina

WTH12-18 The influence of chronic nicotine treatment on proteins expressed in the mouse hippocampus and cortex
Kenji Matsuura - Himeji Dokkyo University, Japan

WTH12-19 The Amyloid-beta-dependent phosphorylation of CRMP-2 dissociates kinesin in Alzheimer's disease
Sara Mokhtar - Monash University, Australia

WTH12-20 Impact of the transcription factor NRF2 on TAU and β-amyloid pathology in a combined mouse model of Alzheimer's Disease
Marta Pajares - Instituto de Investigaciones Biomédicas Alberto Sols (CSIC-UAM), Spain

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WTH12-21 Melatonin regulates the expression of amyloid precursor protein (APP) secretases in human neuroblastoma SH-SY5Y cell line
Jiraporn Panmanee - Institution of Molecular Biosciences, Thailand

WTH12-22 Imaging mass spectrometry (IMS) of cortical lipids from preclinical to severe stages of Alzheimer's disease
Rafael Rodriguez-Puertas - University of the Basque Country, Spain

WTH12-23 Distinct microRNA Expression In A Transgenic Mouse Model Of Alzheimer's Disease
Margaret Ryan - University of Otago, New Zealand

WTH12-24 Kinesin-1 cargo receptor APP and Alcadeinα transport different type of vesicular cargo to the axonal terminal
Yuzuha Shiraki - Hokkaido University, Japan

WTH12-25 Zinc modulates tau phosphorylation, APP activity and cognitive dysfunction in aluminium induced neurodegeneration
Neha Singla - PANJAB UNIVERSITY, India

WTH12-26 Novel mechanisms of c-Src kinase-dependent regulation of PP2A: Implications for tauopathies
Jean-Marie Sontag - University of Newcastle, Australia

WTH12-27 Regulation of axonal transport of APP cargos by kinesin-1
Toshiharu Suzuki - Hokkaido University, Japan

WTH12-28 Delineating the specific binding pattern of exogenously administered Abeta42 to organotypic whole brain slices
Marsha Tan - University of Melbourne, Australia

WTH12-29 Characterisation of a novel P301S mutant tau transgenic mouse model
Janet Van Eersel - University of New South Wales, Australia

WTH13 Neurodegenerative Disease (Part 2)

WTH13-01 Does Nogo-Receptor 1 (Ngr1) play a Role in Microglial Activity within Neuroinflammatory Lesions?
Amani Alrehaili - Monash University, Australia

WTH13-02 Effect of gene polymorphism of interleukin 6 in patients with Alzheimer's diseas
Eva Babusikova - Comenius University in Bratislava, Slovakia

WTH13-03 Low-dose enzyme replacement therapy reduces brain pathology in a neurodegenerative lysosomal disorder
Helen Beard - SAHMRI, Australia

WTH13-04 Pharmacological Chaperones for Dopamine Transporter Deficiency Syndrome
Pieter Beerepoot - University of Toronto, Canada

WTH13-05 A novel and personalised approach to treating multiple sclerosis using patient-specific induced pluripotent stem cells
Claude Bernard - Monash University, Australia

WTH13-06 Atorvastatin prevents cell death and depressive-like behaviour induced by Aβ1-40 peptide via BDNF Cleavage
Luisa Bandeira Binder - Universidade Federal de Santa Catarina, Brazil

WTH13-07 Axon Stretch Growth of adult primary motor neurons
Malcolm Brinn - University of Adelaide, Australia

WTH13-08 Drp1 plays critical roles in the neurodegeneration of motoneurons in cellular and animal models of ALS
So Yoen Choi - Korea University, South Korea

WTH13-09 The microtubule stabilising agent Epothilone D modifies disease progression in a mouse model of Amyotrophic Lateral Sclerosis
Jayden Clark - University of Tasmania, Australia

WTH13-10 Learning and neurogenesis are improved with exercise after an endothelin-1-induced hippocampal stroke in adult mouse
Lavinia Codd - Queensland Brain Institute, Australia

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WTH13-11 Immune suppression leads to arginine deprivation in a mouse model of Alzheimer's disease
Carol Colton - Duke University, USA

WTH13-12 Interneuron loss and dysfunction in amyotrophic lateral sclerosis
Tracey Dickson - University of Tasmania, Australia

WTH13-13 Effect of curcumin against synaptic plasticity impairment in hippocampus induced by HIV-1gp120 V3 loop in rats
Jun Dong - Jinan University, China

WTH13-14 Metabolomics of neurodegeneration and aging in the Ts65Dn mouse model of premature aging and Down syndrome
Nathan Duval - University of Denver, USA

WTH13-15 Modulation of astrogliosis in combination of stem cell transplantation as a new strategy for the treatment of spinal cord injury
Slaven Erceg - Research Center 'Principe Felipe', Spain

WTH13-16 Spread of Pathology in Motor Neuron Disease: Assessment of pTDP-43 along axonal pathways
Manaal Fatima - Neuroscience Research Australia, Australia

WTH13-17 D-serine content is elevated in TLS/FUS knockout mice
Ritsuko Fujii - Hiroshima Bunkyo Women's University, Japan

WTH13-18 Low-dose, continual enzyme delivery ameliorates aspects of brain disease in a mouse model of a childhood neurodegenerative disease
Kim Hemsley - South Australian Health and Medical Research Institute, Australia

WTH13-19 Old-age hippocampal sclerosis associates with GRN but not with ABCC9 gene variation in the population
Suvi Hokkanen - University of Cambridge, United Kingdom

WTH13-20 Nicotinamide-a PARP inhibitor attenuates streptozotocin-induced experimental dementia in Wistar rats
Madhu Kaundal - ISF College of Pharmacy, India

WTH13-21 ALS-linked mutant SOD1 affects the biochemical properties of TDP-43
Jun-Soon Kim - Seoul National University Hospital, South Korea

WTH13-22 A Neurogenic Perspective on Sarcopenia and Ageing
Vidya Krishnan - The University of Western Australia, Australia

WTH13-23 A transgenic zebrafish model of spinocerebellar ataxia-3 to test potential disease treatments
Angela Laird - ANZAC Research Institute, Australia

WTH13-24 A mechanism for neurodegenerative disease in the enteric nervous system
Victoria Lawson - University of Melbourne, Australia

WTH13-25 Protein tyrosine phosphatase, receptor type, D as a candidate locus that may impact on exceptional longevity via methylation
Jessica Lazarus - UNSW, Australia

WTH13-26 The Abl-interactor Abi regulates synaptic development and neuronal survival via inhibition of BMP signaling
Seungbok Lee - Seoul National University, South Korea

WTH13-27 Noninvasive assessment of presymptomatic and symptomatic metabolic changes in the brain and brainstem of an ALS mouse model
Hongxia Lei - Ecole Polytechnique Federale de Lausanne, Switzerland

WTH13-28 Tetrahydroxystilbene glucoside protects synapses and inhibits α-synuclein aggregation
Lin Li - Xuan-wu Hospital of Capital Medical University, China

WTH13-29 Central nervous system pathology in the phytosphingolipid-deficient mouse
Junko Matsuda - Kawasaki Medical School, Japan

WTH13-30 Short Term and Long Term Behavioural and Pathological Changes in a Novel Rodent Model of Repetitive Mild Traumatic Brain Injury
Kelly McAteer - The University of Adelaide, Australia

WTH13-31 Turning the head red: near-infrared light is neuroprotective in a non-human primate model of Parkinson' disease
John Mitrofanis - University of Sydney, Australia

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WTH13-32 Glutathione monoethyl ester prevents TDP-43 pathology in NSC-34 cells expressing mutant TDP-43
Hakan Muyderman - Flinders University, Australia

WTH13-33 Neuroprotective effects of coumarin-based iron chelators in the MPP^+ model of Parkinson's disease
Marco Nunez - Universidad de Chile, Chile

WTH13-34 Role of prosaposin in retinal degeneration
Koji Ono - Kawasaki medical school, Japan

WTH13-35 Deficits in the ubiquitin proteasome system and increased pro-inflammatory signalling in an iPSC model of ALS
Lezanne Ooi - University of Wollongong, Australia

WTH13-36 Cu^+ is a cofactor for ubiquitin conjugation and cellular protein degradation
Carlos Opazo - The University of Melbourne, Australia

WTH13-37 Effect of Aging on Monoamine and Purine Levels in the Basal Ganglia of Mice Carrying A53T and A30P Alpha-Synuclein Mutations
Amar Pani - St. Jude Childrens Research Hospital, USA

WTH13-38 Cholinergic dysfunction of mesopontine tegmentum is involved in the development of Alzheimer's Disease
Lei Qian - University of Queensland, Australia

WTH13-39 Amyloid-beta remains a membrane peptide after cleavage. Implications for secretion and kinetics of Abeta turnover in human brain
Blaine Roberts - Florey Institute of Neuroscience and Mental Health, Australia

WTH13-40 p75NTR Expression Profile in Motor Neurons of Mice That Model Motor Neuron Disease and as marker for Disease Progression
Mary-Louise Rogers - Flinders University, Australia

WTH13-41 Increased Glutamate Release in TRPML1 Knock-out mice
Dong Min Shin - Yonsei University College of Dentistry, South Korea

WTH13-42 Triheptanoin delays symptom onset in the Superoxide dismutase 1 (SOD1G93A) mouse model of Amyotrophic Lateral Sclerosis
Tesfaye Tefera - University of Queensland, Australia

WTH13-43 The neuroprotective effect of puerarin against glutamate-induced cell injury in neuronally differentiated Y-79 retinoblastoma cell
Ke Wang - Jiangsu Institute of Nuclear Medicine, China

WTH13-44 M1-dominant microglial response precedes Purkinje cell loss in the cerebellum of SCA6-knockin mouse models
Kei Watase - Tokyo Medical and Dental University, Japan

WTH13-45 Assessing the neuroprotective and therapeutic properties of a strawberry anthocyanin extract in vitro and in a mouse model of ALS
Aimee Winter - University of Denver, USA

WTH13-46 Involvement of 17β-hydroxysteroid dehydrogenase type 10 (17β-HSD10) in neurodegenerative disorders
Song-Yu Yang - Institute for Basic Research in Developmental Disabilities, USA

WTH13-47 Morroniside, a potential Protein phosphatase 2A activator, antagonizes tau hyperphosphorylation in a neurodegeneration model
Lan Zhang - Xuan-Wu Hospital Of Capital Medical University, China

WTH13-48 Characterising a Novel Isoform of the EphA4 Gene
Jing Zhao - Queensland Brain Institute, Australia

WTH13-49 Angiotensin type 1a receptor deficiency decreases amyloid β-protein production and ameliorates brain amyloid pathology
Kun Zou - Iwate Medical University, Japan

WTH13-50 Immune suppression strategies for long-term survival of human stem cell xeno-grafts in the rodent brain
Christopher Turner - Florey Institute of Neuroscience and Mental Health, Australia

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WTH14 Psychiatric Disorders and Drug Abuse (Part 2)

WTH14-02 Increased expression of prohibitin and DISC1 in oligodendroglial cells in schizophrenia
Hans-Gert Bernstein - University of Magdeburg, Germany

WTH14-03 Increased serotonin release in the brain underlies the effect of 4-MTA on olfactory responses in Drosophila
Jorge Campusano - Pontificia Universidad Catolica de Chile, Chile

WTH14-04 Selenium as a potential biomarker for Alzheimer's disease
Barbara Cardoso - Florey Institute of Neuroscience, Australia

WTH14-05 Transcriptional and epigenetic factors underlying the extinction of nicotine-seeking behaviour in the rat
Matthew Castino - The University of New South Wales, Australia

WTH14-06 Paraventricular thalamic pathways and fear memory retrieval
Eun A Choi - University of New South Wales, Australia

WTH14-07 Stress-induced synaptic changes in the lateral habenula
ChiHye Chung - Konkuk University, South Korea

WTH14-08 The effect of the partial receptor agonist varenicline on responding maintained by nicotine-associated cues
Kelly Clemens - University of New South Wales, Australia

WTH14-09 A Framework for Holistic Management of Schizophrenia
Pronab Ganguly - Schizophrenia Felllowship of NSW, Australia

WTH14-10 Optogenetic evidence for opposing roles of the striatopallidal and striatohypothalamic pathways in relapse to alcohol seeking
Gabrielle Gibson - University of New South Wales, Australia

WTH14-11 Inflammatory cytokines and glutaminergic excitotoxicity in patients with Obsessive Compulsive Disorder
Sundar Gnanavel - All India Institute of Medical Sciences, India

WTH14-12 Optimisation and utilisation of a novel whole-brain imaging technique (CLARITY) to analyse addiction-like behaviours
Jonathan Jacobsen - The University of Adelaide, Australia

WTH14-13 Genetic variation in glutamate and glycine neurotransmission pathways associated with the length of sobriety in alcoholics treated
Victor Karpyak - Mayo Clinic, USA

WTH14-14 Novel methylation markers of the dysexecutive-psychiatric phenotype in FMR1 premutation women
Claudine Kraan - Monash University, Australia

WTH14-15 effect of melatonin on nmda receptor subunit 2a and 2b expression in hippocampus of methamphetamine-treated postnatal rats
Tanawan Leeboonngam - Srinakharinwirot university, Thailand

WTH14-16 Conditioned stimulus extinction attenuates incubation of cocaine craving in adolescent and adult rats
Heather Madsen - Florey Institute of Neuroscience and Mental Health, Australia

WTH14-17 Synaptic miRNAs Coordinately Regulate Synaptic mRNAs: Perturbation by Chronic Alcohol Consumption and Manipulation In-Vivo
Dana Most - University of Texas at Austin, USA

WTH14-18 Schizophrenia-like phenotypes of a novel transgenic mouse model for Neuregulin-1 Type III
Juan Olaya - Neuroscience Research Australia, Australia

WTH14-19 Pindolol, an FDA approved antihypertensive drug, decreases ethanol consumption in mice following long but not short-term exposure
Omkar Patkar - Translational Research Institute (TRI), Australia

WTH14-20 mGlu5 receptors in the extinction of cocaine-associated cues
Christina Perry - Florey Institute of Neuroscience & Mental Health, Australia

WTH14-21 The GABA, glutamate and serotonin interplay in animal models of psychosis, parmacological and neurochemical studies
Andrzej Pilc - Institute of Pharmacology, Poland

WTH14-22 Gene expression of androgen receptor and tyrosine hydroxylase are positively related in the substantia nigra in schizophrenia
Tertia Purves-Tyson - Neuroscience Research Australia, Australia

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WTH14-23 Behavioural sensitisation to methamphetamine alters protein expression in the ventral hippocampus: Implications for psychosis
Melanie Sauer - Macquarie University, Australia

WTH14-24 Impairment of molecular transport in a mouse model of schizophrenia
Daisuke Tsuboi - Nagoya University, Japan

WTH14-25 Regulation of a Neuronal Glutamate Transporter by Methamphetamine
Suzanne Underhill - NIH, USA

WTH14-26 Modelling methamphetamine psychosis in mice: role of brain BDNF or reelin
Maarten Van den Buuse - La Trobe University, Australia

WTH14-27 Using a transgenic zebrafish model of Machado-Joseph Disease to study the role of calpains, caspases and cathepsins
Maxinne Watchon - Anatomy and Histology, Australia

WTH15 Mechanism of Neuroprotection (Part 2)

WTH15-01 Anti-amyloidogenic, anti-inflammatory and antioxidant potential of Caesalpinia crista
Ramesh B Narasingappa - College of Agriculture(UASB), India

WTH15-02 Genetic deletion of d3 receptors abolishes the influence of prolonged exposure to pramipexole upon the dopamine transporter
Javier Castro Hernández - University of Melbourne, Australia

WTH15-03 Neuroprotective effect of salidroside on AD transgenic Drosophila and beta-amyloid-induced toxicity in PC12 cells via the PI3K/A
Shengdi Chen - Ruijin hospital, China

WTH15-04 Synergistic action of cAMP and Omega-3 in protecting central neurons after injury
Qi Cui - Jinan University, China

WTH15-05 Early decompression following traumatic cervical spinal cord injury in Australia: access to care from the accident site to surgery
Sarah Dunlop - University of Western Australia, Australia

WTH15-06 A rare P2X7 Variant Arg307Gln with absent pore formation function protects against Neuroinflammation in Multiple Sclerosis
Ben Gu - University of Melbourne, Australia

WTH15-07 Mechanisms of Chemobrain and Chemopain
Cobi Heijnen - MD Anderson Cancer Center, USA

WTH15-08 Coffee induces vascular endothelial growth factor expression in human neuroblastoma SH-SY5Y cells
Shota Kakio - Keio University, Japan

WTH15-09 A novel neuroprotective activity of Otx2 in mouse retinal neuron
Jin Woo Kim - Korea Advanced Institute of Science and Technology (KAIST), South Korea

WTH15-10 Enbrel treatment promotes transplanted donor human mesenchymal precursor cell survival following spinal cord injury
Sarah Lovett - University of Western Australia, Australia

WTH15-11 Systemic delivery of a mimetic peptide against connexin43 gap junction protein in rats following spinal cord injury
Gila Moalem-Taylor - University of New South Wales, Australia

WTH15-12 Dynamin-related protein-1 regulates neurodegeneration in experimental Huntington's and Parkinson's diseases
Kochupurackal Mohanakumar - CSIR-Indian Institute of Chemical Biology, India

WTH15-13 Pharmacokinetics of Intranasal Guanosine Administration
Gabriel Müller - UFRGS, Brazil

WTH15-14 Re-examining the chaperone efficacy of heat shock proteins in Neuro-2a using novel bicistronic expression constructs
Rebecca San Gil - University of Wollongong, Australia

WTH POSTER SESSIONS / WEDNESDAY, AUGUST 26 AND THURSDAY, AUGUST 27, 2015

Poster presentation by authors between 12:30 - 14:30

WTH15-15 Targeting the Plasminogen Activation System in Traumatic Brain Injury
Maithili Sashindranath - Monash university, Australia

WTH15-17 Bioactive polyphenol interactions with β amyloid: a comparison of binding, fibril inhibition and neuroprotection
Scott Smid - The University of Adelaide, Australia

WTH15-18 Vascular endothelial growth factor reduces alterations associated to blood-brain barrier disruption after ischemic stroke
Luis Tovar-y-Romo - Universidad Nacional Autónoma de México, Mexico

WTH15-19 The neuroprotective effect of Simvastatin in an induced Müller cell disruption Mouse Model
Ling Zhu - The University of Sydney, Australia

WTH15-20 Tetramethylpyrazine protects neuronally differentiated Y-79 retinoblastoma cells from oxidative stress-induced apoptosis
Xue Zhu - Jiangsu Institute of Nuclear Medicine, China

WTH16 Cell Death

WTH16-01 Increased Active Caspase 3 Expression in the Sudden Infant Death Syndrome (SIDS) Infant Medulla
Natalie Ambrose - The University of Sydney, Australia

WTH16-02 Retinal function and neuronal loss in a model of Retinitis Pigmentosa
Kiana Kakavand - University of Melbourne, Australia

WTH16-03 As,Cd and Pb metal mixture up-regulates PPARγ inducing PPRE mediated PARP activation and apoptosis in the rat astrocytes
Rajesh Kushwaha - CSIR-Indian Institute of Toxicology and Research, India

WTH16-04 MALDI-TOF/TOF-IMS examination of peptide expression in the medulla in Sudden Infant Death Syndrome (SIDS)
Rita Machaalani - University of Sydney, Australia

WTH16-05 Cypermethrin aberrantly up-regulates Ca^{2+}, ROS, JNK, MMP-2 and reelin signaling proteins leading to astrocyte damage
Shailendra Kumar Maurya - CSIR-Indian Institute of Toxicology Research, India

WTH16-06 Inhibition of multidrug resistance-associated proteins exerts cytotoxicity to neuroblastoma without neurotoxicity
Noritaka Nakamichi - Kanazawa University, Japan

WTH16-07 Dehydroascorbic acid promotes cell death in neurons under oxidative stress: a protective role for astrocytes
Francisco Nualart - Concepcion University, Chile

WTH16-08 Comparative microarray analysis identifies commonalities in neuronal apoptosis
Yann Yap - Deakin university, Australia

WTH17 Motor Systems

WTH17-01 Deficient corticostriatal activity in ageing shortens patterns of goal-directed action
J Bertran-Gonzalez - The University of Queensland, Australia

WTH17-02 Respiratory neuroplasticity within reticular nuclei following cervical spinal cord injury
Tatiana Bezdudnaya - Drexel University, USA

WTH17-03 Visuospatial and somatomotor representations of the direction and extent of reaching movements in the parietal cortex of monkeys
Konstantinos Chatzidimitrakis - Monash University, Australia

WTH17-04 Do somatic neural adaptations occur in lower limb of elite football players?
Deepak Sharma - Chitwan Medical College, Nepal

WTH17-05 Transplantation of neural progenitor cells promotes respiratory recovery after cervical spinal cord injury
Victoria Spruance - Drexel University, USA

WTH POSTER SESSIONS / WEDNESDAY, AUGUST 26 AND THURSDAY, AUGUST 27, 2015

Poster presentation by authors between 12:30 - 14:30

WTH18 Sensory Systems (Part 2)

WTH18-01 Temporal dynamics of sensory adaptation in rat barrel cortex
Mehdi Adibi - Australian National University, Australia

WTH18-02 Audiovisual integration in areas MT & MST of marmoset monkeys
Tristan Chaplin - Monash University, Australia

WTH18-03 Are rats capable of selective, spatial attention?
Saba Gharaei - University of Sydney, Australia

WTH18-04 Optogenetic dissection of a parvalbumin interneuron microcircuits within the superficial dorsal horn of the spinal cord
Mark Gradwell - University of Newcastle, Australia

WTH18-05 Characteristics of Dorsal Horn Neuron Excitability and Synaptic Input in Aged Mice
Brett Graham - University of Newcastle, Australia

WTH18-06 Contribution of cortical layers 2/3 to sensory processing in mouse barrel cortex
Ehsan Kheradpezhouh - ANU, Australia

WTH18-07 Dysregulation of metabotropic glutamate receptor 5 in periaqueductal gray perpetuate chronic neuropathic pain
Chaeyoung Kim - SNU school of medicine, South Korea

WTH18-08 Identification of the spinal afferent nerve endings that encode noxious & innocuous stimuli in the stomach and oesopahgus
Mel Kyloh - Flinders University, Australia

WTH18-09 A Rodent Model of Sensory Prioritisation: Behavioural Performance and Neural Correlates
Conrad Lee - Australian National University, Australia

WTH18-10 Transformation of orientation bias to sharp orientation selectivity within the primary visual cortex of the tree shrew
Yamni Mohan - The University of Melbourne, Australia

WTH18-11 Water channel permeability in retinal degeneration. The role of aquaporins
Lisa Nivison-Smith - University of New South Wales, Australia

WTH18-12 Effect of spike rate on response characteristics of koniocellular cells in the lateral geniculate nucleus of common marmosets
Alexander Pietersen - The University of Sydney, Australia

WTH18-13 Paradoxical effect of endocannabinoids on visually-evoked responses of mouse retinal ganglion cells
Dario Protti - University of Sydney, Australia

WTH18-14 Spatial relationship between cones and midget bipolar cells in human retina
Sivaraman Purushothuman - Ophthalmology & Save Sight Institute, Australia

WTH18-15 Sub-threshold stimulus-response function in mice layer 2/3 barrel cortex
Yadollah Ranjbar-Slamloo - Australian National University (ANU), Australia

WTH18-16 Neuronal Imaging of intrinsic sensory neurons during colonic migrating complexes
Nick Spencer - Flinders University, Australia

WTH18-17 Age-related changes in the central auditory system of rat
Josef Syka - Institute of Experimental Medicine ASCR, Czech Republic

WTH18-18 Non-invasive tactile feedback from artificial sensors using a biomimetic code
Richard Vickery - UNSW, Australia

WTH18-19 Binocular neurons in marmoset lateral geniculate nucleus: contrast sensitivity and response summation
Natalie Zeater - University of Sydney, Australia

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Poster presentation by authors between 12:30 - 14:30

WTH19 Limbic and other Systems

WTH19-01 Hippocampal influence on the Respiratory and Cardiovascular System
Itopa Ajayi - The University of Queensland, Australia

WTH19-02 5-HT1A Receptor in Sex-specific Neonatal Hippocampal Development and Later-Life Mood Disorders: Possible Cooperation with GPR30
Probal Banerjee - The College of Staten Island (CUNY), USA

WTH19-03 Sensory drive for medial olivocochlear efferent control of hearing balance depends upon type II spiral ganglion neuron innervation
Gary Housley - University of New South Wales, Australia

WTH19-04 Outcome-history dependent effects of blocking anterior insular dopamine and serotonin on risky decision making
Hironori Ishii - Tohoku university, Japan

WTH19-05 Control of fear expression by manipulation of infralimbic cortex during extinction retrieval
Hyung-Su Kim - Korea Advanced Institute of Science and Technology, South Korea

WTH19-06 Synaptic gating of viscerosensory signals in the solitary tract nucleus
Stuart McDougall - University of Melbourne, Australia

WTH19-07 Activation of habenula nucleus elicits thermogenesis in brown adipose tissue and vasoconstriction in cutaneous vascular bed
Youichirou Ootsuka - Flinders University, Australia

WTH19-08 Claustrum projections to cingulate and medial prefrontal cortex of the marmoset (Callithrix jacchus)
David Reser - Monash University, Australia

WTH19-09 A Novel Treatment Approach for Obesity and over-weight - Targeting Brain Nicotinic Receptors with Champix
Masroor Shariff - Institute of Health and Biomedical Innovation at Translational Research Institute, Australia

WTH19-10 Anatomy and physiology of the central extended amygdala
Yajie Sun - Queensland Brain Institute, Australia

WTH19-11 The essential role of BAF53b in learning-related synaptic plasticity and long-term fear memory formation in the lateral amygdala
Miran Yoo - Korea Advanced Institute of Science and Technology (KAIST), S.Korea

WTH20 Neuroengineering

WTH20-01 Optimizing CNS-delivery by lactyl stearate-coupled liposomes
Mani Bhargava - ICFAI University, India

WTH20-02 The Braincubator as a system to extend the viability of acute brain slices
Yossi Buskila - University of Western Sydney, Australia

WTH20-03 Ultra-structural imaging in cleared mouse CNS using nanoparticles
Vicky Staikopoulos - University of Adelaide, Australia

TRAVEL AWARDEES

Congratulations to the following young investigators for the ISN 2015 travel awards:

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Alexis Gonzalez	Chile
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Andrew Robinson	United States of America
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Anna Wilkaniec	Poland
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Benjamin McIlwain	Australia
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Yan Zhang	Australia
Youngpyo Nam	Korea South
Yulia Dembitskaya	Russia
Zila Martinez-Lozada	Mexico

MARK SMITH POSTER AWARDS

Takao Hikita (2013 Mark Smith Awardee)
Graduate School of Medical Sciences, Department of Developmental and Regenerative Biology, Nagoya City University, Japan
"Rac1-mediated indentation of resting neurons promotes the chain migration of new neurons in the rostral migratory stream of postnatal mouse brain"

Ruben K. Dagda (2013 Mark Smith Award Runner-Up)
Department of Pharmacology, University of Nevada School of Medicine, Reno, NV, USA;
Department of Pathology, University of Pittsburgh, Pittsburgh, PA, USA
"Beyond the mitochondrion: cytosolic PINK1 remodels dendrites through Protein Kinase A"

Rong Li (2013 Mark Smith Award Runner-Up)
Key Laboratory Experimental Teratology of the Ministry of Education and Department of Biochemistry and Molecular Biology, Shandong University, School of Medicine, Jinan, Shandong, 250012, China
"Molecular mechanism of ERK dephosphorylation by striatal-enriched protein tyrosine phosphatase (STEP)"

Stefania Averaimo (2014 Mark Smith Awardee)
Department of Biosciences, University of Milan, Italy
Present address: INSERM, U968, CNRS, UMR_7210, Sorbonne Universités, UPMC Univ Paris 06, UMR_S 968, Institut de la Vision, Paris, France
"CLIC1 functional expression is required for cAMP-induced neurite elongation in post-natal mouse retinal ganglion cells"

Carola Rotermund (2014 Mark Smith Award Runner-Up)
German Center of Neurodegenerative Diseases, University of Tübingen, Germany
"Diet-induced obesity accelerates the onset of terminal phenotypes in α -synuclein transgenic mice"

Lauran Reyniers (2014 Mark Smith Award Runner-Up)
Laboratory for Neurobiology and Gene Therapy, Department of Neurosciences, KU Leuven, Belgium
"Differential protein-protein interactions of LRRK1 and LRRK2 indicate roles in distinct cellular signaling pathways"

YOUNG SCIENTIST LECTURESHIP AWARDS

Michael Fox

Virginia Tech Carilion Research Institute, Biological Sciences, Roanoke, USA
"Extracellular Matrix Molecules Induce Inhibitory Synapse Formation"

Jess Nithianantharajah

Florey Institute of Neuroscience and Mental Health, Synapse Biology and Cognition laboratory, Parkville, Australia
"Evolution Of Synaptic Genes, Cognition And Disease Susceptibility"

EXHIBITING SOCIETIES

International Society for Neurochemistry

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Email : secretariat@neurochemistry.org
Website : www.neurochemistry.org

The International Society for Neurochemistry (ISN), is the sole international nonprofit membership organization comprised of scientists and physicians who are active in the field of neurochemistry, cell and molecular neuroscience or related areas, and committed to share knowledge, promoting multidisciplinary collaboration amongst all professionals giving them a voice within the international context.
In this endeavor ISN thrives to facilitate and foster the education and development of neuroscientists, particularly young and emerging investigators through a wide range of activities including biennial congresses, specialized conferences, grants opportunities, training programs and network opportunities with the leading experts of the neurochemistry field.

American Society for Neurochemistry

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Website : www.asneurochem.org

The American Society for Neurochemistry's Missions:

- to advance and promote cellular and molecular neuroscience knowledge;
- to advance, promote, support, encourage and facilitate communication among investigators in neurochemistry and related neurosciences;
- to promote, support, encourage and facilitate the dissemination of information concerning neurochemical research through scientific meetings, seminars, publications and related activities;
- to promote, support and encourage the research of individual cellular and molecular neuroscientists and to engage in any and all other activities for the advancement of the science of neurochemistry which may be deemed advisable;
- to insure that all of its activities remain open to the full participation of scholars of all backgrounds and nationalities.

EXHIBITING SOCIETIES

Asian-Pacific Society for Neurochemistry

Website : www.apsneurochem.org

The Asian Pacific Society for Neurochemistry was formed at the Sydney meeting of the International Society for Neurochemistry in 1991 in order to promote neurochemistry in the Asian Pacific region.
It is modelled on the American and European regional neurochemistry societies, holding meetings every two years in the years when an ISN meeting is not held. Membership of the APSN is open to individual scientists, scientific societies with a significant interest in neurochemistry and to corporations based in the Asian Pacific region. APSN aims to promote research in neurochemistry in particular by dissemination of information, by arrangement of meetings and to encourage contact between its members. Individuals, societies and corporations interested in joining APSN are encouraged to contact us directly. The Asian Pacific region holds special challenges given the extreme breadth of cultural, economic and scientific diversity in the region. Countries already involved with the APSN include Australia, China - Beijing, China - Taipei, Hong Kong, India, Japan, Korea, Malaysia, New Zealand, Philippines, Singapore, and Thailand. APSN hopes to include other countries in the Asian Pacific region, such as Fiji, Indonesia, Nepal, Pakistan and Papua New Guinea, in the future. The emphasis on different aspects of neurochemistry, including biochemical, clinical, chemical, molecular biological and pharmaceutical aspects, in the different countries promises to be one of the strengths of APSN.

Australasian Neuroscience Society

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The Australian Neuroscience Society was founded in 1971 as an informal collection of interested Australian neuroscientists. It held annual meetings with a central theme from 1972-1980. At the 1979 “Neurotoxins” meeting at Flinders, it was decided to form a proper society. At the 1980 Canberra meeting, a formal society was created with a council, which met for the first time on Thursday 7th Feb 1980. At the tenth annual meeting held at Flinders University in Jan 1981, the constitution of the Society was accepted and the Society became incorporated in the Australian Capital Territory during that year. Annual meetings have been held since 1980, usually in late January, early February. Abstracts were published by Elsevier in Neuroscience Letter Supplements 1982-1989, and are now published by the Society itself (1990 and continuing).

European Society for Neurochemistry

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Website : www.neurochemsoc.eu

The European Society for Neurochemistry (ESN, founded in 1976) aims to advance our knowledge on Neurochemistry for the public benefit and to promote its development in Europe. We facilitate exchange of ideas and interests among ESN members, foster the interaction between clinical and basic Neurochemistry, and promote biennial scientific Conferences for the discussion and dissemination of Neurochemistry research.

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