

"The major neuroscience conference in Australasia"

2014 meeting of the Australasian Neuroscience Society



PROGRAMME

Australasian Neuroscience Society 34th Annual Meeting

28th - 31st January, 2014

Adelaide Convention Centre, Adelaide

Research at the **Queensland Brain Institute**

World-leading research

The Queensland Brain Institute (QBI) is a world-class research facility based at The University of Queensland's St Lucia campus.

Researchers at QBI make great contributions to the field by studying fundamental cellular and mechanistic processes, as well as disorders and diseases from early brain development through to later life.

Our scientists work to understand complex functions such as cognition, ageing, neurological disease, mental illness, and learning and memory.

Through collaborations with clinicians and commercial partners, basic research findings are applied to the development of new therapeutic approaches to combat diseases in which brain function has failed or is compromised.

The quality of the Institute's faculty, support staff and facilities, as well as its exceptional funding success, guarantee all researchers are exposed to an internationally competitive environment.

Major research themes

- Cognition and behaviour
- Computation and neuronal circuits
- Neurogenesis and neuronal survival
- Neurogenetics and epigenetics
- Neuroimaging
- Neuronal development and connectivity
- Sensory systems
- Synaptic function



Queensland Brain Institute

Queensland Brain Institute
The University of Queensland
St Lucia, QLD 4072 Australia



QueenslandBrainInstitute

Phone: +61 7 3346 6300
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Web: www.qbi.uq.edu.au



@QBI_UQ

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AUSTRALIAN NEUROSCIENCE SOCIETY

ANS EXECUTIVE

President:	Professor John Rostas Faculty of Health University of Newcastle CALLAGHAN NSW 2308
President Elect:	Professor James Vickers School of Medicine University of Tasmania HOBART TAS 7001
Secretary:	Professor Joe Lynch Queensland Brain Institute University of Queensland BRISBANE QLD 4072
Treasurer:	A/Prof Andrew Allen Department of Physiology University of Melbourne MELBOURNE VIC 3010
Editor:	A/Prof Steven Petrou Florey Institute of Neuroscience & Mental Health University of Melbourne MELBOURNE VIC 3010

ANS 2014 Conference Organisers

All Occasions Management

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Sarah Bradshaw, Coordinator - Conventions and Events

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INTRODUCTION

The ANS 2014 Local Organising Committee welcomes you to Adelaide for the 34th Annual Meeting of the Australasian Neuroscience Society. The conference will be held in the centrally located Adelaide Convention Centre.

We have over 750 registrants and an excellent scientific programme organised. The programme features 19 symposia, 17 oral sessions and four plenary lectures to be presented by Moses Chao, Perry Bartlett, Marcello Costa and Trevor Kilpatrick. There are nearly 400 poster presentations.

The Social Programme will include a Welcome Reception on the Tuesday evening and events for students and early career researchers on Wednesday. The renowned ANS Conference Dinner will be held on Thursday evening in the Adelaide Convention Centre where we will “wine and dine” you South Australian-style!

Once again, there will be an Exhibitor Passport Competition in support of our trade display with your chance to win one of the excellent prizes on offer. We encourage you to take full advantage of the trade exhibition by visiting each booth and, of course, by having your “Passport” stamped.

The meeting will conclude with Farewell Drinks on Friday afternoon when the Student Awards and will be presented and Exhibition Passport prizes will be drawn.

We look forward to hosting you in our beautiful city of Adelaide during ANS 2014.

Michael Lardelli

Chair, ANS 2014 Local Organising Committee



CONFERENCE COMMITTEE

LOCAL ORGANISING COMMITTEE

Michael Lardelli - Chair, University of Adelaide

David O'Carroll - Deputy Chair, University of Adelaide

Stuart Brierley - Secretary, University of Adelaide

Simon Koblar – Treasurer & Scientific Subcommittee, University of Adelaide

Bernhard Baune – Chair, Scientific Subcommittee, University of Adelaide

Lorimer Moseley, Scientific Subcommittee, University of South Australia

Mary Louise Rogers, Scientific Subcommittee, Flinders University

Vladimir Zagorodnyuk, Scientific Subcommittee, Flinders University

Xin-Fu Zhou, Scientific Subcommittee, University of South Australia

Renee Turner, Social Subcommittee, University of Adelaide

Anna Leonard, Social Subcommittee, University of Adelaide

Kylie Ellis, Social Subcommittee, University of Adelaide

Joshua Burton, Artwork, University of Adelaide

Steven Wiederman, Websites, University of Adelaide

Robyn Flook, Sponsorship & Exhibition, Flinders University

Larisa Bobrovskaya, Poster & Oral Presentation Judging, University of South Australia

Nick Spencer, Marketing, Flinders University

Sarah Brooker, Marketing, CSIRO

Sarah Cohen-Woods, Families in Science Symposium, University of Adelaide

Femke Buisman-Pijlman, University of Adelaide

Lynley Bradnam, Flinders University

Ian Musgrave, University of Adelaide

Emma Parkinson-Lawrence, University of South Australia

Julia Pitcher, University of Adelaide

Robert Vink, University of Adelaide

ANS SUSTAINING MEMBERS

The following companies are Sustaining Members of the ANS.

The asterisks indicate those companies
exhibiting at this meeting.

*ADInstruments

*Biocore Pty Ltd

*Bmedical Pty Ltd

*CED / Symbiotic Devices

*Coherent Scientific Pty Ltd

*Lastek

*Leica Microsystems

*Life Technologies

*Multi Channel Systems MCS GmbH

*Newspec

*Sapphire Bioscience Pty Ltd

*Scitech Pty Ltd

Shimadzu Biotech

*SDR Scientific

*Tecan Australia

*ZEISS Australia

PROGRAMME INFORMATION

Speaker Support Centre

(Lounge C, Plaza Level, Adelaide Convention Centre)

Hours of Opening:

Tuesday 28 January	15:00 - 17:00
Wednesday 29 January	07:30 - 18:00
Thursday 30 January	08:00 - 18:00
Friday 31 January	08:30 - 16:00

Data Projection

Data projection will be available in all lecture rooms with presentations being accepted from DVD, CD or a USB Mass Storage Devices. Presenters are required to report to the AV Technician, located in the Speaker's Preparation Area (Lounge C), well before their scheduled presentation to allow sufficient time to upload, alter or check their audio visual presentations with the technician.

Please present to the Speaker Support Centre the day before your presentation or one full session beforehand if you are presenting on the first day. We also suggest that you bring a backup of your presentation .

If you are a Mac user and have created your PowerPoint presentation using a Mac, there will be a Mac located at the Speaker's Preparation Area for you to load your presentation successfully. Please note that the system used at the Adelaide Convention Centre only supports PowerPoint therefore if you have created your presentation using any other program such as Keynote you will be required to provide your own Mac laptop, power adaptor and VGA cable.

Posters

Posters will be on display as follows:

Wednesday 29 January	09:30 - 17:30
Thursday 30 January	09:30 - 16:00

Posters will be on display for one day only. Wednesday posters may be mounted from 07:30 on Wednesday, 29 January and must be taken down by 18:00 on Wednesday. Thursday posters may be mounted from 08:00 and must be taken down by 18:30 on Thursday. Any remaining posters will be removed and stored at the Registration Desk until the conference conclusion. The poster boards are numbered and Velcro pieces are available at each board. Presenting author will be in attendance for discussion at the scheduled viewing times.

TRADE EXHIBITION

Trade Exhibition Opening Hours

Wednesday 29 January	09:30 - 17:30
Thursday 30 January	09:30 - 18:00
Friday 31 January	10:30 - 14:00

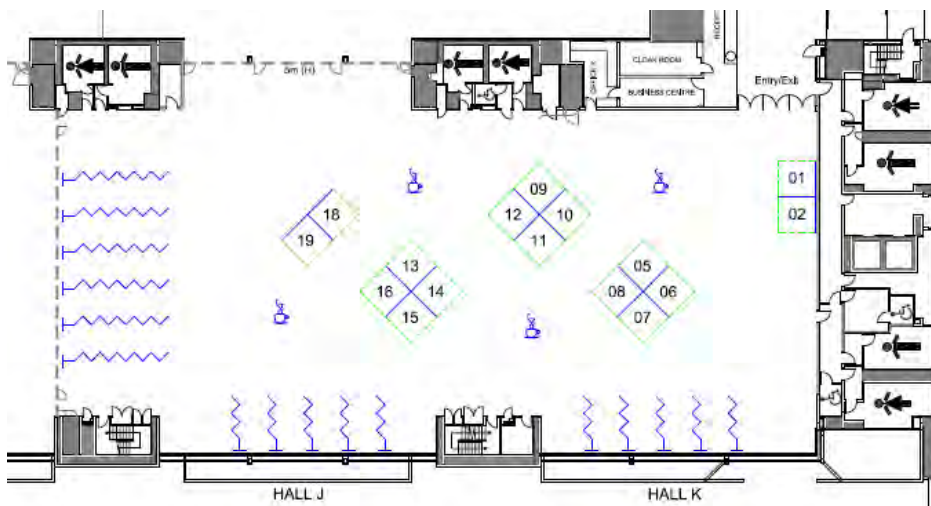
The trade exhibition will be open during the times specified above. Please make time to visit the stands as the support of the companies is vital to the financial outcome of the Annual Meeting.

Passport Competition

“Passport” booklets will be inserted in all conference satchels. Delegates need to have their “passport” stamped or signed by all exhibitors to be eligible to be in the running for great prizes to be drawn on Friday morning.

Company	Booth No.	Company	Booth No.
ADInstruments	8	Life Technologies	12
Alzheimer's Australia	16	Multi Channel Systems MCS GmbH	15
BMedical Pty Ltd	9	Newspec	7
Biocore Pty Ltd	14	Sapphire Bioscience Pty Ltd	10
CED / Symbiotic Devices	19	Sciotech Pty Ltd	1
Coherent Scientific Pty Ltd	18	SDR Scientific	5
Lastek	2	Tecan Australia	11
Leica Microsystems	13	ZEISS Australia	6

FLOOR PLAN



GENERAL INFORMATION

Venue

All scientific functions will be located in the Adelaide Convention Centre. This is a non-smoking venue. Participants are requested to refrain from smoking in the conference venue and at all social functions.

Registration Desk

The registration desk will be open at the following times:

Tuesday 28 January	15:00 - 20:00
Wednesday 29 January	07:30 - 18:00
Thursday 30 January	08:00 - 18:00
Friday 31 January	09:00 - 17:00

Car Parking

The Adelaide Convention Centre operates both the Riverbank and North Terrace car parks, which are open 24 hours a day, 7 days a week. The Riverbank car park is accessed from Festival Drive and the North Terrace car park is accessed from North Terrace. Early bird rates are available for entry between 5.00am and 9.30am and exit by 6.30pm. Beyond these times casual parking charges will apply as below:

0-1 hour \$4.00
1-2 hours \$8.00
2-3 hours \$12.00

Then an additional \$1.00 for each hour or part thereof to a maximum of \$24.00 for each 24 hour period.

Name Badges

Each delegate registered for the conference will receive a badge at the Registration Desk. This badge will be your official pass to obtain entry to all sessions. For security and identification reasons, the name badge must be worn at all times during the conference. If your name badge is lost or misplaced, please contact the Registration and Information Desk. Identification will be required to receive a replacement badge.

Messages

A message board will be located near the registration desk. Please advise potential callers to contact the Adelaide Convention Centre on +61 8 8212 4099 and ask for 34th Annual Australasian Neuroscience Society Meeting registration desk. All messages taken will be placed on the message board. Please ensure that you check this board frequently as messages will not be delivered personally.

GENERAL INFORMATION

Wi-Fi

Complimentary Wi-Fi for ANS 2014 has been supplied by AARNet and Sabrenet. Wi-Fi will be available in all session rooms, the exhibition area and the foyer area. Please see the registration desk for username and password login details

Mobile Phones

Please respect the presenter and other members of the audience by ensuring your mobile phone is switched off or turned to silent while you are in sessions.

Catering

Morning tea, lunch and afternoon tea will be provided on Wednesday and Thursday and served in the in the exhibition area in Halls J & K. On Friday morning tea will again be served in the exhibition area then delegates will have a free lunch on this day where they can purchase their own lunch from any of the nearby food halls and cafés. If you have requested a special meal, please make yourself known to the catering staff so they can ensure you receive your meal.

Privacy Statement

The All Occasions Group (encompassing All Occasions Management and All Occasions Travel Pty Ltd) complies with all legislation which is designed to protect the rights of the individual to privacy of their information, including the Privacy Act 1988 (Cth). Information collected with respect to your registration for participation in this conference will only be used for the purposes of planning, conduct of the event or communication regarding future events. These details may be made available to parties directly related to the conference including but not limited to the All Occasions Group, venues, accommodation and travel providers (for the purposes of room/travel bookings and Convention options), key sponsors (subject to strict conditions) and other related parties as deemed necessary. It is also usual practice to produce a 'Delegate List' of attendees at the conference and to include the individual's details in such a list. By completing the registration form, you acknowledge that the details supplied by you may be used for the above purposes. It is your responsibility to ensure that all information provided to the All Occasions Group is accurate and kept up to date. To access or update your information please email or fax the All Occasions Group conference@aoevents.com or 08 8125 2200.

Liability/Insurance

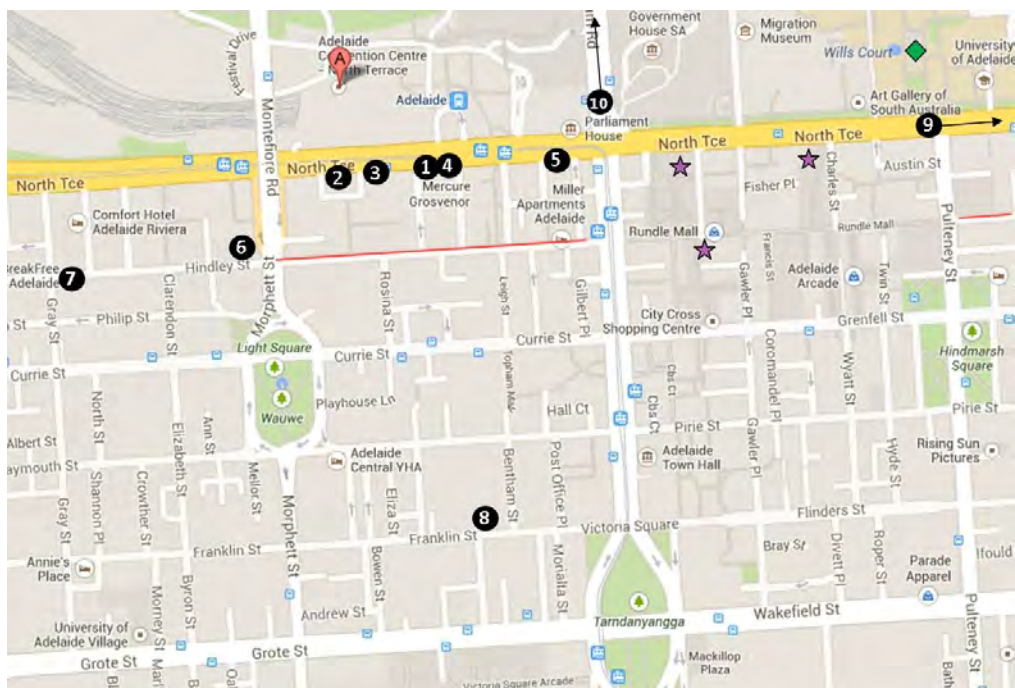
In the event of industrial disruptions or natural disasters, the Australasian Neuroscience Society, Adelaide Convention Centre, the Local Organising Committee, and All Occasions Group (encompassing All Occasions Management and Travelscene at All Occasions) cannot accept responsibility for any financial or other losses incurred by the delegates. Australasian Neuroscience Society, Adelaide Convention Centre, the Organising Committee and the All Occasions Group take no responsibility for injury or damage to persons or property occurring during the conference. All insurance, including medical cover, or expenses incurred in the event of the cancellation of the conference is the individual delegate's responsibility. Delegates are encouraged to choose a travel insurance policy that includes loss of fees/deposits through cancellation of your participation in the conference, or through the cancellation of the conference itself, loss of airfares for any reason, medical expenses, loss or damage to personal property, additional expenses and repatriation should travel arrangements have to be altered. Australasian Neuroscience Society, Adelaide Convention Centre, the Local Organising Committee, and All Occasions Group will take no responsibility for any participant failing to insure.

ACCOMMODATION & MAP OF LOCAL AREA

A. ADELAIDE CONVENTION CENTRE - CONFERENCE VENUE

1. **Sebel Playford Adelaide** - 120 North Terrace Adelaide SA
2. **Oaks Embassy** - 96 North Terrace Adelaide SA
3. **Oaks Horizons** - 104 North Terrace Adelaide SA
4. **Mercure Grosvenor** - 125 North Terrace Adelaide SA
5. **Stamford Plaza** - 150 North Terrace Adelaide SA
6. **Rockford Adelaide** - 164 Hindley Street Adelaide SA
7. **Breakfree Adelaide** - 255 Hindley Street Adelaide SA
8. **Franklin Central Apartments** - 36 Hindley Street Adelaide SA
9. **To Royal Adelaide Hospital Residential Wing** - 200 North Terrace Adelaide SA
10. **To St Marks College** - 46 Pennington Terrace North Adelaide SA

— Hindley Street and Rundle Street are where many café's and local eateries are located. There are also 3 main food halls located on Rundle Mall as shown with a ☆ on the adjacent map. The location of Elder Hall is indicated on the below map with ◆



11th Annual World Congress of SBMT

17 March – 19 March 2014

Four Seasons Hotel, Sydney, Australia



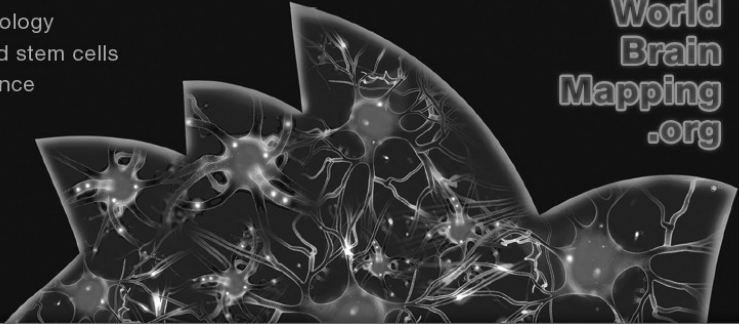
Key topics include:

- Neurosurgery
- Brain injuries and rehabilitation
- Neurology and neurophysiology
- Regenerative medicine and stem cells
- New frontiers in brain science
- Brain 'all omics'

World
Brain
Mapping
.org



Congress organiser:



More information contact Event Manager Kirsty Grimwade, kgrimwade@ausbiotech.org, 03 9828 1406



SOCIAL PROGRAM

Tuesday 28 January

Welcome Mixer: 18:30 - 20:30

Riverbank Promenade, The Adelaide Convention Centre

Enjoy views of the River Torrens and a sample of South Australia's fine wines and canapés while catching up on the year's news with your colleagues.

Cost: \$15.00 per registrant.

\$45.00 per person for accompanying guests.

Wednesday 29 January

Early Career Mixer: 19:00 - 21:00

Principal Sponsor - Centre of Excellence for Integrative Brain Function

Elder Hall, The University of Adelaide

A great networking opportunity for postgraduate students and postdocs.

Cost: \$10.00 per Student/ECR.

Thursday 30 January

Conference Dinner: 19:00 - 23:30

Hall F, The Adelaide Convention Centre

The main social event and excuse to hit the dance floor. You will enjoy fine food and wine with live band entertainment.

Cost: \$100.00 per registrant.

\$125.00 per person for accompanying guests.

Friday 31 January

Farewell Drinks: 16:00 - 17:00

Foyer F, The University of Adelaide

Join your colleagues for farewell drinks combined with the presentation of Student Awards.

There is no additional cost for the farewell drinks.

HOTEL/APARTMENT INFORMATION

Payment

Please finalise your accommodation account with the hotel upon departure. Visit the staff at the registration desk if you have any queries regarding your accommodation.

Arrival Time

General Hotel check-in time is 2.00pm. If you arrive prior to this time your room may not be available. To guarantee a room for an early arrival you will need to book for the previous night.

Check-out

Check-out time is strictly 10.00am unless otherwise indicated. Late check-out will result in the hotel's daily rate being charged.

Contact

Adelaide Telephone Codes::

International: + 61 8

Interstate: 08

Local: As Shown below

Breakfree Adelaide

8217 2512
255 Hindley St
Adelaide SA 5000

Rockford Adelaide

8211 8255
164 Hindley St
Adelaide SA 5000

Franklin Central Apartments

8221 7050
36 Franklin Street
Adelaide SA 5000

Royal Adelaide Hospital Residential Wing

8222 5200
North Terrace
Adelaide SA 5000

Mecure Grosvenor Hotel

8407 8888
125 North Tce
Adelaide SA 5000

Sebel Playford Adelaide

8213 8804
120 North Terrace
Adelaide SA 5000

Oaks Embassy

8124 9900
96 North Terrace
Adelaide, SA 5000

Stamford Plaza Adelaide

8461 1111
150 North Terrace
Adelaide SA 5000

Oaks Horizons

8210 8000
104 North Terrace
Adelaide, SA 5000

St Marks College

8334 5604
46 Pennington Terrace
North Adelaide SA 5006

ANS 2014 SPONSORS

The Local Organising Committee of ANS2014 acknowledge the generous financial support of the following sponsors:



Queensland Brain Institute



South Australian Neuroscience Institute



Flinders UNIVERSITY



Centre for Neuroscience
Adelaide, Australia



www.flinders.edu.au/neuroscience



University of South Australia

Sansom Institute for Health Research



MELBOURNE NEUROSCIENCE INSTITUTE



PUBLISHING



Centre of Excellence for Integrative Brain Function



TIMETABLE - TUESDAY 28 JANUARY 2014

<i>TIME</i>	<i>LOCATION</i>	<i>EVENT</i>
15:00 - 20:00	Foyer H	Registration
17:00-17:30	Hall E	Opening of Conference Welcome to Country – Uncle Lewis Professor John Rostas (President ANS) Professor Ian Chubb (Chief Scientist for Australia)
17:30-18:30	Hall E	Plenary Lecture 1 – ANS Overseas Plenary Lecturer Moses V. Chao <i>“The future of neurotrophic factors”</i>
18:30-20:30	Riverbank Promenade	<i>Welcome Mixer</i>

TIMETABLE - WEDNESDAY 29 JANUARY 2014

<i>TIME</i>	<i>LOCATION</i>	<i>EVENT</i>
From 7:30	Foyer H	Registration
08:25-08:30	Hall E	Opening Comments
08:30-09:30	Hall E	Plenary 2 – ANS Lawrie Austin Plenary Lecture Trevor Kilpatrick <i>“Unravelling the neurobiology of MS”</i>
09:30-10:00	Halls J & K	<i>Morning Tea / Exhibition / Posters</i>
10:00-12:00	Hall E	Concurrent Sessions Symposium 1 – Hearing and Deafness: From Molecules to Cognition with Assistive Technology
	Hall D	Symposium 2 – The Lows and Highs of Glucose Homeostasis: How the Brain Controls Blood Sugar
	Meeting Rm 1/2	Symposium 3 – Neurodevelopmental Disorders: Tracing the Developmental Trajectory from Genes to Behaviour
	Meeting Rm 10	Symposium 4 – Antibody-Associated Disorders of the Nervous System
	Meeting Rm 11	Symposium 5 – Transporters in the Brain: Mechanisms & Therapies
	Meeting Rm 3	Symposium 6 – Respiratory Control in Health and Disease
12:00-13:00	Halls J & K	<i>Lunch / Exhibition / Posters</i>
12:45-14:45	Hall E	Australian Brain Bee Challenge and Awards Ceremony

TIMETABLE - WEDNESDAY 29 JANUARY 2014

TIME	LOCATION	EVENT
13:00-15:00	Halls J & K	Poster Session A / Exhibition <i>13:00 - 14:00 Presenters of odd numbered posters in attendance</i> <i>14:00 - 15:00 Presenters of even numbered posters in attendance</i>
15:00-15:30	Halls J & K	Afternoon Tea / Exhibition / Posters
15:30-17:30		Concurrent Sessions
	Hall E	Oral 1 – Autonomic/Neuroendocrine Systems I
	Hall D	Oral 2 – Clinical Disorders & Injury of the Nervous System I
	Meeting Rm 1/2	Oral 3 – Cognition, Learning & Behaviour I
	Meeting Rm 10	Oral 4 – Clinical Disorders & Injury of the Nervous System II
	Meeting Rm 11	Oral 5 – Excitability & Synaptic Transmission I
	Meeting Rm 3	Oral 6 – Glia I
18:00-19:00	Elder Hall, The University of Adelaide	Families and Science Workshop
19:00-21:00	Bonython Hall Lawns, The University of Adelaide	Early Career Mixer <i>Principal Sponsor - Centre of Excellence for Integrative Brain Function</i>

TIMETABLE - THURSDAY 30 JANUARY 2014

<i>TIME</i>	<i>LOCATION</i>	<i>EVENT</i>
From 8:00	Foyer H	Registration
08:25-08:30	Hall E	Opening Comments
08:30-09:30	Hall E	Plenary 3 – The ANS Plenary Lecture Marcello Costa <i>"20/20 insight in Neurogastroenterology"</i>
09:30-10:00	Halls J & K	<i>Morning Tea / Exhibition / Posters</i>
10:00-12:00	Hall E	Concurrent Sessions Symposium 7 – ANS Presidential Symposium: Bionic & Computational Vision
	Hall D	Symposium 8 – Translational Research in Depression: Stem Cells, Genes, Behaviour & Drug Response
	Meeting Rm 1/2	Symposium 9 – The Many Faces of the Orexin System
	Meeting Rm 10	Symposium 10 – Neuronal Trafficking in Synaptic Plasticity, Learning & Memory
	Meeting Rm 11	Symposium 11 – The Big Bang: A Foray into How Percepts Collide to Give Rise to Embodied Sensory Experience
	Meeting Rm 3	Symposium 12 – Trafficking & Local Translation of mRNA in Neurodegenerative Disease
12:00-12:30	Halls J & K	<i>Lunch / Exhibition / Posters</i>
12:30-14:30	Halls J & K	Poster Session B / Exhibition <i>12:30 – 13:30 Presenters of odd numbered posters in attendance</i> <i>13:30 – 14:30 Presenters of even numbered posters in attendance</i>

TIMETABLE - THURSDAY 30 JANUARY 2014

<i>TIME</i>	<i>LOCATION</i>	<i>EVENT</i>
14:30-15:30	Hall E	ANS Annual General Meeting
15:30-16:00	Halls J & K	<i>Afternoon Tea / Exhibition / Posters</i>
16:00-18:00	Hall E Hall D Meeting Rm 1/2 Meeting Rm 10 Meeting Rm 11 Meeting Rm 3	Concurrent Sessions Symposium 13 – Convergent & Divergent Theories of Alzheimer’s Disease: <i>A special symposium of the ANS 2014 Local Organising Committee</i> Oral 7 – Clinical Disorders & Injury of the Nervous System III Oral 8 – Development & Regeneration I Oral 9 – Cognition, Learning & Behaviour II Oral 10 – Clinical Disorders & Injury of the Nervous System IV Oral 11 – Sensory Systems I
19:00-23:30	Hall F	<i>Conference Dinner</i>

TIMETABLE - FRIDAY 31 JANUARY 2014

<i>TIME</i>	<i>LOCATION</i>	<i>EVENT</i>
From 9:00	Foyer H	Registration
09:25-09:30	Hall E	Opening Comments
09:30-10:30	Hall E	Plenary 4 – The Eccles Lecture Perry Bartlett <i>“Producing new neurons in the adult brain: How is it regulated and what is the use?”</i>
10:30-11:00	Halls J & K	<i>Morning Tea / Exhibition</i>
11:00-13:00	Hall E	Concurrent Sessions Symposium 14 – Tackling the Issue of Brain Concussion: From Bench to Field-Side
	Hall D	Symposium 15 – Important Lessons from Human Brain Tissue Research Behaviour & Drug Response
	Meeting Rm 1/2	Symposium 16 – Glia in Development & Disease
	Meeting Rm 10	Symposium 17 – Harnessing Brain Plasticity for Rehabilitation
	Meeting Rm 11	Symposium 18 – TRP Channels in Health & Disease
	Meeting Rm 3	Symposium 19 – RNA Metabolism in Neurodegeneration
13:00-14:00		<i>Lunch Break</i> (<i>Lunch may be purchased at nearby cafés. Please refer to the map on page 10 for locations</i>) *The exhibition hall will remain open should you wish to continue networking with sponsors
14:00		Exhibition Hall to Close

TIMETABLE - FRIDAY 31 JANUARY 2014

<i>TIME</i>	<i>LOCATION</i>	<i>EVENT</i>
14:00-16:00	Hall E	Concurrent Sessions Oral 12 – Development & Regeneration II
	Hall D	Oral 13 – Motor Systems I
	Meeting Rm 1/2	Oral 14 – Sensory Systems II
	Meeting Rm 10	Oral 15 – Clinical Disorders & Injury of the Nervous System V
	Meeting Rm 11	Oral 16 – Autonomic/Neuroendocrine Systems II
	Meeting Rm 3	Oral 17 – Neuroengineering & Computational Neuroscience I
16:00-17:00	Foyer F	<i>Closing Ceremony, Presentation of Awards & Farewell Drinks</i>

TUESDAY 28 JANUARY 2014

15:00 - 20:00 **REGISTRATION**
Location: **Foyer H**

17:30-18:30 **PLENARY 1**

OVERSEAS PLENARY LECTURE

Chair: A/Prof Elizabeth Coulson, University of Queensland, QLD
Location: Hall E

PLE-TUE-01

The future of neurotrophic factors

Chao, Moses (Skirball Institute, USA)

Moses Chao



Moses V. Chao received his BA degree from Pomona College and his PhD from UCLA in biochemistry. He carried out postdoctoral research at Columbia University with Richard Axel, before joining the faculty at Cornell Medical School in 1984. In 1998, he moved to NYU School of Medicine, where he is presently Professor of Cell Biology, Physiology & Neuroscience and Psychiatry. His laboratory discovered and defined the genes encoding the NGF receptor. His research

interests are to define the mechanisms used by trophic factors to change synaptic plasticity. He served as Senior Editor for the *Journal of Neuroscience* for eleven years and also as an editor for *Developmental Neurobiology* and *Molecular and Cellular Neuroscience*. He has been a member of the Scientific Advisory Board for the Simons Foundation, the Christopher and Dana Reeve Foundation, the European Brain Research Foundation and St. Jude's Children's Research Hospital. He was named a Fellow of the AAAS and a recipient of a Zenith Award from the Alzheimer's Association, a Jacob Javits Neuroscience Investigator Award and a Guggenheim Fellowship. Chao was elected President of the Society for Neuroscience for 2012.

WEDNESDAY 29 JANUARY 2014

From 07:30 **REGISTRATION**
Location: **Foyer H**

08:30 - 09:30 **PLENARY 2**

ANS LAWRIE AUSTIN PLENARY LECTURE

Chair: A/Prof. Ann Turnley, University of Melbourne, VIC
Location: Hall E

PLE-WED-02

Unravelling the neurobiology of MS

Kilpatrick, Trevor (University of Melbourne, VIC)

Trevor Kilpatrick



Trevor Kilpatrick is a Professor of Neurology and Director of the Centre for Neuroscience Research and the Melbourne Neuroscience Institute at The University of Melbourne; he is the leader of the MS Division at the Florey Institute of Neuroscience and Mental Health and is a neurologist and Head of the MS Unit at the Royal Melbourne Hospital. Professor Kilpatrick graduated with a Bachelor of Medicine, Bachelor of Surgery from the University of Melbourne in 1982 and then went on to

specialise in neurology. He undertook graduate studies at The University of Melbourne and gained a Doctor of Philosophy in 1993. Appointments at The Salk Institute for Biological Studies (La Jolla, USA), Institute of Neurology (London, UK) and The National Hospital and Moorfields Eye Hospital (London, UK) followed. Professor Kilpatrick has been the recipient of the Sunderland Award (1994), AMRAD Postdoctoral Award (1995), inaugural Leonard Cox Award (2000), Bethlehem Griffiths Research Foundation Award for Medical Research (2004), the Australian Museum's Jamie Callachor Eureka Prize for Medical Research (2008), the Stephen C. Reingold Research Award by the US MS National Multiple Sclerosis Society (2010) and most recently, (2013), Professor Kilpatrick was awarded the Bethlehem Griffiths Research Foundation Medal for outstanding leadership in medical research.

WEDNESDAY 29 JANUARY 2014

10:00-12:00 SYMPOSIUM 1

HEARING AND DEAFNESS: FROM MOLECULES TO COGNITION WITH ASSISTIVE TECHNOLOGY

Chair: Prof. David Ryugo, Garvan Institute of Medical Research, NSW
Location: Hall E

- 10:00** **SYM-01-01**
MOLECULAR PATHWAYS TO DIAGNOSIS, PREVENTION AND
TREATMENT OF DEAFNESS
Burt, Rachel (Murdoch Childrens Research Institute, VIC)
- 10:30** **SYM-01-02**
THE INSIDIOUS NATURE OF NOISE DAMAGE: HOW AUDITORY
THRESHOLDS DON'T TELL THE WHOLE STORY
Liberman, M Charles (Massachusetts Eye and Ear Infirmary,
USA)
- 11:00** **SYM-01-03**
CELLS, CIRCUITS, AND CENTRAL AUDITORY PLASTICITY
Muniak, Michael (Garvan Institute of Medical Research,
NSW)
- 11:30** **SYM-01-04**
COCHLEAR IMPLANTS, COGNITION, AND THE CONUNDRUM
OF WHICH EAR TO IMPLANT
McMahon, Catherine*, Boisvert, A., Lyxell, B., Dowell, R. and
Tavora-Vieira, D. (*Macquarie University, NSW)

WEDNESDAY 29 JANUARY 2014

10:00-12:00 SYMPOSIUM 2

THE LOWS AND HIGHS OF GLUCOSE HOMEOSTASIS: HOW THE BRAIN CONTROLS BLOOD SUGAR

Chairs: Dr. Larisa Bobrovskaya, University of South Australia, SA
Co-Chair: to be advised

Location: Hall D

10:00 **SYM-02-01**
HYPOGLYCEMIA IN DIABETES: RISKS, MANAGEMENT AND
PREVENTION
Jones, Timothy (University of Western Australia, WA)

10:30 **SYM-02-02**
BULBOSPINAL CIRCUITRY INVOLVED IN THE
COUNTER-REGULATORY RESPONSE
Llewellyn-Smith, Ida (Flinders University, SA)

11:00 **SYM-02-03**
ADRENALINE AND THE GLUCOSE COUNTER-REGULATORY
RESPONSE: AN OREXINERGIC CONNECTION
Verberne, Tony*, Sabetghadam, A. and Korim, W.
(*University of Melbourne, VIC)

11:30 **SYM-02-04**
CIRCUITRY AND MECHANISMS OF GLUCOSE HOMEOSTASIS:
KEY ROLES FOR HINDBRAIN CATECHOLAMINE NEURONS
Ritter, Sue (Washington State University, USA)

WEDNESDAY 29 JANUARY 2014

10:00-12:00 **SYMPOSIUM 3**

NEURODEVELOPMENTAL DISORDERS: TRACING THE DEVELOPMENTAL TRAJECTORY FROM GENES TO BEHAVIOUR

Chairs: Prof. Valsamma Eapen, University of New South Wales, NSW
 Prof. Bernhard Baune, University of Adelaide, SA

Location: Meeting Room 1/2

10:00 **SYM-03-01**
GENETIC, NEURAL AND HORMONAL INFLUENCES ON SOCIAL COGNITION

Skuse, David (Institute of Child Health, UK)

10:30 **SYM-03-02**
AUTISM AND SCHIZOPHRENIA: CONVERGENCES AND DIVERGENCES IN NEURODEVELOPMENTAL DISORDERS
Lenroot, Rhoshel (University of New South Wales, NSW)

11:00 **SYM-03-03**
RISK & RESILIENCE BIOMARKERS IN NEUROPSYCHIATRY - PREDICTING THE RISK FOR AUTISM SPECTRUM DISORDER
Pantelis, Christos*, Skafidas, E., Testa, R., Zantomio, D., Chana, G., Bousman, C. and Everall, I. (*University of Melbourne, Florey Institute for Neuroscience & Mental Health, VIC)

11:30 **SYM-03-04**
TRANSCRIPTIONAL NETWORKS IN AUTISM SPECTRUM DISORDERS
Voineagu, Irina (University of New South Wales, NSW)

WEDNESDAY 29 JANUARY 2014

10:00-12:00 SYMPOSIUM 4

ANTIBODY-ASSOCIATED DISORDERS OF THE NERVOUS SYSTEM

Chair: Dr. Thomas Fath, University of New South Wales, NSW

Location: Meeting Room 10

- 10:00** **SYM-04-01**
AUTOANTIBODIES IN AUTOIMMUNE MOVEMENT AND
PSYCHIATRIC DISORDERS
Brilot, Fabienne*, Pathmanandavel, K., Ramanathan, S.,
Merheb, V., Mohammad, S., Pillai, S., Tantsis, E. and Dale, R.
(*Children's Hospital at Westmead– University of Sydney,
NSW)
- 10:30** **SYM-04-02**
MOLECULAR SIGNATURES OF SYSTEMIC AUTOANTIBODIES
ASSOCIATED WITH NEUROLOGICAL SYNDROMES
Gordon, Tom (Flinders Medical Centre, SA)
- 11:00** **SYM-04-03**
FUNCTIONAL EFFECTS OF AUTOANTIBODIES AGAINST MYELIN
PROTEOLIPID PROTEIN IN MULTIPLE SCLEROSIS
Greer, Judith*, Muller, D., Trifilieff, E. and Pender, M.
(*University of Queensland, BNE)
- 11:30** **SYM-04-04**
ANTIBODIES TO MUSK DISRUPT THE FUNCTIONAL
HOMEOSTASIS OF THE MATURE NEUROMUSCULAR SYNAPSE
Reddel, Stephen*, Morsch, M., Cole, R., Ghazanfari, N., Ngo,
S., Cheng, A., Tokya, K. and Phillips, W. (*University of
Sydney, NSW)

WEDNESDAY 29 JANUARY 2014

10:00-12:00 SYMPOSIUM 5

TRANSPORTERS IN THE BRAIN: MECHANISMS & THERAPIES

Chair: Dr. Ruth Empson, University of Otago, NZ

Location: Meeting Room 11

10:00 SYM-05-01

NEURONAL INHIBITION IN MOUSE BRAIN IS ENHANCED BY KCC2

Moorhouse, Andrew*, Watanabe, M., Khoshaba, A., Cheung, D., Nakamura, K. and Nabekura, J. (*University of New South Wales, NSW)

10:30 SYM-05-02

THE ROLE OF THE SODIUM CALCIUM EXCHANGER (NCX) IN RESPONSE TO STROKE/CEREBRAL ISCHAEMIA

Cross, Jane*, Knuckey, N. and Meloni, B. (*University of Western Australia, WA)

11:00 SYM-05-03

PROBING THE LOCATION OF THE GLUTAMATE TRANSPORTER CHLORIDE CHANNEL

Ryan, Renae*, Cater, R. and Vandenberg, R. (*University of Sydney, NSW)

11:30 SYM-05-04

GLUTAMATE TRANSPORTER DYSFUNCTION IN EPISODIC ATAXIA

Fahlke, Christoph* and Kovermann, P. (*Institute of Complex Systems - Forschungszentrum Jülich, GERMANY)

WEDNESDAY 29 JANUARY 2014

10:00-12:00 SYMPOSIUM 6

RESPIRATORY CONTROL IN HEALTH AND DISEASE

Chair: Stuart Mazzone, University of Queensland, QLD
Location: Meeting Room 3

- 10:00 SYM-06-01**
ACTIVATION AND PLASTICITY OF AIRWAY VAGAL
NOCICEPTORS
Udem, Bradley (John Hopkins Asthma and Allergy Centre,
USA)
- 10:30 SYM-06-02**
PONTINE CONTROL OF RESPIRATION IN HEALTH AND
DISEASE: AIRFLOW PATTERNING, AIRWAY PROTECTION AND
PLASTICITY
Dutschmann, Mathias*, Bautista, T., Jones, S., Farmer, D. and
Stanic, D. (*Florey Institute of Neuroscience and Mental
Health, VIC)
- 11:00 SYM-06-03**
MECHANISMS OF SENSORIMOTOR DYSFUNCTION IN
PATIENTS WITH OBSTRUCTIVE SLEEP APNOEA
Eckert, Danny, (University of New South Wales, NSW)
- 11:30 SYM-06-04**
PLASTICITY OF SENSORIMOTOR RESPONSES ASSOCIATED
WITH AIRWAY SENSITIVITY AND PERSISTENT COUGH
Farrell, Michael, (Florey Institute of Neuroscience and Mental
Health, VIC)

WEDNESDAY 29 JANUARY 2014

15:30-17:30 ORAL 1

AUTONOMIC NEUROENDOCRINE SYSTEMS I

Chair: Prof. Jacqueline Phillips, Macquarie University, NSW
Location: Hall E

- 15:30 ORAL-01-01**
SPONTANEOUS Ca^{2+} WAVES PROPAGATE BETWEEN
ADJACENT NEURAL CREST-DERIVED CELLS DURING ENTERIC
NERVOUS SYSTEM DEVELOPMENT BUT ARE NOT MEDIATED
BY GAP JUNCTIONS
Hao, Marlene*, Bergner, A., Foong, J., Vanden Berghe, P.,
Bornstein, J. and Young, H. (*KU Leuven, BELGIUM)
- 15:45 ORAL-01-02**
SPINAL AFFERENTS STIMULATE MAST CELLS TO RELEASE
PARACRINE MODULATORS IN THE ENTERIC NERVOUS SYSTEM
(ENS)
Wood, Jackie*, Wang, G. and Wang, (*Ohio State University,
USA)
- 16:00 ORAL-01-03**
EVIDENCE THAT THE GHRELIN RECEPTOR AGONIST
ULIMORELIN STIMULATES SPINAL CORD DEFECATION
CENTRES
Callaghan, Brid*, Pustovit, R., Kosari, S., Rivera, L., Thomas,
H., Brock, J. and Furness, J. (*University of Melbourne, VIC)
- 16:15 ORAL-01-04**
TREATMENT OF TNBS-COLITIS WITH BONE MARROW
MESENCHYMAL STEM CELLS AND CONDITIONED MEDIUM
PREVENTS ENTERIC NEUROPATHY IN GUINEA-PIGS
[†]**Miller, Sarah***, Robinson, A., Sakkal, S., Jovanovska, V.,
Park, A., Carbone, ., Boyd, R., Bernard, C. and Nurgali, K.
(*Victoria University, VIC)

WEDNESDAY 29 JANUARY 2014

16:30

ORAL-01-05

INHIBITION OF DORSOMEDIAL HYPOTHALAMUS, BUT NOT OF DORSOLATERAL PERIAQUEDUCTAL GREY, SUPPRESSES RESPIRATORY RESPONSE TO ALERTING STIMULI AND STRESS IN CONSCIOUS RATS

[†]**Bondarenko, Evengy***, Guimaraes, D., Braga, V., Hodgson, D. and Nalivaiko, E. (*University of Newcastle, NSW)

16:45

ORAL-01-06

INVESTIGATING THE ORIGIN OF CARDIAC VAGAL TONE

Farmer, David*, McAllen, R. and Dutschmann, M. (*Florey Institute of Neuroscience and Mental Health, VIC)

17:00

ORAL-01-07

INCREASED RESPIRATORY MODULATION OF SYMPATHETIC ACTIVITY VIA CATECHOLAMINERGIC C1 NEURONS DURING EARLY LIFE PARTICIPATES TO THE DEVELOPMENT OF HYPERTENSION IN THE SPONTANEOUSLY HYPERTENSIVE RAT

Menuet, Clement*, Jancovski, N., Bassi, J., Connelly, A. and Allen, A. , (*University of Melbourne, VIC)

17:15

ORAL-01-08

IDENTIFYING SITES IN THE BRAIN RESPONSIBLE FOR THE INCREASE IN MUSCLE SYMPATHETIC NERVE ACTIVITY IN OBSTRUCTIVE SLEEP APNOEA

[†]**Fatouleh, Rania***, Lundblund, L., Macefield, V., McKenzie, D. and Henderson, L. (*University of Western Sydney, NSW)

[†] Indicates that presenter is a student

WEDNESDAY 29 JANUARY 2014

15:30-17:30 ORAL 2

CLINICAL DISORDERS & INJURY OF THE NERVOUS SYSTEM I

Chair: Dr. Renee Turner, University of Adelaide, SA
Location: Hall D

- 15:30 ORAL-02-01**
AGE-DEPENDENT SOCIAL DEFICITS AFTER TRAUMATIC BRAIN INJURY IN YOUNG MICE
Semple, Bridgette*, Sam, P., Gimlin, K., Adahman, Z., Hollingsworth, C., Schenk, A. and Noble-Haesslein, L. (*University of California, USA)
- 15:45 ORAL-02-02**
IN VIVO DIFFUSION TENSOR IMAGING OF LESION SITE DEVELOPMENT AFTER SPINAL CORD INJURY
Ruitenberg, Marc*, Brennan, F., Cowin, G. and Kurniawan, N. (*University of Queensland, QLD)
- 16:00 ORAL-02-03**
SPECTRUM OF SHORT- AND LONG-TERM BRAIN PATHOLOGY AND LONG-TERM BEHAVIOURAL DEFICITS IN MALE REPEATED RATS CLOSELY RESEMBLING HUMAN EXTREME PREMATURITY
Oorschot, Dorothy*, Voss, L., Covey, M., Goddard, L., Huang, W., Birchall, P., Bilkey, D. and Kohe, S. (*University of Otago, NZ)
- 16:15 ORAL-02-04**
TWO DIFFERENT MODELS OF TRAUMATIC BRAIN INJURY INDUCE SIMILAR DEFICITS IN SENSORY PROCESSING IN THE POST-INJURY PERIOD
Yan, Edwin* Johnstone, V., Shultz, S., O'Brien, T. and Raman, R. (*Monash University, VIC)

WEDNESDAY 29 JANUARY 2014

16:30

ORAL-02-05

RESPONSE OF ENDOGENOUS NEURAL PROGENITOR CELLS TO TRAUMATIC SPINAL CORD INJURY

Gorrie, Catherine*, Mao, Y., Matthews, K. and Cawsey, T.
(*University of Technology, Sydney, NSW)

16:45

ORAL-02-06

TREATMENT WITH COMBINED EPO AND BDNF SUPPORTS HIPPOCAMPAL NEUROGENESIS AND IMPROVES FUNCTIONAL OUTCOME FOLLOWING FOCAL TBI

Bye, Nicole*, Conquest, A., Gotama, A., Rosenfeld, J. and Morganti-Kossmann, C. (*National Trauma Research Institute, Alfred Hospital, VIC)

17:00

ORAL-02-07

PHARMACEUTICAL MODULATION OF AQUAPORINS 4 & 1 ATTENUATES CEREBRAL OEDEMA AND NEUROLOGICAL OUTCOME FOLLOWING ACUTE TRAUMATIC BRAIN INJURY

[†]**Burton, Joshua Luc***, Vink, R. and Yool, A. (*University of Adelaide, SA)

17:15

ORAL-02-08

ACTIVITY-DEPENDENT PLASTICITY INDUCES FUNCTIONAL CHANGES IN THE INJURED BRAIN

[†]**Alwis, Dasuni***, Johnstone, V., Carron, S., Yan, E., Hellewell, S., Morganti-Kossmann, C. and Rajan, R. (*Monash University, VIC).

[†]Indicates that presenter is a student

WEDNESDAY 29 JANUARY 2014

15:30-17:30

ORAL 3

COGNITION, LEARNING & BEHAVIOUR I

Chair: A/Prof. Darryl Eyles, University of Queensland, QLD

Location: Meeting Room 1/2

15:30

ORAL-03-01

ACCELERATION OF HABIT LEARNING FOLLOWING COCAINE SENSITIZATION AND REVERSAL BY N-ACETYLCYSTEINE

Corbit, Laura*, Chieng, B. and Balleine, B. (*University of Sydney, NSW)

15:45

ORAL-03-02

PRESENCE OF IMMATURE HIPPOCAMPAL NEURONS IN THE ADULT MOUSE BRAIN IS IMPORTANT FOR LEARNING

Vukovic, Jana*, Borlikova, G., Ruitenberg, M., Robinson, G., Sullivan, R., Walker, T. and Bartlett, P. (*University of Queensland, QLD)

16:00

ORAL-03-03

CHRONIC INTERMITTENT TOLUENE INHALATION DURING ADOLESCENCE IN RATS RESULTS IN LONG-TERM GLUTAMATERGIC DYSFUNCTION AND SPECIFICALLY ALTERS REWARD-BASED LEARNING

Duncan, Jhodie*, Dick, A., Axelsson, M., Gibbs, S. and Lawrence, A. (*University of Melbourne, VIC)

16:15

ORAL-03-04

'ADDICTION-LIKE' DEFICITS IN BEHAVIOUR AND SYNAPTIC PLASTICITY IN OBESITY PRONE RATS

Brown, Robyn*, Kupchik, Y., Spencer, S., Garcia-Keller, C., Schwartz, D., Jordan, K., Jhou, T. and Kalivas, P. (*University of Melbourne, VIC)

WEDNESDAY 29 JANUARY 2014

16:30

ORAL-03-05

NEUROADAPTATIONS FOLLOWING MDMA ('ECSTASY') SELF-ADMINISTRATION

Schenk, Susan*, Aronsen, D. and Webster, J. (*Victoria University of Wellington, NZ)

16:45

ORAL-03-06

EXTENDED EXPOSURE TO CAFFEINE AND SUCROSE RESULTS IN PERSISTENT CHANGES TO NEUROBIOLOGY AND AN AGE DEPENDENT RESPONSE TO ACUTE METHAMPHETAMINE CHALLENGE

[†]**Franklin, Jane***, Mirzaei, M., Wearne, T., Homewood, J., Goodchild, A., Haynes, P. and Cornish, J. (*Macquarie University, NSW)

17:00

ORAL-03-07

ADULT VITAMIN D DEFICIENCY AND COGNITIVE DYSFUNCTION IN A MOUSE MODEL

Burne, Thomas*, McGrath, J. and Groves, N. (*University of Queensland, QLD)

17:15

ORAL-03-08

ADDITIVE EFFECTS OF PRENATAL IMMUNE ACTIVATION AND MATERNAL IRON DEFICIENCY ON NEURODEVELOPMENTAL MILESTONES AND ADULT BEHAVIOUR IN RAT OFFSPRING

[†]**Harvey, Louise*** and Boksa, P. (*McGill University, CANADA)

[†]Indicates that presenter is a student

WEDNESDAY 29 JANUARY 2014

15:30-17:30 ORAL 4

CLINICAL DISORDERS & INJURY OF THE NERVOUS SYSTEM II

Chair: Dr Giuseppe Verdile, Curtin University, WA

Location: Meeting Room 10

- 15:30 ORAL-04-01**
MONITORING PD-RELEVANT PHENOTYPES IN iPSC-GENERATED NEURONS FROM A SPECTRUM OF PARKINSON'S DISEASE PATIENTS FOR DRUG SCREENING AND FOR UNDERSTANDING THE BIOLOGY OF PD
Shevde, Nirupama*, Hermanson, S., Thompson, D., Langston, J., Hammer, B., Vogel, K., Schule, B. and Bi, K (*Life Technologies, VIC)
- 15:45 ORAL-04-02**
TAU MEDIATES EXCITOTOXIC NEURONAL DEATH IN ALZHEIMER'S DISEASE AND STROKE
Ittner, Lars*, Gladbach, A., Ke, Y., van Eersel, J. and Ittner, A. (*University of New South Wales, NSW)
- 16:00 ORAL-04-03**
RESTORATION OF GASTROINTESTINAL FUNCTION IN MPTP MODEL OF PARKINSON'S DISEASE
Lawson, Victoria*, Ellett, L., Hung, L., Munckton, R., Furness, J., Finkelstein, D. and Barnham, K. (*University of Melbourne, VIC)
- 16:15 ORAL-04-04**
THE ROLE OF ANAESTHESIA IN EXACERBATION OF AD PATHOLOGY IN A TRANSGENIC MOUSE MODEL OF AMYLOID PLAQUE DEPOSITION
King, Anna*, Fernandez-Martos, C., Hanson, K., Woodhouse, A. and Vickers, J. (*University of Tasmania, TAS)

WEDNESDAY 29 JANUARY 2014

16:30

ORAL-04-05

BACE1 REGULATES THE PROTEOLYTIC PROCESSING OF P75NTR VIA INTERACTING WITH ITS EXTRACELLULAR DOMAIN

[†]**Saadipour, Khalil***, Lim, L., Liu, J., Wang, Y., Keating, D., Wang, Y. and Zhou, X. (*University of South Australia, SA)

16:45

ORAL-04-06

IN VIVO ANALYSIS OF THE PRESENILINS USING ZEBRAFISH REVEALS NOVEL FUNCTIONS

Newman, Morgan*, Moussavi Nik, S., Wilson, L., Ebrahimie, E., Verdile, G., Chapman, G., Martins, R. and Lardelli, M. (*University of Adelaide)

17:00

ORAL-04-07

VALIDATION OF P75NTR EXTRACELLULAR DOMAIN AS A THERAPEUTIC TARGET FOR ALZHEIMER'S DISEASE

[†]**Wang, Yan-Jiang***, Yao, X., Jia, S., Wang, Q., Zeng, F., Wang, Y., Saadipour, K., Zhong, J., Zhou, H. and Zhou, X. (*Daping Hospital and Institute of Field Surgery, CHINA)

17:15

ORAL-04-08

ZINC DYSHOMEOSTASIS CAUSED BY PARKINSONISM-ASSOCIATED ATP13A2 (PARK9) DEFICIENCY UNDERLIES MITOCHONDRIAL DYSFUNCTION

Park, Jin-Sung*, Koentjoro, B. and Sue, C. (*University of Sydney, NSW)

[†]Indicates that presenter is a student

WEDNESDAY 29 JANUARY 2014

15:30-17:30

ORAL 5

EXCITABILITY & SYNAPTIC TRANSMISSION I

Chair: A/Prof Chris Reid, Florey Institute of Neuroscience & Mental Health, VIC

Location: Meeting Room 11

15:30

ORAL-05-01

QUANTAL CURRENT TO VOLTAGE TRANSFORMATIONS AT NEUROMUSCULAR JUNCTIONS

Karunanithi, Shanker*, Noakes, P. and Atwood, H.
(*University of Toronto, CANADA)

15:45

ORAL-05-02

PERSISTENCE INCREASE IN EXCITATORY DRIVE TO OREXIN NEURONS FOLLOWING COCAINE

†Yeoh, Jiann Wei*, Bains, J., Graham, B. and Dayas, C.
(*University of Newcastle, NSW)

16:00

ORAL-05-03

MODULATION OF SYNAPTIC TRANSMISSION AND NEUROEXCITABILITY BY ANGIOTENSIN II IN THE NUCLEUS OF THE SOLITARY TRACT OF MICE

†Carter, David*, Fong, A., McDougall, S. and Allen, A.
(*University of Melbourne, VIC)

16:15

ORAL-05-04

DENDRITIC ACTIVITY IN CORTICAL NETWORKS

Palmer, Lucy* (Florey Institute of Neuroscience and Mental Health, VIC)

WEDNESDAY 29 JANUARY 2014

16:30

ORAL-05-05

CANNABINOIDS MODULATE QUANTAL SIZE AT THE MOUSE NEUROMUSCULAR SYNAPSE IN HEALTH AND DISEASE

Morsch, Marco*, Protti, D., Reddel, S. and Phillips, W.
(*University of Sydney, NSW)

16:45

ORAL-05-06

THE DYNAMIC MODULATION OF POSTSYNAPTIC GLYCINE RECEPTOR CLUSTERING

[†]**Nakahata, Yoshihisa***, Ishibashi, H., Hirata, H. and Nabekura, J.
(*National Institute for Physiological Sciences, JAPAN)

17:00

ORAL-05-07

ELECTRICAL STIMULATION ALTERS PATTERNS OF EPILEPTIFORM ACTIVITY IN THE PIRIFORM CORTEX IN VITRO

[†]**Robertson, Jennifer***, Bekkers, J. (*Eccles Institute of Neuroscience, JCSMR, ANU, ACT)

17:15

ORAL-05-08

THE ROLE OF THE NEURAL CELL ADHESION MOLECULE 2 IN REGULATION OF THE MOLECULAR COMPOSITION OF GLUTAMATERGIC SYNAPSES

Leshchyns'ka, Iryna*, Young, K. and Sytnyk, V. (*University of New South Wales, NSW)

[†]Indicates that presenter is a student

WEDNESDAY 29 JANUARY 2014

15:30-17:30

ORAL 6

GLIA I

Chair: Dr Mark Hutchinson, University of Adelaide, SA
Location: Meeting Room 3

15:30

ORAL-06-01

MOLECULAR MECHANISMS IN THE TRANSCRIPTIONAL
CONTROL OF CNS MYELINATION

[†]Koenning, Matthias*, Bujalka, H., Jackson, S., Perreau, V.,
Hay, C., Mitew, S., Willingham, M., Wegner, M., Barres, B. and
Emery, B. (*University of Melbourne)

15:45

ORAL-06-02

WIDESCALE REMODELLING OF ASTROCYTE NETWORKS IN
RESPONSE TO CHRONIC STRESS INDUCED DISTURBANCE OF
GLUTAMATERGIC NEUROTRANSMISSION: ADAPTIVE
REORGANISATION OR EARLY PATHOLOGY?

Walker, Rohan*, Nilsson, M., Tynan, R., Hinwood, M.,
Kongsui, R., Jones, K., Patience, M., Mayhew, J. and Kuter, P.
(*University of Newcastle, NSW)

16:00

ORAL-06-03

5-FU-INDUCED MUCOSITIS LEADS TO SPINAL GFAP
EXPRESSION CHANGES IN RATS

[†]Bajic, Juliana*, Eden, J., Lampton, L., Abimosleh, S., Howarth,
G. and Hutchinson, M. (*University of Adelaide, SA)

16:15

ORAL-06-04

OLIGODENDROCYTE PROGENITOR CELL PROCESS MOTILITY
AND SYNAPTOGENESIS IS INFLUENCED BY LOCAL NEURO
TRANSMITTER RELEASE

Gasparini, Robert*, Cobden-Watts, F., Foa, L. and Young, K.
(*Menzies Research Institute Tasmania, TAS)

WEDNESDAY 29 JANUARY 2014

16:30

ORAL-06-05

THE EFFECTS OF PULSED MAGNETIC FIELDS (PMFs) ON ASTROCYTE MIGRATION AND PROLIFERATION, IN AN IN VITRO INJURY MODEL

[†]**Penstone, Tamasin***, Bates, K., Fuller, P., Harvey, A. and Rodger, J. (*University of Western Australia, WA)

16:45

ORAL-06-06

CURCUMIN STIMULATES PROLIFERATION, MIGRATION AND PHAGOCYTIC ACTIVITY OF OLFACTORY ENSHEATHING CELLS

[†]**Tello Velasquez, Johana***, StJohh, J., Ekberg, J. and Quinn, R. (*Griffith University, QLD)

17:00

ORAL-06-07

670nm LIGHT REDUCES MIGRATION, PROLIFERATION AND GLIOSIS OF HUMAN GLIA CELLS OF THE EYE IN VITRO

[†]**Biswas-Legrand, Sunita***, Yen-Zhen, L., Madigan, M. and Valter, K. (*Australian National University, ACT)

17:15

ORAL-06-08

THE BDNF MIMETIC TDP6 SPECIFICALLY BINDS TO TRKB AND PROMOTES OLIGODENDROCYTE MYELINATION

Wong, Agnes*, Seah, W., Wood, R., Giuffrida, L., Hughes, T., Mulcair, M., Scanlon, M., Murray, S. and Xiao, J. (*University of Melbourne, VIC)

[†]Indicates that presenter is a student

THURSDAY 30 JANUARY 2014

From 08:00 **REGISTRATION**
Location: **Foyer H**

08:30 - 09:30 **PLENARY 3**

THE ANS PLENARY LECTURE

Chair: Prof. Ian Gibbins, Flinders University, SA
Location: Hall E

PLE-THU-03

20/20 insight in Neurogastroenterology

Costa, Marcello (University of Melbourne, VIC)

Marcello Costa



Marcello Costa was born in Torino, Italy, where in 1967 he obtained his Medical Degree (Laurea in Medicina e Chirurgia). After migrating to Australia in 1970, Marcello was involved in the foundation of the Australian Neuroscience Society, held the position of President. He holds a personal chair in Neurophysiology at Flinders University. Throughout his career he has published 246 scientific peer reviewed papers, 74 reviews and chapters, two books, invited to speak at 40 national and 70 international conferences. Since 1975, he has taught at Flinders and coordinated most topics in Neuroscience at the School of Medicine. He was part of the editorial board of several scientific journals including Neuroscience (official journal for IBRO)between 1980-2000. Started as a pioneer in research on the nervous control of digestive functions, he is still actively involved, being currently recipient of ARC and of NH&MRC grants with a team of several senior colleagues from four institutions. Other highly regarded commendations include being made Fellow of the Australian Academy of Science in 1988, receiving a Centenary Medal in 2003; been asked to form a South Australian Neuroscience virtual Institute in 2003; and in 2006 was the recipient of a medal for his services to Flinders University. Together with Ian Gibbins he received the “Unsung Hero of South Australian Science Communication” award for 2008 with the National Science Week. Also he was one of five founders for the Friends of Science in Medicine in 2011 which now has over 1000 Friends in academia. Currently, Marcello sits on the advisory board for the Science and Media Centre. He continues to write many articles in magazines, and gives public seminar on neuroscience and society.

THURSDAY 30 JANUARY 2014

10:00-12:00 SYMPOSIUM 7

ANS PRESIDENTIAL SYMPOSIUM: BIONIC & COMPUTATIONAL VISION

Introduction: ANS President Prof. John Rostas
Chairs: Dr Steven Wiederman, University of Adelaide, SA
 Prof. David O'Carroll, University of Adelaide, SA
Location: Hall E

- 10:00** **SYM-07-01**
VISUAL REPRESENTATION IN THE MACAQUE AND HUMAN
CORTEX
Schwartz, Eric, (Boston University, USA)
- 10:30** **SYM-07-02**
SUPERIOR VISUAL PERFORMANCE IN NOCTURNAL INSECTS:
NEURAL PRINCIPLES AND BIO-INSPIRED TECHNOLOGIES
Warrant, Eric, (University of Lund, SWEDEN)
- 11:00** **SYM-07-03**
BIONIC VISION AUSTRALIA PROTOTYPE SUPRACHROIDAL
WIDE-VIEW RETINAL IMPLANT STUDY
Burkitt, Anthony, (University of Melbourne, VIC)
- 11:30** **SYM-07-04**
SYNCHRONY AND EVENT-BASED SILICON RETINA VISION
SENSORS
Delbruck, Tobj, (University of Zurich and ETH Zurich,
SWITZERLAND)

THURSDAY 30 JANUARY 2014

10:00-12:00 SYMPOSIUM 8

TRANSLATIONAL RESEARCH IN DEPRESSION: STEM CELLS, GENES, BEHAVIOUR AND DRUG RESPONSE

Chair: Prof. Ma-Li Wong, SAHMRI, SA

Location: Hall D

- 10:00 SYM-08-01**
PHENOTYPIC AND FUNCTIONAL HETEROGENEITY AMONGST
QUIESCENT PRECURSOR CELLS IN THE ADULT HIPPOCAMPUS:
IMPLICATIONS FOR THE TREATMENT OF MOOD DISORDERS
Jhaveri, Dhanisha*, Newcombe, E., Robinson, G., O'Keeffe, I.,
Zhao, Q., Zhang, Z., Nink, V., Wray, N. and Bartlett, P.
(*University of Queensland, QLD)
- 10:30 SYM-08-02**
GENETICS OF DEPRESSION: THINKING OUTSIDE THE BOX
Wray, Naomi (University of Queensland, QLD)
- 11:00 SYM-08-03**
IMMUNE FUNCTION AND DEPRESSION: A SYSTEMS
APPROACH TO THE TRANSLATION OF MENTAL HEALTH
NEUROSCIENCE
Baune, Bernard (University of Adelaide, SA)
- 11:30 SYM-08-04**
PHARMACOGENOMICS OF DEPRESSION: TRANSLATING
GENOMIC SCIENCE INTO PERSONALIZED THERAPEUTICS
Licinio, Julio* and Wong, M. (*SAHMRI, SA)

THURSDAY 30 JANUARY 2014

10:00-12:00

SYMPOSIUM 9

THE MANY FACES OF THE OREXIN SYSTEM

Chair: Emeritus Prof. Roger Dampney, University of Sydney, NSW
Location: Meeting Room 1/2

10:00

SYM-09-01

THE PHYSIOLOGICAL ROLE OF OREXIN/HYPOCRETIN
NEURONS ON SLEEP/WAKEFULNESS REGULATION

Yamanaka, Akihiro*, Tsunematsu, T. and Tabuchi, S.
(*Nagoya University, JAPAN)

10:30

SYM-09-02

THE CONTRIBUTION OF OREXIN SYSTEM TO INTEGRATED
ULTRADIAN PHYSIOLOGICAL PATTERN

Ootsuka, Youichirou*, Miyata, K., Ikoma, Y., Kuwaki, T. and
Yamanaka, A. (*Flinders University, SA)

11:00

SYM-09-03

THE ROLES OF OREXIN1 AND OREXIN2 RECEPTORS IN
CONSUMMATORY AND APPETITIVE BEHAVIOUR

Lawrence, Andrew*, Khoo, S., Kim, A., Jupp, B., Kim, J. and
Brown, R. (*Florey Institute of Neuroscience & Mental Health,
VIC)

11:30

SYM-09-04

ROLE OF OREXIN AND ITS RECEPTORS IN THE
CARDIOVASCULAR RESPONSE TO PSYCHOLOGICAL STRESS

Carrive, Pascal (University of New South Wales, NSW)

THURSDAY 30 JANUARY 2014

10:00-12:00 SYMPOSIUM 10

NEURONAL TRAFFICKING IN SYNAPTIC PLASTICITY, LEARNING & MEMORY

Chair: Dr. Adam Cole, Garvan Institute of Medical Research, NSW

Location: Meeting Room 10

10:00 SYM-10-01

RECEPTORS, SYNAPSES AND MEMORY

Huganir, Richard (John Hopkins University School of Medicine, USA)

10:30 SYM-10-02

PROBING THE MICROENVIRONMENTAL FORCES APPLIED TO SECRETORY VESICLES ON THEIR JOURNEY TO THE PLASMA MEMBRANE: MYOSIN VI, A GRABBING CLAW

Meunier, Frederic* and Tomatis, V. (*University of Queensland, QLD)

11:00 SYM-10-03

PRESYNAPTIC TRAFFICKING PATHWAYS IN SYNAPTIC VESICLE BIOGENESIS

Robinson, Phil*, Xue, J., Quan, A., Engholm-Keller, K., Graham, M., Yang, X. and Miller, L. (*Children's Medical Research Institute, NSW)

11:30 SYM-10-04

REGULATION OF AMPA RECEPTOR FUNCTION BY PROTEIN UBIQUITINATION

Anggono, Victor (The University of Queensland, QLD)

THURSDAY 30 JANUARY 2014

10:00-12:00 SYMPOSIUM 11

THE BIG BANG: A FORAY INTO HOW PRECEPTS COLLIDE TO GIVE RISE TO EMBODIED SENSORY EXPERIENCE

Chair: Ms Flavia Di Pietro, University of South Australia, SA
Location: Meeting Room 11

- 10:00** **SYM-11-01**
MULTIPLE REPRESENTATIONS - BODILY AWARENESS AND SPATIAL PERCEPTION IN HEALTH AND DISEASE
Moseley, Lorimer (University of South Australia, SA)
- 10:30** **SYM-11-02**
THE MALLEABLE SELF AND THE EXPERIENCE OF SOMATIC CONTAGION
Giummarra, Melita (Monash University, VIC)
- 11:00** **SYM-11-03**
PERCEPTUAL DISTORTIONS OF THE BODY IN PAIN: THE ROLE OF MULTISENSORY ILLUSIONS
Stanton, Tasha*, Gilpin, H., Moseley, L. and Newport, R.
(*University of South Australia, SA)
- 11:30** **SYM-11-04**
WHY DO HAPTICS MATTER? A LOOK AT THE 'VISUAL' BODY TOUCH
Bellan, Valeria (University of Milano, ITALY)

THURSDAY 30 JANUARY 2014

10:00-12:00 SYMPOSIUM 12

TRAFFICKING & LOCAL TRANSLATION OF MRNA IN NEURODEGENERATIVE DISEASE

Chair: A/Prof Peter R. Dodd, University of Queensland, QLD
Location: Meeting Room 3

- 10:00 SYM-12-01**
A PATHOGENIC MECHANISM FOR CGG REPEAT EXPANSION DISORDERS
Carson, John*, Barbarese, E. and Norman, R. (*University of Connecticut Health Center, USA)
- 10:30 SYM-12-02**
TUMOR OVEREXPRESSED GENE (TOG) PROTEIN IS REQUIRED FOR RNA GRANULE ASSEMBLY AND TRANSLATION IN NEURAL CELLS
Barbarese, Elisa*, Carson, J., Ifrim, M., Hsieh, L., Maggipinto, M. and Weyman-Tutolo, J. (*University of Connecticut Health Center, USA)
- 11:00 SYM-12-03**
SYNAPTIC PROFILING OF mRNA AND miRNA IN ALZHEIMER'S DISEASE
Hynd, Matthew*, Lewohl, J., Ho, A., Chew, C., Smith, R., Rothnagel, J. and Dodd, P. (*University of Queensland, QLD)
- 11:30 SYM-12-04**
ROLES OF hnRNP PARALOGS AS trans-ACTING FACTORS DIRECTING cis-ELEMENT (A2RE)-DRIVEN TRANSPORT OF CYTOPLASMIC mRNA TRAFFICKING GRANULES
Smith, Ross*, Friend, L., Rothnagel, J. and Dodd, P.
*University of Queensland, QLD)

THURSDAY 30 JANUARY 2014

16:00-18:00 SYMPOSIUM 13

A SPECIAL SYMPOSIUM OF THE ANS 2014 LOCAL ORGANISING COMMITTEE
**CONVERGENT & DIVERGENT THEORIES OF ALZHEIMER'S DISEASE: BEYOND
THE AMYLOID HYPOTHESIS?**

Introduction: ANS LOC Chair Dr. Michael Lardelli, University of Adelaide, SA
Chair: Prof. Ralph N. Martins AO, Edith Cowan University, WA
Location: Hall E

- 16:00 SYM-13-01**
A DIFFERENT WAY OF THINKING ABOUT ALZHEIMER DISEASE
Schon, Eric* and Area-Gomez, E. (*Columbia University, USA)
- 16:30 SYM-13-02**
TARGETING ABNORMAL METAL DISTRIBUTION IN
ALZHEIMER'S DISEASE
Bush, Ashley (Florey Institute of Neuroscience & Mental
Health, VIC)
- 16:45 SYM-13-03**
TAU AND ABETA TOXICITY IN ALZHEIMER'S DISEASE
Jürgen, Götz (University of Queensland, QLD)
- 17:00 SYM-13-04**
THE CHOLINERGIC HYPOTHESIS OF ALZHEIMER'S DISEASE:
CAUSE AND EFFECTS OF CHOLINERGIC DEGENERATION IN
ALZHEIMER'S DISEASE
Coulson, Elizabeth (University of Queensland, QLD)
- 17:15 SYM-13-05**
CHRONIC NEUROINFLAMMATION IN ALZHEIMER'S DISEASE -
A THERAPEUTIC TARGET FOR ANTI-INFLAMMATORY
ANTIOXIDANTS?
Muench, Gerald* and Gyengesi, E. (*University of Western
Sydney, NSW)
- 17:30 SYM-13-06**
PANEL DISCUSSION

THURSDAY 30 JANUARY 2014

16:00-18:00 ORAL 7

CLINICAL DISORDERS & INJURY OF THE NERVOUS SYSTEM III

Chair: Prof. Simon Koblar, University of Adelaide, SA

Location: Hall D

- 16:00 ORAL-07-01**
SUBSTANCE P: A NOVEL TARGET IN THE TREATMENT OF
CEREBRAL OEDEMA AND ELEVATED INTRACRANIAL PRESSURE
FOLLOWING STROKE
Turner, Renee*, Leonard, A., Wells, A. and Vink, R.
(*University of Adelaide, SA)
- 16:15 ORAL-07-02**
CEREBRAL OEDEMA: NOT THE PRIMARY CAUSE OF ICP
ELEVATION FOLLOWING ISCHAEMIC STROKE
[†]**Murtha, Lucy***, Mcleod, D., McCabe, C., Holmes, W., Macrae,
I. and Spratt, N. (*University of Newcastle, NSW)
- 16:30 ORAL-07-03**
NPAS4 IS UP-REGULATED IN THE CORTICOLIMBIC SYSTEM OF
THE RODENT BRAIN FOLLOWING FOCAL CEREBRAL
ISCHAEMIA
Klaric, Thomas*, Leong, W., Lewis, M. and Koblar, S.
(*University of Adelaide, SA)
- 16:45 ORAL-07-04**
GLYCOGEN METABOLISM IS IMPAIRED IN THE BRAIN
FOLLOWING FOCAL CEREBRAL ISCHEMIA IN RATS
Roulston, Carli*, Hossain, M. and Stapleton, D. (*University of
Melbourne, VIC)

THURSDAY 30 JANUARY 2014

17:00

ORAL-07-05

EXERCISE IMPROVES LEARNING AND ELEVATES
NEUROGENESIS AFTER AN ENDOTHELIN-1 HIPPOCAMPAL
STROKE MODEL IN ADULT MOUSE

[†]**Codd, Lavinia***, Hamlin, A., Blackmore, D. and Bartlett, P.
(*University of Queensland, QLD)

17:15

ORAL-07-06

A NEW FUNCTION FOR AN OLD ENZYME: SRC PROTEIN
TYROSINE KINASE DIRECTS EXCITOTOXIC NEURONAL DEATH
IN STROKE

Cheng, Heung-Chin*, Hossain, I., Roulston, C., Ng, D., Dusting,
G., Williamson, N. and Hill, A. (*University of Melbourne, VIC)

17:30

ORAL-07-07

PRE-DIFFERENTIATED STEM CELLS SHOW EVIDENCE OF
SYNAPTOGENESIS IN THE STROKE AFFECTED RAT BRAIN BUT
EXTENSIVE SCAR FORMATION IMPEDES FUNCTIONAL
RECOVERY

[†]**Abeyasinghe, Hima***, Bokhari, L., Crook, J., Dusting, G.,
Roulston, C. and Kobayashi, N. (*University of Melbourne,
VIC)

17:45

ORAL-07-08

NEUROCHEMICAL ABNORMALITIES IN RESPIRATORY CENTRES
AFTER HYPERCAPNIC HYPOXIA; IMPLICATIONS FOR OSA &
SIDS.

Machaalani, Rita* and Waters, K. (*University of Sydney,
NSW)

[†]Indicates that presenter is a student

THURSDAY 30 JANUARY 2014

16:00-18:00

ORAL 8

DEVELOPMENT & REGENERATION I

Chair: A/Prof. Helen Cooper, University of Queensland, QLD

Location: Meeting Room 1/2

16:00

ORAL-08-01

NEUROFILIN-2 REGULATES THE AXONAL GUIDANCE OF DORSAL-EXITING MOTOR NEURONS IN THE HINDBRAIN OF AVIAN EMBRYOS

[†]**Haque, Ziaul***, Pu, Q., Vermeren, M. and Huang, R.
(*University of Bonn, GERMANY)

16:15

ORAL-08-02

BACURD2 IS A NOVEL PLAYER DURING CORTICAL DEVELOPMENT, WHICH INFLUENCES THE MIGRATION AND MORPHOLOGICAL DIFFERENTIATION OF CEREBRAL CORTICAL NEURONS

[†]**Gladwyn-Ng, Ivan***, Qu, Z., Li, S. and Heng, J. (*Australian Regenerative Medicine Institute, VIC)

16:30

ORAL-08-03

CHARACTERIZATION OF DISTINCT INTERNEURON SUBTYPES GENERATED IN HUMAN FETAL CORTICAL CULTURES

[†]**Ng, Hui Xuan***, Lee, E., Lewis, R., Chan-Ling, T., Tan, S. and Britto, J. (*Florey Institute of Neuroscience and Mental Health, VIC)

16:45

ORAL-08-04

BUILDING A BRAIN: THE REGULATION OF BRAIN SIZE THROUGH THE SPATIAL CONTROL OF PTEN

Howitt, Jason*, Low, L., Putz, U. and Tan, S. (*Florey Institute of Neuroscience and Mental Health, VIC)

THURSDAY 30 JANUARY 2014

- 17:00** **ORAL-08-05**
THE ROLE OF NEOGENIN IN ADULT NEUROGENESIS AND
PROGENITOR CELL CYCLE
O'Leary, Conor*, Bradford, D., Chen, M., White, A. and
Cooper, H. (*University of Queensland, QLD)
- 17:15** **ORAL-08-06**
SINGLE CELL ANALYSIS OF THE ZEBRAFISH NERVOUS SYSTEM
[†]**Heap, Lucy*** and Scott, E. (*University of Queensland, QLD)
- 17:30** **ORAL-08-07**
THE ROLE OF USP9X IN THE REGULATION OF AXON
SPECIFICATION
[†]**Tan, Men***, Jolly, L., Murtaza, M., Jacques, C., Wood, S.
(*Griffith University, QLD)
- 17:45** **ORAL-08-08**
CALCIUM SIGNALLING MECHANISMS IN SUBVENTRICULAR
ZONE-DERIVED NEURAL PRECURSOR CELLS
[†]**Toppinen, Kelly***, Mackay-Sim, A. and Weible II, M. (*Griffith
University, QLD)

[†] Indicates that presenter is a student

THURSDAY 30 JANUARY 2014

16:00-18:00

ORAL 9

COGNITION, LEARNING & BEHAVIOUR II

Chair: Dr. Oliver Schubert, University of Adelaide, SA
Location: Meeting Room 10

16:00

ORAL-09-01

OPIOID-ACETYLCHOLINE-DOPAMINE INTERPLAY MODULATES
DIRECT PATHWAY NEURONS IN THE NUCLEUS ACCUMBENS
SHELL TO MEDIATE CHOICE BETWEEN ACTIONS

Bertran-Gonzalez, J*, Laurent, V., Chieng, B., and Balleine, B.
(*University of Queensland, QLD)

16:15

ORAL-09-02

THE ROLE OF P75 NEUROTROPHIN RECEPTOR IN
CHOLINERGIC BASAL FOREBRAIN STRUCTURE AND FUNCTION

[†]**Boskovic, Zoran***, Alfonsi, F., Fonseka, S. and Coulson, E.
(*University of Queensland, QLD)

16:30

ORAL-09-03

EFFECTS OF ADOLESCENT SEX HORMONE MANIPULATION ON
DRUG-INDUCED HYPERACTIVITY IN THE BDNF
HETEROZYGOUS MOUSE MODEL OF SCHIZOPHRENIA

Du, Xin*, Van den Buuse, M. and Hill, R. (*Florey Institute of
Neuroscience and Mental Health, VIC)

16:45

ORAL-09-04

DEVELOPMENTAL MANIPULATIONS OF THE DOPAMINE
SYSTEM IN DROSOPHILA LEAD TO PERSISTENT BEHAVIOURAL
ABNORMALITIES IN ADULTS

[†]**Petty, Alice***, van Swinderen, B. and Eyles, D. (*University of
Queensland, QLD)

THURSDAY 30 JANUARY 2014

17:00

ORAL-09-05

SIGNALLING EFFECTS OF TNF- α AND ITS RECEPTORS IN MOOD-LIKE BEHAVIOURS

[†]**Camara, Marielou***, Jaehne, E., Corrigan, F., Anscomb, H. and Baune, B. (*University of Adelaide, SA)

17:15

ORAL-09-06

DOES THE NEURONAL TRANSCRIPTION FACTOR NPAS4 PLAY A ROLE IN CLINICAL DEPRESSION?

Lewis, Martin*, Klaric, T., Jaehne, E. and Koblar, S. (*University of Adelaide, SA)

17:30

ORAL-09-07

AGE-ASSOCIATED CHANGES IN THE STRIATAL CHOLINERGIC SYSTEM AND THEIR EFFECT ON MOTIVATIONAL DECLINE

Matamales, Miriam*, Götz, J. and Bertran-Gonzalez, J. (*University of Queensland, QLD)

17:45

ORAL-09-08

CENTRAL RELAXIN-3 RECEPTOR ACTIVATION IMPAIRS FEAR EXTINCTION IN ADULT RATS

[†]**Rytova, Valeria***, Ong, S., Gundlach, A. and Sherie, M. (*The Florey Institute of Neuroscience and Mental Health, VIC)

[†]Indicates that presenter is a student

THURSDAY 30 JANUARY 2014

16:00-18:00

ORAL 10

CLINICAL DISORDERS & INJURY OF THE NERVOUS SYSTEM IV

Chair: Dr. Louise O'Keefe, University of Adelaide, SA

Location: Meeting Room 11

16:00

ORAL-10-01

IMPACT OF IMMUNE GENETIC VARIABILITY, PATIENT DEMOGRAPHICS AND ENVIRONMENTAL FACTORS ON PAIN SEVERITY IN FIBROMYALGIA - A PILOT STUDY

Coller, Janet*, Kwiatek, R., Cleland, L., Limaye, V., True, B., Lubhan, C., Watkins, L., Mackey, S., Tuke, J., Cuthbert, A. and Hutchinson, M. (*University of Adelaide, SA)

16:15

ORAL-10-02

THE PROTECTIVE EFFECT OF A RARE P2RX7 VARIANT WITH ABSENT FUNCTION IMPLICATES THE P2X7 RECEPTOR IN THE NEUROINFLAMMATION OF MULTIPLE SCLEROSIS

Gu, Ben*, Field, J., Dutertre, S., Kilpatrick, T., Lechner-Scott, J., Scott, R., Stankovich, J., Petrou, S. and Wiley, J. (*Florey Institute of Neuroscience and Mental Health, VIC)

16:30

ORAL-10-03

USP9X IS A NOVEL X-LINKED INTELLECTUAL DISABILITY GENE THAT REGULATES NEURONAL MIGRATION AND AXON GROWTH

Homan, Claire*, Nguyen, L., Raymond, L., Schwartz, C., Raynaud, M., Wood, S., Gecz, J. and Jolly, L. (*University of Adelaide, SA)

16:45

ORAL-10-04

GENE IDENTIFICATION IN EPILEPSY, INTELLECTUAL DISABILITY AND PSYCHIATRIC DISORDERS USING MASSIVELY PARALLEL SEQUENCING REVEALS NEW NEUROLOGICAL PATHWAYS INVOLVED IN THEIR PATHOGENESIS

Heron, Sarah*, Hodgson, B., Bayly, M., Iona, X., Scheffer, I., Berkovic, S., Ricos, M., Dibbens, L. (*University of South Australia, SA)

THURSDAY 30 JANUARY 2014

- 17:00** **ORAL-10-05**
EVIDENCE OF MGLUR5 DYSREGULATION IN SCHIZOPHRENIA
Newell, Kelly*, Matosin, N., Fernandez-Enright, F. and Huang, X. (*University of Wollongong, NSW)
- 17:15** **ORAL-10-06**
DETERMINING HERITABILITY OF INFLAMMATORY BIOMARKERS IN AN AGEING POPULATION USING THE TWIN DESIGN (OLDER AUSTRALIAN TWINS STUDY)
Cohen-Woods, Sarah*, Sachdev, P., Troller, J. and, B, Baune. (*University of Adelaide, SA)
- 17:30** **ORAL-10-07**
THE MOLECULAR NEUROSCIENCE OF GTF2IRD1: A GENE IMPLICATED IN SOCIAL INTERACTION
Palmer, Stephen*, Carmona-Mora, P., Canales, C., Tomasetig, F., Chang, C., Cha, A., Widagdo, J., Hannan, A., Gunning, P., Hardeman, E. (*University of New South Wales, NSW)
- 17:45** **ORAL-10-08**
GAIN-OF-FUNCTION OF KCNT1 AND HUMAN EPILEPSY: GENOTYPE-PHENOTYPE CORRELATION AND PHARMACOLOGICAL REVERSAL WITH QUINIDINE
Milligan, Carol*, Li, M., Gazina, E., Heron, S., Nair, U., Trager, C., Reid, C., Venkat, A., Younkin, D., Dlugos, D., Petrovski, S., Goldstein, D., Dibbens, L., Scheffer, I., Berkovic, S., Petrou, S. (*Florey Institute of Neuroscience and Mental Health, VIC)

[†]Indicates that presenter is a student

THURSDAY 30 JANUARY 2014

16:00-18:00

ORAL 11

SENSORY SYSTEMS I

Chair: Dr Nicholas Price, Monash University, VIC
Location: Meeting Room 3

16:00

ORAL-11-01

PERCEIVED INDEX FINGER SPACING DECREASES OVER TIME
WITH THE GRASP ILLUSION

Gandevia, Simon*, Bulter, A., Heroux, M. and Walsh, L.
(*Neuroscience Research Australia, NSW)

16:15

ORAL-11-02

PRINCIPAL NEURONS OF THE PIRIFORM CORTEX RESPOND
DIFFERENTLY TO ODOUR PRESENTATION IN VIVO

[†]**Huang, Helena*** and Bekkers, J. (*Eccles Institute of
Neuroscience, JCSMR, ANU, ACT)

16:30

ORAL-11-03

EFFECTS OF PARAFLOCCULUS REMOVAL ON HYPERACTIVITY
AFTER ACOUSTIC TRAUMA

[†]**Vogler, Darryl Peter***, Robertson, D. and Mulders, H.
(*University of Western Australia, WA)

16:45

ORAL-11-04

SELECTIVITY OF NEURONS IN MARMOSET PRIMARY AUDITORY
CORTEX FOR INTERAURAL LEVEL DIFFERENCES DEPENDS ON
INTENSITY

Lui, Leo*, Mokri, Y, Reser, D., Rosa, M. and Rajan, R. (*Monash
University, VIC)

THURSDAY 30 JANUARY 2014

17:00

ORAL-11-05

PREDICTING INDIVIDUAL ATTENTIONAL ABILITY: IS THE SIZE OF FUNCTIONAL PRIMARY VISUAL CORTEX A POTENTIAL CORRELATE?

[†]**Verghese, Ashika***, Kolbe, S., Anderson, A., Egan, G. and Vidyasagar, T. (*University of Melbourne, VIC)

17:15

ORAL-11-06

MODULATING SELECTIVE ATTENTION IN AN INSECT NEURON

Wiederman, Steven*, Dunbier, J. and O'Carroll, D. (University of Adelaide, SA)

17:30

ORAL-11-07

INTERACTIONS BETWEEN THE ON AND OFF PATHWAYS ON THE RESPONSE OUTPUT OF GANGLION CELLS OF THE EYE

Huang, Jin*, Pietersen, N. and Protti, D. (*University of Sydney, NSW)

17:45

ORAL-11-08

ORIENTATION ANISOTROPIES IN HUMAN EARLY VISUAL CORTEX DEPEND ON CONTRAST

Maloney, Ryan* and Clifford, C. (*University of Sydney, NSW)

[†]Indicates that presenter is a student

A meeting of minds for better health

The University of South Australia's premier health research concentration, the Sansom Institute, brings together a diverse group of leading scientists to anticipate and respond to the health care needs of a rapidly changing world.

With a growing number of Sansom-based researchers now examining new frontiers in neuroscience, neuropsychology and the body-mind connection, the Institute is fast becoming known as a key player in this burgeoning field, integrating important discoveries in research into clinical practice in areas such as stroke rehabilitation, pain rehabilitation, neurological disease and addiction.

The Sansom's Body In Mind research concentration is focussed on shedding light on how the brain produces pain, conducting fundamental behavioural research in humans to develop better treatments to help the estimated one in five adults who are affected by chronic pain. Areas of interest include teaching people about pain, complex regional pain syndrome, early intervention after injury, chronic back pain, control of homeostasis by cognitive factors, and brain responses to noxious stimuli.

*Research at UniSA's
Sansom Institute aims to
improve management of
problems such as pain, epilepsy,
multiple sclerosis, Alzheimer's
disease, stroke, Parkinson's
disease, drug dependence
and sleep disorders.*

Other researchers across the Institute are involved in a fascinating array of studies at the cutting edge: from exercise physiologists investigating how to harness the mind to optimise exercise and reverse sedentary behaviour; to psychologists examining the use of cognitive behavioural therapy and hypnosis to help treat irritable bowel disease; and pharmacologists, geneticists and neuroscientists working together to uncover the long-term effects of stimulant use.

The Institute is also home to award-winning teams working to develop better treatments for neurological conditions such as epilepsy, Alzheimer's disease and Parkinson's Disease.

Neuroscience is one of five major research themes at the Sansom Institute. Other key themes include: Population Health, Practice and Policy related to health; Pharmaceutical Science and Medicines; Nutrition and Physical Activity; and Indigenous Health.

Their interests are many and varied but what all our researchers share is a desire to improve human health in practical, measurable ways through innovative, outcomes-based research.

For more information about the Sansom Institute for Health Research, visit unisa.edu.au/sansominstitute



University of
South Australia

Sansom Institute
for Health Research

FRIDAY 31 JANUARY 2014

From 09:00 **REGISTRATION**
Location: **Foyer H**

09:30 - 10:30 **PLENARY 4**

ECCLES PLENARY LECTURE

Chair: Prof. John Rostas, President ANS, University of Newcastle, NSW
Location: Hall E

PLE-FRI-04

Producing new neurons in the adult brain: How is it regulated and what is the use?
Bartlett, Perry (University of Queensland, QLD)

Perry Bartlett



Professor Perry Bartlett has been responsible for a series of ground-breaking discoveries in neuroscience, which have often overturned existing dogma and led to a new understanding, particularly in the areas of neuronal precursor regulation and neuron survival in the developing and adult nervous system. Most prominent amongst these, was his laboratory's discovery in 1992 of the presence of stem cells in the adult brain that had the capacity to produce new neurons.

His group was first to isolate and characterise these stem cells in 2001 and more recently revealed the presence of a latent hippocampal stem cell population that influences learning and memory. He is the inaugural Director of the Queensland Brain Institute and holds the Foundation Chair in Molecular Neuroscience at The University of Queensland. Previously he was Head of the Division of Development and Neurobiology at the Walter and Eliza Hall Institute of Medical Research. He is a Fellow of the Australian Academy of Science (FAA), a past NHMRC Senior Principal Research Fellow and ARC Federation Fellow, and a past President of the Australian Neuroscience Society. He has championed interactions with China establishing three joint neuroscience laboratories in China, two with the Chinese Academy of Sciences and one with the Second Military Medical University, where he also holds an Honorary Professorship. He has published 230 papers, many of which have appeared in the most influential journals and have attracted over 11,500 citations. He has an h-index of 55.

FRIDAY 31 JANUARY 2014

11:00-13:00 SYMPOSIUM 14

TACKLING THE ISSUE OF BRAIN CONCUSSION: FROM BENCH TO FIELD-SIDE

Chair: Chair: Prof. Terence J. O'Brien, University of Melbourne VIC
Location: Hall E

- 11:00 SYM-14-01**
STUDYING BIOMARKERS, PATHOPHYSIOLOGICAL
MECHANISMS, AND TREATMENTS FOR CONCUSSION IN
RODENT MODELS
Schultz, Sandy (University of Melbourne, VIC)
- 11:30 SYM-14-02**
MODELLING CHRONIC TRAUMATIC ENCEPHALOPATHY -
SMALL AND LARGE ANIMAL APPROACHES
Vink, Robert*, McAteer, K. and Corrigan, F. (*University of
Adelaide, SA)
- 12:00 SYM-14-03**
NEUROPSYCHOLOGY AND SPORT-RELATED CONCUSSION
Gardner, Andrew (University of Newcastle, NSW)
- 12:30 SYM-14-04**
THE LONG-TERM CLINICAL AND PATHOLOGICAL
CONSEQUENCES OF SPORTS-RELATED CONCUSSION
McCrory, Paul (Florey Institute of Neuroscience and Mental
Health, VIC)

FRIDAY 31 JANUARY 2014

11:00-13:00 SYMPOSIUM 15

IMPORTANT LESSONS FROM HUMAN BRAIN TISSUE RESEARCH

Chair: Prof. Jillian Kril, University of Sydney, NSW

Location: Hall D

11:00 SYM-15-01

THE AUSTRALIAN BRAIN BANK NETWORK AND THE ROLE OF
NEUROPATHOLOGIC DIAGNOSIS

McLean, Catriona (The Florey Institute of Neuroscience and
Mental Health, VIC)

11:30 SYM-15-02

COPPER PATHOLOGY IN THE VULNERABLE
SUBSTANTIA NIGRA IN PARKINSON'S DISEASE

Double, Kay*, Davies, K., Bohic, S., Ortega, R., Cottam, V.,
Hare, D., Finberg, J., Halliday, G., Mercer, J. (*Neuroscience
Research Australia, NSW)

12:00 SYM-15-03

FROM BRAINS TO BEDS: LESSONS FROM DONATED
PSYCHIATRIC BRAINS

Scarr, Elizabeth (University of Melbourne, VIC)

12:30 SYM-15-04

DEMENTIA AND THE AGEING BRAIN: LESSONS YOU CAN ONLY
LEARN FROM HUMAN BRAIN STUDIES

Vickers, James (University of Tasmania, TAS)

FRIDAY 31 JANUARY 2014

11:00-13:00 **SYMPOSIUM 16**

GLIA IN DEVELOPMENT & DISEASE

Chairs: Dr Kaylene Young, Menzies Research Institute, TAS

Dr Ilan Gobius, University of Queensland, QLD

Location: Meeting Room 1/2

11:00 **SYM-16-01**
PROTECTING GLIA FROM SECONDARY DEGENERATION
FOLLOWING NEUROTRAUMA
Fitzgerald, Melinda (University of Western Australia, WA)

11:30 **SYM-16-02**
NUCLEAR FACTOR I TRANSCRIPTION FACTORS IN GLIAL
DEVELOPMENT AND DISEASE
Bunt, Jens*, Lint, J., Gobius, I., Mason, S. and Richards, S.
(*University of Queensland)

12:00 **SYM-16-03**
GLIAL REMODELING: A NOVEL FORM OF PLASTICITY TO
ADAPT TO ENVIRONMENTAL CHALLENGES
Walker, Rohan (University of Newcastle, NSW)

12:30 **SYM-16-04**
TRANSCRIPTIONAL REGULATION OF TERMINAL
OLIGODENDROCYTE DIFFERENTIATION AND CNS
MYELINATION
Emery, Ben*, Bujalka, H., Koenning, M., Stacey, J., Perreau,
V. (*Florey Institute of Neuroscience and Mental Health, VIC)

FRIDAY 31 JANUARY 2014

11:00-13:00 SYMPOSIUM 17

HARNESSING BRAIN PLASTICITY FOR REHABILITATION

Chairs: Chair Dr. John Semmler, University of Adelaide, SA
Prof. Michael Ridding, University of Adelaide, SA
Location: Meeting Room 10

- 11:00** **SYM-17-01**
DEVELOPMENT AND APPLICATION OF A CLOSED-LOOP
NEURAL PROSTHESIS TO POTENTIATE FUNCTIONAL
CONNECTIVITY AND RESTORE FUNCTION AFTER CORTICAL
INJURY
Nudo, Randolph*, Guggenmos, D., Van Acker, G., Azin, M.,
Pack, A., Barbay, S., Mahnken, J., Dunham, C. and Mohseni, P.
(*University of Kansas Medical Center, USA)
- 11:30** **SYM-17-02**
NON-INVASIVE BRAIN STIMULATION TECHNIQUES FOR THE
EVALUATION AND MODULATION OF PLASTICITY IN STROKE
Di Lazzaro, Vincenzo (Università Cattolica, ITALY)
- 12:00** **SYM-17-03**
HARNESSING BRAIN PLASTICITY FOR REHABILITATION IN THE
INTACT NERVOUS SYSTEM - A CLINICAL PERSPECTIVE
Hodges, Paul (University of Queensland, QLD)
- 12:30** **SYM-17-04**
THE WAY AHEAD - DO NON-INVASIVE BRAIN STIMULATION
TECHNIQUES OFFER REAL THERAPEUTIC POTENTIAL?
Rothwell, John (University College London, UK)

FRIDAY 31 JANUARY 2014

11:00-13:00 **SYMPOSIUM 18**

TRP CHANNELS IN HEALTH & DISEASE

Chair: Dr Paul P. Bertrand, University of New South Wales, NSW

Location: Meeting Room 11

- 11:00** **SYM-18-01**
MOLECULAR MECHANISMS OF PAR SIGNALLING TO TRPV4
McIntyre, Peter*, Grace, M., Darby, W., Lieu, T., Veldhuis, N.,
Poole, D. and Bunnett, N. (*RMIT University, VIC)
- 11:30** **SYM-18-02**
SPECIFIC CONTRIBUTIONS OF SELECT TRP CHANNELS TO
ACUTE AND CHRONIC VISCERAL HYPERSENSITIVITY
Brierley, Stuart (University of Adelaide, SA)
- 12:00** **SYM-18-03**
THE BILE ACID RECEPTOR TGR5 SENSITIZES THE TRPA1
CHANNEL TO INDUCE ITCH
Bunnett, Nigel (Monash University, VIC)
- 12:30** **SYM-18-04**
QUANTIFICATION AND FUNCTIONS OF ENDOGENOUS
AGONISTS OF TRANSIENT RECEPTOR POTENTIAL CHANNELS
IN IRRITABLE BOWEL SYNDROME
Cenac, Nicolas*, Le Faouder, P., Bautzova, T., Barbara, G. and
Vergnolle, N. (*Inserm U1043, FRANCE)

FRIDAY 31 JANUARY 2014

11:00-13:00

SYMPOSIUM 19

RNA METABOLISM IN NEURODEGENERATION

Chair: A/Prof. Michael Buckland, University of Sydney, NSW

Location: Meeting Room 3

11:00

SYM-19-01

MECHANISM AND THERAPY FOR ERRORS IN RNA BINDING PROTEINS IN ALS AND FTD

Cleveland, Donald*, Baughn, M., Sun, S., Ling, S., Da Cruz, S., Jiang, J., Zhu, Q., Ditsworth, D., Rigo, F., Markmiller, S., Watt, A., Sun Arnold, E., Huelga, S., Sun Y., Qiu, J., Li, H., Xue, H., Polymenidou, M., Clutario, K., Q Vu, A., Liu, P., Fu, X., Yeo, G., Bennett, F., Ravits, J. and Lagier-Tourenne, C. (*Ludwig Institute for Cancer Research, USA)

11:30

SYM-19-02

RNA PATHOGENESIS VIA TOLL-LIKE RECEPTOR-ACTIVATED INFLAMMATION IN EXPANDED REPEAT NEURODEGENERATIVE DISEASES

Richards, Robert*, Samaraweera, S., van Eyk, C., O'Keefe, L. And Suter, C. (*University of Adelaide, SA)

12:00

SYM-19-03

GROWING EVIDENCE FOR DEFECTIVE RNA METABOLISM IN ALS

Blair, Ian*, Williams, K., Yang, S., Fifita, J., Warraich, S., Zhang, K. and Nicholson, G. (*Macquarie University, NSW)

12:30

SYM-19-04

IDENTIFICATION OF RNAs REGULATED BY TDP-43 SUGGEST A ROLE IN THE MAINTENANCE OF NEUROMUSCULAR JUNCTIONS

Wallace, Robyn*, Narayanan, R., Chaplin, J., Butler, T., Mangelsdorf, M. and Hilliard, M. (*University of Queensland, QLD)

FRIDAY 31 JANUARY 2014

14:00-16:00

ORAL 12

DEVELOPMENT & REGENERATION II

Chair: A/Prof. James Bourne, Monash University, VIC

Location: Hall E

14:00

ORAL-12-01

EPHRIN-A2 SELECTIVELY GUIDES THE MIGRATION OF INTERNEURONES INTO THE SUPRAGRANULAR LAYERS OF THE NEOCORTEX

Homman-Ludiye, Jihane*, Rodger, J. and Bourne, J.
(*Monash University, VIC)

14:15

ORAL-12-02

RHO KINASE INHIBITION PROMOTES FUNCTIONAL IMPROVEMENT AND ALTERED NEUROGENESIS FOLLOWING TRAUMATIC BRAIN INJURY

Turnley, Ann*, Christie, K and Turbic, A. (*University of Melbourne, VIC)

14:30

ORAL-12-03

EARLY FATE SPECIFICATION OF PLURIPOTENT STEM CELLS IMPROVES DOPAMINERGIC DIFFERENTIATION AND ISOLATION OF PROGENITORS FOR TRANSPLANTATION INTO A RODENT MODEL OF PARKINSONISM

†Alsanie, Walaa*, Niclis, J., Pouton, C., Thompson, L. and Parish, C. (*The Florey Institute of Neuroscience and Mental Health, VIC)

14:45

ORAL-12-04

DEVELOPMENT OF MATURE BDNF-SPECIFIC SANDWICH ELISA SYSTEM

†Lim, Yoon*, Sun, A. and Zhou, X. (*University of South Australia, SA)

FRIDAY 31 JANUARY 2014

15:00

ORAL-12-05

DYNAMIC IMAGING OF NEURAL REGENERATION IN VIVO

Kaslin, Jan*, Goldshmit, Y., Tang, J., Colquhoun, D. and Friedrich, T. (*Monash University, VIC)

15:15

ORAL-12-06

CHARACTERISATION OF DENTAL PULP STEM CELLS IN THE AGED HUMAN TOOTH

Chew, Rebekah*, Kaidonis, X., Rychkov, G., Cathro, P. and Koblar, S. (*University of Adelaide, SA)

15:30

ORAL-12-07

ADULT NEURAL PRECURSOR CELLS FROM THE SUBVENTRICULAR ZONE CONTRIBUTE SIGNIFICANTLY TO OLIGODENDROCYTE REGENERATION AND REMYELINATION

Tobias, Merson*, Xing, Y., Roth, P., Stratton, J., Chuang, B., Ng, S. and Kilpatrick, T. (Florey Institute of Neuroscience and Mental Health, VIC)

15:45

ORAL-12-08

IDENTIFICATION OF NOVEL NEUROTROPHIC-LIKE FACTORS: A CANDIDATE FOR PROMOTING NERVE REGENERATION IN NEUROPATHY

Landowski, Lila*, Taylor, B., West, A. and Foa, L. (*Menzies Research Institute Tasmania, TAS)

[†]Indicates that presenter is a student

FRIDAY 31 JANUARY 2014

14:00-16:00

ORAL 13

MOTOR SYSTEMS I

Chair: Prof. Simon Gandevia, Neuroscience Research Australia, NSW
Location: Hall D

14:00

ORAL-13-01

ILLCIT STIMULANT USE IS ASSOCIATED WITH ABNORMAL
SUBSTANTIA NIGRA MORPHOLOGY IN HUMANS

Todd, Gabrielle*, Noyes, C., Flavel, S., Della Vedova, C.,
Spyropoulos, P., Chatterton, B., Berg, D. and White, J.
(*University of South Australia)

14:15

ORAL-13-02

HUNTING FOR THE MYSTERIOUS TETANUS TOXIN RECEPTOR

[†]Bercsenyi, Kinga*, Schmieg, N., Golding, M. and Schiavo, G.
(*London Research Institute Cancer Research, UK)

14:30

ORAL-13-03

IN VIVO HIGH-RESOLUTION, FIBRE-OPTIC MANOMETRY
CHARACTERISES MYOGENIC MOTOR PATTERNS IN THE
HUMAN COLON

Dinning, Phil*, Wiklendt, L., Brookes, S., Bampton, P. and
Costa, M. (*Flinders University, SA)

14:45

ORAL-13-04

PLASTICITY OF THE SENSORIMOTOR SYSTEM FOR STANDING
BALANCE IN PERSONS AFTER SEVERE STROKE

Garland, Jane*, Peters, S., Teasell, R. and Ivanova, T.
(*University of British Columbia, CANADA)

FRIDAY 31 JANUARY 2014

15:00

ORAL-13-05

FUNCTIONAL LOSS OF THE PURKINJE NEURON ENRICHED EXCITATORY AMINO ACID TRANSPORTER, EAAT4, DURING THE EARLY STAGES OF A MOUSE MODEL OF SPINO-CEREBELLAR ATAXIA, SCA1.

[†]**Power, Emmet*** and Empson, R. (*University of Otago, NZ)

15:15

ORAL-13-06

EXPRESSION OF THE DEVELOPMENTAL TRANSCRIPTION FACTOR FEZF2 IDENTIFIES A DISTINCT SUBPOPULATION OF LAYER 5 CALLOSAL PROJECTION NEURONS IN MATURE MOUSE MOTOR CORTEX

[†]**Tantirigama, Malinda***, Oswald, M., Duynstee, C., Hughes, S. and Empson, R. (*University of Otago, NZ)

15:30

ORAL-13-07

3D REACHES ARE ENCODED IN BODY-CENTERED, MIXED, BUT NOT HAND-CENTERED REFERENCE FRAMES IN THE MEDIAL POSTERIOR PARIETAL CORTEX OF MACAQUES

Hadjidimitrakis, Kostas*, Bertozzi, F., Dal Bo', G., Breveglieri, R., Galletti, C., Fattori, P. and Rosa, M. (*Monash University, VIC)

15:45

ORAL-13-08

EXTRACELLULAR WILDTYPE AND MUTANT SOD1 INDUCES ER-GOLGI PATHOLOGY CHARACTERISTIC OF AMYOTROPHIC LATERAL SCLEROSIS IN NEURONAL CELLS

[†]**Sundaramoorthy, Vinod***, Walker, A., Yerbury, J., Soo, K., Farg, M., Hoang, V., Zeineddine, R., Spencer, D. and Atkin, J. (*La Trobe University, VIC)

[†]*Indicates that presenter is a student*

FRIDAY 31 JANUARY 2014

14:00-16:00

ORAL 14

SENSORY SYSTEMS II

Chair: Dr. Stuart Brierley, University of Adelaide, SA

Location: Meeting Room 1/2

14:00

ORAL-14-01

COLORECTAL SENSORY INPUT IS DIFFERENTIALLY PROCESSED WITHIN THE THORACOLUMBAR AND LUMBOSACRAL SPINAL CORD

Harrington, Andrea* and Brierley, S. (*University of Adelaide, SA)

14:15

ORAL-14-02

DEVELOPMENT OF A NOVEL TRANSGENIC CGRP ALPHA REPORTER MOUSE TO FACILITATE VISUALIZATION AND DIRECT RECORDING FROM NOCICEPTIVE NERVE ENDINGS IN VISCERAL ORGANS USING CALCIUM IMAGING

Spencer, Nick* and Travis, L. (*Flinders University, SA)

14:30

ORAL-14-03

VISCEROSENSORY NEUROIMMUNE INTERACTIONS DISPLAY PLASTICITY WITH DISTINCT FUNCTIONAL OUTCOMES DEPENDENT UPON DISEASE STATE

Hughes, Patrick*, Harrington, A., Moretta, M., Maldeniya, L., Martin, C., Blackshaw, A. and Brierley, S. (*University of Adelaide, SA)

14:45

ORAL-14-04

CONTRACTION-INDUCED FIRING OF LOW THRESHOLD STRETCH-SENSITIVE AFFERENTS IS INCREASED BY BLADDER OUTLET OBSTRUCTION

Zagorodnyuk, Vladimir*, Nicholas, S., Chen, B. and Brookes, S. (*Flinders University, SA)

FRIDAY 31 JANUARY 2014

- 15:00** **ORAL-14-05**
TARGETED ANESTHESIA OF RAT NOCICEPTORS IN NORMAL
AND INFLAMED BLADDER
Osborne, Peregrine*, Sadananda, P. and Keast, J. (*University
of Melbourne, VIC)
- 15:15** **ORAL-14-06**
DUAL AND CONDITIONAL HSV-1 TRANSYNAPTIC NEURONAL
TRACING OF HIGHER BRAIN SENSORY CIRCUITS ARISING
FROM THE UPPER AND LOWER AIRWAYS
[†]**McGovern, Alice***, Davis-Poynter, N., Simmons, D. and
Mazzone, S. (*University of Queensland, QLD)
- 15:30** **ORAL-14-07**
ENCODING OF FRICTION BY TACTILE MECHANORECEPTOR
AFFERENTS - EFFECTS AT INITIAL CONTACT
Birznieks, Ingvars*, Khamis, H., Accad, D., Collis, J., Kasi, P.,
Macfield, V. and Redmond, S. (*University of Western Sydney,
NSW)
- 15:45** **ORAL-14-08**
THE EFFECT OF THE THERMAL GRILL ILLUSION (TGI) ON THE
RESPONSE TO INTRADERMAL CAPSAICIN IN HEALTHY MALE
VOLUNTEERS
[†]**Sumracki, Nicole***, Buisman-Pijlman, F., Hutchinson, M.,
Gentgall, M., Johnson, J. and Rolan, P. (*University of
Adelaide, SA)

[†] *Indicates that presenter is a student*

FRIDAY 31 JANUARY 2014

14:00-16:00 ORAL 15

CLINICAL DISORDERS AND INJURY OF THE NERVOUS SYSTEM V

Chair: Dr Mary Louise Rogers, Flinders University, SA

Location: Meeting Room 10

- 14:00 ORAL-15-01**
ALTERED FAT METABOLISM: A PATHOLOGICAL FEATURE OF DISEASE PROGRESSION IN HSOD1G93A MICE
Steyn, Frederik*, Lee, K., Xie, T., Chen, C., Ngo, S. and McCombe, P. (*University of Queensland, QLD)
- 14:15 ORAL-15-02**
ALTERED NEURONAL FUNCTION IN NETWORKS DERIVED FROM INDUCED PLURIPOTENT STEM CELLS FROM ALZHEIMER'S DISEASE PATIENTS
Ooi, Lezanne*, Bax, M., Harley, S., Balez, R., Sidhu, K., Muench, G., Jenner, A. and Mitchell, T. (*University of Wollongong, NSW)
- 14:30 ORAL-15-03**
ERBB4 PROTEIN AND MRNA EXPRESSION IN NEUREGULIN 1 TRANSMEMBRANE DOMAIN HETEROZYGOUS MOUSE VARIES ACCORDING TO AGE AND SEX
[†]**Olaya, Juan***, Long, L., Newel, K., Karl, T. and Shannon Weickert, C. (*Neuroscience Research Australia, NSW)
- 14:45 ORAL-15-04**
CHARACTERISATION OF RETINAL GANGLION CELL SURVIVAL AND AXON REGENERATION FOLLOWING PULSED MAGNETIC FIELD STIMULATION IN A MOUSE OPTIC NERVE CRUSH MODEL
[†]**Tang, Alex***, Bartlett, C. and Rodger, J. (*University of Western Australia, WA)

FRIDAY 31 JANUARY 2014

- 15:00** **ORAL-15-05**
INHIBITORY LOSS OR DYSFUNCTION: A PRIMARY MECHANISM
IN AMYOTROPHIC LATERAL SCLEROSIS?
Dickson, Tracey*, Clark, R., Fiedler, T., Blizzard, C. and King, A.
(*University of Tasmania, TAS)
- 15:15** **ORAL-15-06**
NEDD4-FAMILY INTERACTING PROTEIN 1 (NDFIP1) IS
INVOLVED IN THE DNA DAMAGE RESPONSE VIA THE
ATAXIA TELANGIECTASIA MUTATED (ATM) MECHANISM
Low, Ley-Hian*, Goh, C., Putz, U., Howitt, J. and Tan, S.
(*Florey Institute of Neuroscience and Mental Health, VIC)
- 15:30** **ORAL-15-07**
EARLY LIFE EXPOSURE TO LEAD AND/OR MANGANESE AND
LATE LIFE NEUROBEHAVIOURAL ALTERATIONS IN RATS
[†]**Davuljigari, Chand Basha***, Vonteru, K. and Gottipolu, R.
(*Sri Venkateswara University, INDIA)
- 15:45** **ORAL-15-08**
MARKERS OF INFLAMMATION AND STRESS DISTINGUISH
SUBSETS OF INDIVIDUALS WITH SCHIZOPHRENIA AND
BIPOLAR DISORDER
Fillman, Stu*, Sinclair, D., Fung, S., Webster, M. and Shannon
Weickert, C. (*Schizophrenia Research Institute, NSW)

[†] Indicates that presenter is a student

FRIDAY 31 JANUARY 2014

14:00-16:00 ORAL 16

AUTONOMIC / NEUROENDOCRINE SYSTEMS II

Chair: Dr Elizabeth Beckett, University of Adelaide, SA

Location: Meeting Room 11

- 14:00 ORAL-16-01**
EARLY LIFE DIET PROGRAMS MICROGLIAL MATURATION:
IMPLICATIONS FOR CENTRAL RESPONSES TO AN IMMUNE
CHALLENGE
† **Cai, Guohui***, Kenny, R., Ziko, I. and Spencer, S. (*RMIT
University, VIC)
- 14:15 ORAL-16-02**
THE IMPACT OF TOLL-LIKE RECEPTOR 4 ON THE
HYPOTHALAMUS-PITUITARY-ADRENAL AXIS
† **Liu, JiaJun***, Hutchinson, M. and Buisman-Pijlman, F.
(*University of Adelaide, SA)
- 14:30 ORAL-16-03**
MICROGLIAL ACTIVATION IN THE HYPOTHALAMUS,
MIDBRAIN AND MEDULLA FOLLOWING MYOCARDIAL
INFARCTION
Badoer, Emilio*, Dworak, M., Stebbing, M., Kompa, A., Rana,
I. and Krum, H. (*RMIT University, VIC)
- 14:45 ORAL-16-04**
THE CARDIOVASCULAR ACTIONS OF FRACTALKINE/CX3CL1 IN
THE HYPOTHALAMIC PARAVENTRICULAR NUCLEUS ARE
ATTENUATED IN HEART FAILURE RATS
Yao, Song*, Ruchaya, Rp., Antunes, V., Paton, J. and Murphy,
D. (*University of Bristol, UK)

FRIDAY 31 JANUARY 2014

15:00

ORAL-16-05

THE INVOLVEMENT OF MIDBRAIN REGIONS IN COUGH
HYPERSENSITIVITE PATIENTS

[†]**Ando, Ayaka***, Mazzone, S., Smallwood, D., McMahon, M.
and Farrell, M. (*University of Queensland, QLD)

15:15

ORAL-16-06

PRESYNAPTIC AND POSTSYNAPTIC Y RECEPTORS ACT
DIFFERENTIALLY TO MODULATE PULSATILE GROWTH
HORMONE SECRETION IN THE MOUSE

[†]**Huang, Lili***, Steyn, F., Tan, H., Fogarty, M., Andrews, Z.,
Veldhuis, J., Herzog, H. and Chen, C. (*University of
Queensland, QLD)

15:30

ORAL-16-07

TRANSGENIC RATS WITH ATAXIN3-MEDIATED DESTRUCTION
OF OREXIN NEURONS SHOW A REDUCED BROWN ADIPOSE
TISSUE THERMOGENIC RESPONSE TO CONFRONTATION
WITH A CAGED INTRUDER RAT

Mohammed, Mazer*, Ootsuka, Y., Yanagisawa, M. and
Blessing, B. (*Flinders University, SA)

15:45

ORAL-16-08

DIFFERENT FOREBRAIN REPRESENTATION OF THERMAL AND
PSYCHOGENIC SWEATING IN HUMANS

Farrell, Michael*, Trevaks, D., Taylor, N. and McAllen, R.
(*Florey Institute of Neuroscience and Mental Health, VIC)

[†]*Indicates that presenter is a student*

FRIDAY 31 JANUARY 2014

14:00-16:00 ORAL 17

NEUROENGINEERING & COMPUTATIONAL NEUROSCIENCE I

Chair: Prof. David O'Carroll, University of Adelaide, SA

Location: Meeting Room 3

- 14:00 ORAL-17-01**
CHARACTERISATION OF THE STABILITY AND
BIO-FUNCTIONALITY OF TETHERED PROTEINS ON
BIOENGINEERED SCAFFOLDS: IMPLICATIONS FOR NEURAL
REPAIR
†**Wang, Ting Yi***, Bruggeman, K., Sheehan, R., Turner, B.,
Nisbet, D. and Parish, C. (*Florey Institute of Neuroscience
and Mental Health, VIC)
- 14:15 ORAL-17-02**
SELF-ASSEMBLING PEPTIDE HYDROGELS FOR REPAIR OF
NEURAL CIRCUITRY
†**Rodriguez, Alexandra***, Williams, R., Parish, C. and Nisbet, D.
(*Australian National University, ACT)
- 14:30 ORAL-17-03**
CLOSE-FIELD ELECTROPORATION VIA THE COCHLEAR
IMPLANT ENHANCES THE BIONIC INTERFACE
†**Pinyon, Jeremy***, Tadros, S., Froud, K., Wong, A., Tompson,
I., Crawford, E., Ko, M., Morris, R., Klugmann, M. and Housley,
G. (*University of New South Wales, NSW)
- 14:45 ORAL-17-04**
CORTICAL NEUROPATHOLOGY FOLLOWING IMPLANTATION
OF WIRELESS MULTIPLE ELECTRODE ARRAY FOR BIONIC EYE
PROSTHESIS
Yan, Edwin*, Clarke, I., Cassells, K., Haghgoosie, S., Payne, B.
and Rosenfeld, J. (*Monash University, VIC)

FRIDAY 31 JANUARY 2014

15:00

ORAL-17-05

TESTING DIFFERENT MODELS OF THE ORGANISATION OF THE DORSAL EXTRASTRIATE CORTEX USING MULTIELECTRODE ARRAYS

Hsin-Hao, Yu*, Rosa, M., Haghgooye, S., Davies, A., Zavitz, E. and Price, N. (*Monash University, VIC)

15:15

ORAL-17-06

A PREDICTIVE MODEL OF SURFACE LIGHTNESS PERCEPTION THROUGH TRANSPARENT LAYERS

Vladusich, Tony* and McDonnell, M. (*University of South Australia, SA)

15:30

ORAL-17-07

RELATION OF KONIOCELLULAR PATHWAY ACTIVITY TO LOW FREQUENCY (DELTA) ELECTROENCEPHALOGRAPH POWER IN ANAESTHETISED MARMOSETS

Pietersen, Alexander*, Munn, B., Cheong, S., Townsend, R., Gong, P., Solomon, S. and Martin, P. (*University of Sydney, NSW)

15:45

ORAL-17-08

DISTRIBUTED CODING OF VISUAL SPACE IN MARMOSET AREA MT

Chen, Spencer*, Morley, J. and Solomon, S. (*University of Sydney, NSW)

[†]Indicates that presenter is a student

POSTERS - WEDNESDAY 29 JANUARY 2014

13:00-15:00

POSTER SESSION A

Location:

Halls J&K, Adelaide Convention Centre

Presenters of odd numbered posters in attendance 13:00 - 14:00

Presenters of even numbered posters in attendance 14:00 - 15:00

Posters 001 - 028	Autonomic Autonomic/Neuroendocrine Systems
Posters 029 - 079	Clinical Disorders & Injury of the Nervous System
Posters 080 - 110	Cognition, Learning & Behaviour
Posters 111 - 129	Development & Regeneration
Posters 130 - 143	Excitability & Synaptic Transmission
Posters 144 - 152	Glia
Posters 153 - 155	Limbic & Other Systems
Posters 156 - 162	Motor Systems
Posters 163 - 164	Neuroengineering
Posters 165 - 174	New Techniques in Neuroscience
Posters 175 - 195	Sensory Systems

Autonomic Autonomic/Neuroendocrine Systems

Posters 001 - 028

POS-WED-001 13:00-14:00

EFFECT OF CHOLERA TOXIN ON COLONIC MIGRATING MOTOR COMPLEXES IN FEMALE MICE DEPENDS ON MUCOSAL 5-HT AND SEX STEROID HORMONES

[†]**Balasuriya, Gayathri K***, Li, S., Gershon, M. and Bornstein, J. (*University of Melbourne, VIC)

POS-WED-002 14:00-15:00

MECHANISMS UNDERLYING THE GENERATION OF COLONIC MIGRATING MOTOR COMPLEXES: DO THEY OCCUR IN AN EMPTY INTESTINE?

[†]**Barnes, Kyra***, Brookes, S., Beckett, E. and Spencer, N. (*Flinders University, SA)

POS-WED-003 13:00-14:00

BRAINSTEM LOCI INVOLVED IN LARYNGEAL ADDUCTION AND COORDINATION OF FICTIVE SWALLOWING IN SITU

Bautista, Tara* and Dutschmann, M. (*Florey Institute of Neuroscience and Mental Health

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-004 14:00-15:00

VAGALLY-MEDIATED GASTRIC RELAXATIONS ARE REDUCED IN W/WV MICE LACKING INTRAMUSCULAR INTERSTITIAL CELLS OF CAJAL

Beckett, Elizabeth* and Staikopoulos, V. (*University of Adelaide, SA)

POS-WED-005 13:00-14:00

CHARACTERISATION OF PELVIC AUTONOMIC NEURONS FOLLOWING AXOTOMY REVEALS NEURONAL POPULATIONS WITH DISTINCT GROWTH PROFILES

†Belleville, Philip* and Keast, J. (*University of Melbourne, VIC)

POS-WED-006 14:00-15:00

MODULATION OF MUSCLE SYMPATHETIC NERVE ACTIVITY BY LOW-FREQUENCY PHYSIOLOGICAL ACTIVATION OF THE VESTIBULAR SACCULE IN HUMANS

Bolton, Philip*, Hamman, E., Kwok, K. and Macefield, V. (*University of Newcastle, NSW)

POS-WED-007 13:00-14:00

ESTROGENIC MODULATION OF TRKA SIGNALLING IN PC12 CELLS

Bunn, Stephen*, Pyun, W., Williams, E., Matsas, M., Potapov, D. and Abraham, I. (*University of Otago, NZ)

POS-WED-008 14:00-15:00

NITRERGIC NEUROTRANSMISSION IN THE PARAVENTRICULAR NUCLEUS OF HYPOTHALAMUS MODULATES AUTONOMIC RESPONSES EVOKED BY ACUTE RESTRAINT IN RATS

†Busnardo, Cristiane*, Crestani, C., Scopinho, A., Resstel, L., Herman, J. and Correa, F. (*University of São Paulo, BRAZIL)

POS-WED-009 13:00-14:00

TREATMENT WITH ANTI-CANCER DRUG OXALIPLATIN AFFECTS NEUROMUSCULAR TRANSMISSION IN THE MURINE DISTAL COLON

Carbone, Simona*, McQuade, R., Stojanovska, V. and Nurgali, K. (*Victoria University, VIC)

POS-WED-010 14:00-15:00

SPONTANEOUSLY HYPERTENSIVE RATS HAVE MORE OREXIN NEURONS IN THE MEDIAL HYPOTHALAMUS THAN NORMOTENSIVE RATS

Carrive, Pascal* and Clifford, L. (*University of New South Wales, NSW)

†Indicates that presenter is a student

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-011 13:00-14:00

CENTRAL ADMINISTRATION OF PALMITIC ACID AND ARACHIDONIC ACID
REGULATE PERIPHERAL ENERGY HOMEOSTASIS BY DECREASING CENTRAL
LEPTIN SENSITIVITY IN MICE

[†]**Cheng, Licai***, Szabo, A., Wu, Y., Huang, X. and Yu, Y. (*University of
Wollongong, NSW)

POS-WED-012 14:00-15:00

THE OPIOID AGONIST BETA-CASOMORPHIN PRODUCES DYSMOTILITY IN THE
RAT LARGE INTESTINE

Dalziel, Julie*, Spencer, N., Haggarty, N., Gopal, P. and Roy, N. (*AgResearch,
NZ)

POS-WED-013 13:00-14:00

DISTRIBUTION OF OREXIN RECEPTORS IN CENTRAL AUTONOMIC CENTRES
REVEALED BY TRIPLE IMMUNOFLOUORESCENCE

[†]**Dampney, Bruno*** and Carrive, P. (*University of New South Wales, NSW)

POS-WED-014 14:00-15:00

THE EFFECT OF GESTATIONAL HIGH FAT DIET ON CARDIOVASCULAR
AUTONOMIC RESPONSES TO DEHYDRATION

[†]**Dissanayake, Hasthi*** and Polson, J. (*University of Sydney, NSW)

POS-WED-015 13:00-14:00

GLYCEROL STIMULATES MUCOSAL AFFERENTS AFFECTING
DISTENSION-INDUCED PERISTALSIS IN THE RAT COLON

Dodds, Kelsi*, Dinning, P., Wiklendt, L., Abalo, R., Spencer, N., Brookes, S.
and Costa, M. (*Flinders University, SA)

POS-WED-016 14:00-15:00

OREXIN/HYPOCRETIN NEUROPEPTIDES IN THE DEVELOPING PIGLET
HYPOTHALAMUS AFTER INCREASING DURATION OF INTERMITTENT
HYPERCAPNIC HYPOXIA

[†]**Du, Man***, Hunt, N., Waters, K. and Machaalani, R. (*University of Sydney,
NSW)

POS-WED-017 13:00-14:00

INTER-INDIVIDUAL DIFFERENCES IN BLOOD PRESSURE RESPONSES TO
STRESSORS: MENTAL VERSUS PHYSICAL TASKS

[†]**El Sayed, Khadigeh***, Taylor, C., Joyner, M. and Macefield, V. (*University of
Western Sydney, NSW)

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-018 14:00-15:00

AN ACTIVE GRE SITE IN CRH PROMOTER CONTRIBUTES TO THE SUSCEPTIBILITY TO STRESS IN CHINESE TREE SHREW

[†]**Fang, Hui***, Lv, Y., Syn, Y., Ni, R., Feng, X. and Zhou, J. (*University of Science and Technology of China, CHINA)

POS-WED-019 13:00-14:00

MONOAMINE AXONS PREFERENTIALLY INNERVATE OESOPHAGEAL MOTOR NEURONS IN THE DORSAL MOTOR NUCLEUS OF THE VAGUS

Fong, Angelina*, Travis, L., Menuet, C., Watson D., Dinning, P., Spencer, N., Allen, A. and Llewellyn-Smith, I. (*University of Melbourne, VIC)

POS-WED-020 14:00-15:00

SENSORY RE-INNervation OF THE POST-PARTUM RAT UTERUS

[†]**Gnanamanickam, Greta*** and Llewellyn-Smith, I. (*Flinders University, SA)

POS-WED-021 13:00-14:00

BEHAVIOURAL PROFILE OF RELAXIN-3/RXFP3 DEFICIENT MICE IN THE METHAMPHETAMINE WITHDRAWAL MODEL OF MONOAMINE DEPLETION AND DEPRESSION

[†]**Haidar, Mouna***, Lam, M., Chua, B., Smith, C. and Gundlach, A. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-WED-022 14:00-15:00

THE EFFECT OF ORTHOGNAL SHEARING OF THE VESTIBULAR UTRICLE IN HUMANS ON MUSCLE SYMPATHETIC NERVE ACTIVITY

[†]**Hammam, Elie***, Kwok, K. and Macefield, V. (*University of Western Sydney, NSW)

POS-WED-023 13:00-14:00

ACUTE OLANZAPINE TREATMENT BLOCKS THE HISTAMINE H1 RECEPTORS LEADING TO ACTIVATED AMPK SIGNALLING IN THE HYPOTHALAMIC ARCUATE NUCLEUS AND BRAINSTEM DORSAL VAGAL COMPLEX

[†]**He, Meng***, Wang, H., Han, M., Deng, C., Huang, X. (*University of Wollongong, NSW)

POS-WED-024 14:00-15:00

CHARACTERIZATION OF THE PRIMARY SPINAL AFFERENT INNERVATION OF THE MOUSE UTERUS: A COMBINED RETROGRADE AND IMMUNOHISTOCHEMICAL STUDY

[†]**Herweijer, Geraldine***, Kyloh, M. and Spencer, N. (*Flinders University, SA)

[†]Indicates that presenter is a student

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-025 13:00-14:00

TRACING SYNAPTIC INPUTS TO ENTERIC VISCEROFUGAL NEURONS

[†]**Hibberd, Timothy***, Zagorodnyuk, V., Spencer, N. and Brookes, S. (*Flinders University, SA)

POS-WED-026 14:00-15:00

ENHANCED GLUTAMATERGIC INPUTS TO PARAVENTRICULAR NUCLEUS OF THE HYPOTHALAMUS CONTRIBUTE TO INCREASED BLOOD PRESSURE AND SYMPATHETIC NERVE ACTIVITY IN CHRONIC KIDNEY DISEASE

Hildreth, Cara* and Phillips, J. (*Macquarie University, NSW)

POS-WED-027 13:00-14:00

THE INTERACTION BETWEEN ALCOHOL INDUCED NEUROINFLAMMATION AND DEPRESSIVE-LIKE BEHAVIOUR

[†]**Holmes, Joshua***, Hutchinson, M. and Corrigan, F. (*University of Adelaide, SA)

POS-WED-028 14:00-15:00

INVOLVEMENT OF OREXIN IN METHAMPHETAMINE-INDUCED HYPOPHAGIA AND HYPERACTIVITY

[†]**Ikoma Yoko***, Kuwaki, T. and Ootsuka, Y. (*Kagoshima University, JAPAN)

Clinical Disorders & Injury of the Nervous System

Posters 029 - 079

POS-WED-029 13:00-14:00

DISRUPTION OF RETINAL AMYLOID BETA HOMEOSTASIS IN GLAUCOMA AND THE EVIDENCE OF TRKB RECEPTOR MEDIATED PROTECTION

[†]**Al Adawy, Nadia***, Gupta, V., You, Y., Li, J., Gozlan, M., Graham S. and Gupta, V. (*Macquarie University, NSW)

POS-WED-030 14:00-15:00

NEUROPROTECTIVE EFFECT OF POSTCONDITIONING ON EMBOLIC MODEL OF CEREBRAL ISCHEMIA IN RAT

[†]**Allahtavakoli, Mohammad*** and Shamsizadeh, A. (*Rafsanjan University of medical Sciences, IRAN)

POS-WED-031 13:00-14:00

EVALUATION OF CIRCULATING ENDOTHELIAL MICROPARTICLES IN PATIENTS WITH ARTERIOVENOUS MALFORMATION (AVM)

[†]**Amal Raj, Jude***, Nair, S., Combes, V., Stoodley, M. and Davidson, A. (*Macquarie University, NSW)

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POS-WED-032 14:00-15:00

DIFFERENTIAL PATTERNS OF CYTOKINE EXPRESSION IN THE NEURAXIS OF RATS WITH 'PAIN AND DISABILITY' FOLLOWING NERVE INJURY

Austin, Paul*, Berglund, A. and Keay, K. (*University of Sydney, NSW)

POS-WED-033 13:00-14:00

BEHAVIOURAL DISABILITY CORRELATES WITH IMMUNE CELL EXPRESSION BUT NOT MYELIN DISRUPTION FOLLOWING SCIATIC NERVE INJURY IN RATS

Austin, Paul*, Kunyan, P., Billyard, S. and Keay, K. (*University of Sydney, NSW)

POS-WED-034 14:00-15:00

A POSSIBLE NOVEL IMMUNE ROLE FOR NOGO-RECEPTOR 1 IN A B-CELL POPULATION LOCALISED IN THE CNS DURING EXPERIMENTAL UTOIMMUNE ENCEPHALOMYELITIS

Bakhraysah, Maha*, Aui, P., Magee, K. and Petratos, S. (*Monash University, VIC)

POS-WED-035 13:00-14:00

SUPPRESSOR OF CYTOKINE SIGNALLING 2 (SOCS2) OVEREXPRESSING MICE HAVE AN INCREASED INFLAMMATORY CELL RESPONSE AFTER TRAUMATIC BRAIN INJURY

[†]**Basrai, Harleen***, Christie, K. and Turnley, A. (*University of Melbourne, VIC)

POS-WED-037 13:00-14:00

FORMATION OF A TRUNCATED FRAGMENT OF SRC (SRCΔN) FOLLOWING ISCHEMIC STROKE IN RATS

Bokhari, Laita*, Cheng, H. and Roulston, C. (*University of Melbourne, VIC)

POS-WED-038 14:00-15:00

THE ROLE OF NEUROGENIN 2 IN APP-STIMULATED NEURAL STEM OR PROGENITOR CELLS DIFFERENTIATION

Bolos, Marta*, Hu, Y., Foa, L., Young, K. and Small, S. (*Menzies Research Institute Tasmania, TAS)

[†]Indicates that presenter is a student

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-039 13:00-14:00

EXPRESSION OF THE NEURITE OUTGROWTH INHIBITOR NOGOA FOLLOWING FOCAL ISCHEMIA OF PRIMATE NEOCORTEX SWITCHES FROM ASTROCYTES IN THE NEONATE TO NEURONES IN THE ADULT

Bourne, James* and Boghdadi, A. (*Monash University, VIC)

POS-WED-040 14:00-15:00

NEUROTRANSMITTER DYSFUNCTION IN SUDDEN INFANT DEATH SYNDROME (SIDS)

Bright, Fiona*, Byard, R., Vink, R., Elliot, J. and Leonard, A. (*University of Adelaide, SA)

POS-WED-041 13:00-14:00

THE NEURONAL RESPONSE TO INJURY. IS IT SUBTYPE SPECIFIC?

Brizuela, Mariana*, Blizzard, C., Chuckowree, J., Young, K. and Dickson, T. (*Menzies Research Institute Tasmania, TAS)

POS-WED-042 14:00-15:00

IFNAR-1 SIGNALLING REGULATES THE MICROGLIAL PHENOTYPE IN RESPONSE TO PERIPHERAL LPS CHALLENGE

Brody, Kate*, Crack, P. and Taylor, J. (*University of Melbourne, VIC)

POS-WED-043 13:00-14:00

PLASMA BIOMARKERS IN PRESENILIN1 MUTATION CARRIERS USING ISOBARIC TAG FOR RELATIVE AND ABSOLUTE QUANTITATION (iTRAQ)

Chatterjee, Pratishtha*, Gupta, V., Taddei, K., Brown, B., Masters, C. and Martins, R. (*University of Western Australia, WA)

POS-WED-044 14:00-15:00

EFFECTS OF DIAZEPAM ON THE HIPPOCAMPAL EEG AND HISTOLOGY IN THE KAINIC ACID MOUSE MODEL OF TEMPORAL LOBE EPILEPSY

Cheung, Dennis (University of New South Wales, NSW)

POS-WED-045 13:00-14:00

EXCITATORY NEURONS IN THE ADULT MOUSE NEOCORTEX DEMONSTRATE RESILIENCE TO MILD STRUCTURAL INJURY AND CAPACITY FOR ADAPTIVE REMODELLING

Chuckowree, Jyoti* and Dickson, T. (*Menzies Research Institute, TAS)

POS-WED-046 14:00-15:00

PLAQUE DYNAMICS FOLLOWING FOCAL BRAIN INJURY IN APP/PS1 MICE

Collins, Jessica*, King, A., Woodhouse, A., Kirkcaldie, M and Vickers, J. (*University of Tasmania, TAS)

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POS-WED-047 13:00-14:00

SUBSTANCE P AND TAU PHOSPHORYLATION FOLLOWING REPETITIVE MILD TRAUMATIC BRAIN INJURY

Corrigan, Frances*, McAteer, K., Thornton, E. and Vink, R. (*University of Adelaide, SA)

POS-WED-048 14:00-15:00

BLOOD-BRAIN BARRIER BREAKDOWN IN TRAUMA: SUBSTANCE P AND THE TRANSCELLULAR VERSUS PARACELLULAR PATHWAYS

†Court-Kowalski, Stefan*, Harford-Wright, E., Finnie, J. and Vink, R. (*University of Adelaide, SA)

POS-WED-049 13:00-14:00

ACUTE OLANZAPINE AND HALOPERIDOL TREATMENT PROMOTE BDNF SIGNALLING: POTENTIAL MECHANISMS FOR IMPROVING COGNITIVE FUNCTION IN SCHIZOPHRENIA

Deng, Chao*, Han, M., Song, S., Wang, H., Zhang, X. and Huang, X. (*University of Wollongong, NSW)

POS-WED-050 14:00-15:00

GLIAL CELL ACTIVATION IN PERI-INFARCT TISSUE IN A PHOTOTHROMBOTIC MODEL OF STROKE IN RATS

Djukic, Natalia*, Yew, W., Jayaseelan, J., Muyderman, H. and Sims, N. (*Flinders University, SA)

POS-WED-051 13:00-14:00

SPHINGOSINE 1-PHOSPHATE LINKS APOE GENOTYPE AND ALZHEIMER'S DISEASE PATHOGENESIS

Don, Anthony*, Couttas, T., Kain, K., Daniels, B., Shepherd, C., Kril, J., Li, H. and Garner, B. (*University of New South Wales, NSW)

POS-WED-052 14:00-15:00

LRRK2, A GENETIC LINK BETWEEN INFLAMMATION AND PARKINSON'S DISEASE

Dzamko, Nicolas* and Halliday, G. (*University of New South Wales, NSW)

POS-WED-053 13:00-14:00

CNS PLASTICITY IN PRECLINICAL MODELS OF INFLAMMATORY MEDIATED GASTROINTESTINAL PAIN: A SYSTEMATIC REVIEW

†Farrell, Kristin*, Keely, S., Graham, B., Callister, R. and Callister, R. (*University of Newcastle, NSW)

†Indicates that presenter is a student

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POS-WED-054 14:00-15:00

THE N170 AND FACE PERCEPTION IN PSYCHIATRIC AND NEUROLOGICAL DISORDERS: A SYSTEMATIC REVIEW

[†]**Feuerriegel, Daniel***, Churches, O., Kohler, M., Hofmann, J. and Keage, H.
(*University of South Australia, SA)

POS-WED-055 13:00-14:00

THE INCIDENCE OF UNEXPECTED PATHOLOGY IN SA BRAIN BANK CASES: 10 YEAR CASE REVIEW

Flook, Robyn*, Koszyca, B., Manavis, J., Slee, M. and Blumbergs, P. (*Flinders University, SA)

POS-WED-056 14:00-15:00

ANALYSING THE ROLE OF HYPOXIA IN AUTOPHAGY USING ZEBRAFISH EMBRYOS

[†]**Ganesan, Swamynathan***, Moussavi Nik, S., Newman, M. and Lardelli, M.
(*University of Adelaide, SA)

POS-WED-057 13:00-14:00

LAMP2 PROTEIN ISOFORMS ARE DIFFERENTIALLY AFFECTED IN EARLY PARKINSON'S DISEASE

Gysbers, Amanda*, Murphy, K., Abbott, S., Spiro, A., Furuta, A., Cooper, A., Garner, B., Kabuta, T. and Halliday, G. (*Neuroscience Research Australia, NSW)

POS-WED-058 14:00-15:00

SIMILAR DECREASES IN GLUCOCEREBROSIDASE LEVELS AND ACTIVITY ARE SEEN IN SPECIFIC BRAIN REGIONS IN PARKINSON'S DISEASE PATIENTS WITH AND WITHOUT GBA1 MUTATIONS

Halliday, Glenda*, Murphy, K., Gysbers, A., Parkkinen, L., Ling, H., Holton, J., Revesz, T., Duran, R., Sidransky, E. and Cooper, A. (*Neuroscience Research Australia, NSW)

POS-WED-059 13:00-14:00

THE EFFECTS OF MATERNAL IMMUNE ACTIVATION AND MK-801 ON MISMATCH RESPONSES IN AWAKE, FREELY-MOVING RATS

Harms, Lauren*, Hodgson, D., Fulham, W., Hunter, M., Penttonen, M., Schall, U., Todd, J., Shannon-Weickert, C., Zavitsanou, K. and Michie, P. (*University of Newcastle, NSW)

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POS-WED-060 14:00-15:00

COGNITIVE ABILITY IN THE ELDERLY IS RELATED TO THE TIMING NOT DEGREE OF LATERALISATION OF THE FUNCTIONAL CEREBROVASCULAR RESPONSE

[†]**Hofmann, Jessica***, Flitton, A., Kurylowicz, L., Lavrencic, L., Badcock, N., Churches, O., Kohler, M. and Keage, H. (*University of South Australia, SA)

POS-WED-061 13:00-14:00

SRC PROTEIN TYROSINE KINASE IS IMPORTANT FOR SURVIVAL OF CULTURED PRIMARY CORTICAL NEURONS

[†]**Hoque, Ashfaqul***, Hossain, M., Ng, D. and Cheng, H. (*University of Melbourne, VIC)

POS-WED-062 14:00-15:00

DETERMINING THE SUB-CELLULAR LOCALISATION OF CUII(ATSM), A NEUROPROTECTIVE THERAPEUTIC IN MODELS OF AMYOTROPHIC LATERAL SCLEROSIS

[†]**James, Janine***, Hickey, J., Henderson, C., Smith, T., Liddell, J., White, ,A. and Donnelly, P. (*University of Melbourne, VIC)

POS-WED-063 13:00-14:00

CHOLESTEROL METABOLISM IS DISTURBED EARLY IN HUMAN ALZHEIMER'S DISEASE BRAIN

Jenner, Andrew*, Spiro, A., Bhatia, S., Krill, J. and Garner, B. (*University of Wollongong, NSW)

POS-WED-064 14:00-15:00

REGULATION OF CATECHOLAMINE SYNTHETIC ENZYMES IN PARKINSON'S DISEASE: OBSERVATIONS FROM RODENT MODELS

[†]**Johnson, Michaela***, Senthikumaran, M. and Bobrovskaya, L. (*University of South Australia, SA)

POS-WED-065 13:00-14:00

OPTIMISATION OF PHOTOTHROMBOTIC STROKE FOR PRODUCING LONG-TERM FUNCTIONAL DEFICITS

[†]**Jones, Kimberley***, Patience, M., Nilsson, M. and Walker, R. (*University of Newcastle, NSW)

[†]Indicates that presenter is a student

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-066 14:00-15:00

ORBITAL FRONTAL CORTEX LAMINAR DEFICITS IN SOMATOSTATIN AND PARVALBUMIN EXPRESSION ARE RELATED TO INCREASED WHITE MATTER NEURON DENSITY AND DEATH RECEPTORS IN SCHIZOPHRENIA

Joshi, Dipesh*, Catts, V. and Shannon Weickert, C. (*Neuroscience Research Australia, NSW)

POS-WED-067 13:00-14:00

NERVE INJURY INCREASES SEROTONIN AND ITS METABOLITES IN THE MEDIAL PREFRONTAL CORTEX IN RATS WITH COMORBID SOCIAL BEHAVIOURAL DISTURBANCES

Kang, James*, Keay, K., Double, K., Berglund, A., Cottam, V. and Mor, D. (*University of Sydney, NSW)

POS-WED-068 14:00-15:00

POTENCY OF A MUSCLE-DERIVED ISOFORM OF IGF-1 FOR THE RESCUE FACIAL MOTONEURONES AND INSIGHT INTO ITS MECHANISM OF ACTION

Katharesan, Viythia* and Johnson, I. (*University of Adelaide, SA)

POS-WED-069 13:00-14:00

TDP-43 PATHOLOGY IN A UK POPULATION-BASED COHORT: PREVALENCE AND ASSOCIATIONS WITH DEMENTIA AND AGE

Keage, Hannah*, Hunter, S., Matthews, F., Ince, P., Hodges, J., Hokkanen, S., Highley, R., Denning, T. and Brayne, C. (*University of South Australia, SA)

POS-WED-070 14:00-15:00

MEASUREMENT OF LRRK2 IN PERIPHERAL IMMUNE CELLS

Kilpatrick, Ross*, Kim, B., Halliday, G. and Dzamko, N. (*University of New South Wales, NSW)

POS-WED-071 13:00-14:00

TOOTH STROKE STUDY - THE OPEN STUDY OF DENTAL PULP STEM CELL THERAPY IN HUMANS

Koblar, Simon*, Kaidonis, X., Hamilton-Bruce A., Milton, A. and Kremer, K. (*University of Adelaide, SA)

POS-WED-072 14:00-15:00

ALTERED CHOLESTEROL METABOLISM AND INCREASED CHOLESTEROL PEROXIDATION IN HUMAN POST MORTEM HUNTINGTON'S DISEASE BRAIN

Kreilaus, Fabian*, McLean, C. and Jenner, A. (*University of Wollongong, NSW)

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POS-WED-073 13:00-14:00

SLEEP ELECTROENCEPHALOGRAPHIC SPECTRAL POWER IN
ALCOHOL-DEPENDENT PATIENTS

[†]**Lavania, Sagar***, Singh, L. and Nizamie, S. (*S N Medical College, INDIA)

POS-WED-074 14:00-15:00

MODULATION OF MIDBRAIN DOPAMINERGIC AND NEUROTROPHIC
PATHWAYS BY TESTOSTERONE

[†]**Lee, William***, Purves-Tyson, T., Shannon Weickert, C. and Double, K.
(*University of New South Wales, NSW)

POS-WED-075 13:00-14:00

UNDERSTANDING THE ROLE OF REGULATORY T CELLS IN CHRONIC PAIN
FOLLOWING NERVE INJURY

Lees, Justin*, Duffy, S. and Moalem-Taylor, G. (*University of New South
Wales, NSW)

POS-WED-076 14:00-15:00

DIFFERENCES IN OREXIN GENE REGULATION AND PEPTIDE EXPRESSION IN
THE HYPOTHALAMUS OF NERVE-INJURED RATS WITH AND WITHOUT
CO-MORBID DISRUPTIONS IN SOCIAL BEHAVIOUR

Leigh, Sarah-Jane*, Austin, P. and Keay, K. (*University of Sydney, NSW)

POS-WED-077 13:00-14:00

NEURON-SPECIFIC EXPRESSION OF HUMAN APOLIPOPROTEIN D
ALLEVIATES COGNITIVE IMPAIRMENTS AND REDUCES AMYLOID
DEPOSITION IN APP/PS1 ALZHEIMER'S DISEASE MICE

Li Henry*, Cheng, D., Low, J., Ruberu, K., Zhao, H., Carl, T. and Barner, B.
(*University of Wollongong, NSW)

POS-WED-078 14:00-15:00

MITOCHONDRIA-ER CONTACT LENGTHS IN ZEBRAFISH EMBRYOS WITH
INHIBITION OF PRESENILIN1 AND PRESENILIN2 GENE EXPRESSION.

[†]**Lim, Anne Hwee Ling***, Newman, M. and Lardelli, M. (*University of
Adelaide, SA)

POS-WED-079 13:00-14:00

CO-TRANSPLANTATION OF NEURAL STEM CELLS AND OLFACTORY
ENSHEATHING CELLS PROMOTES NEUROLOGICAL RECOVERY ASSOCIATED
WITH IGF1 UP-REGULATION AFTER COMPLETE SPINAL CORD TRANSECTION

[†]**Liu, Su-Juan***, Chen, J., Zhou, X. and Wang, T. (*West China School of
Preclinical and F, CHINA)

[†]Indicates that presenter is a student

POSTERS - WEDNESDAY 29 JANUARY 2014

Cognition, Learning & Behaviour

Posters 080 - 110

POS-WED-080 14:00-15:00

BEHAVIOURAL RESPONSES TO A 5-HT_{1B} AGONIST FOLLOWING MDMA SELF-ADMINISTRATION

[†]**Aronsen, Dane***, Webster, J. and Schenk, S. (*Victoria University of Wellington, NZ)

POS-WED-081 13:00-14:00

PERCEPTUAL LEARNING OF TACTILE LETTERS TRANSFERS ACROSS BODY SURFACES

Auvray, Malika* and Arnold, G. (*CNRS - IJN, FRANCE)

POS-WED-082 14:00-15:00

IDENTIFICATION OF TYPE I POSITIVE ALLOSTERIC MODULATORS OF $\alpha 7$ NICOTINIC ACETYL CHOLINE RECEPTOR FOR THE TREATMENT OF COGNITIVE IMPAIRMENT IN NEURODEGENERATIVE AND PSYCHIATRIC DISEASE

Avery, Tom*, O'Connor, S., Kolesik, P., Grishin, A., Coles, C., Paul, D., Huff, B., Singh, R., Andriambeloson, E. and Giethlen, B. (*Bionomics Ltd, SA)

POS-WED-083 13:00-14:00

PHYSICAL EXERCISE IMPACTS ON COGNITIVE, AND DEPRESSIVE-LIKE BEHAVIOURS IN C57BL/6 MICE

Ayliffe, Julie*, Jaehne, E., Corrigan, F. and Baune, B. (*University of Adelaide, SA)

POS-WED-084 14:00-15:00

DYSEXECUTIVE SYNDROME: FRONTO-STRIATAL DISCONNECTION AND DISORDERS OF DECISION-MAKING

Balleine, Bernard*, and Hart, G. (*University of Sydney, NSW)

POS-WED-085 13:00-14:00

OXYTOCIN ADMINISTRATION IN THE NUCLEUS ACCUMBENS CORE OF THE RAT REDUCES REINSTATEMENT OF METHAMPHETAMINE-SEEKING

[†]**Baracz, Sarah***, Everett, N., McGregor, I. and Cornish, J. (*Macquarie University, NSW)

POS-WED-086 14:00-15:00

PHYSICAL EXERCISE IMPROVES AGE-ASSOCIATED COGNITIVE DEFICITS

Blackmore, Daniel*, Steyn, F. and Bartlett, P. (*University of Queensland, QLD)

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-087 13:00-14:00

FEASIBILITY STUDY TO STUDY CORRELATES OF PRE- AND POSTNATAL BONDING IN (EXPECTING) MOTHERS IN A PUBLIC HOSPITAL SETTING

Buisman-Pijlman, Femke*, Wassef, N. Winefield, T. and Fielder, A.
(*University of Adelaide, SA)

POS-WED-088 14:00-15:00

COGNITION CAN BE IMPROVED WITH BARDOXOLONE METHYL TREATMENT IN MICE FED A HIGH FAT DIET

†Camer, Danielle*, Yu, Y., Szabo, A., Dinh, C., Fernandez, F. and Huang, X.
(*University of Wollongong, NSW)

POS-WED-089 13:00-14:00

EFFECTS OF POSITIVE ALLOSTERIC MODULATORS OF M4 MUSCARINIC RECEPTOR ON THE PHARMACOLOGICAL DISRUPTION OF PREPULSE INHIBITION IN MICE

†Chen, Amy Nae-Yng*, Picard, E., Christopoulos, A., Canals, M. and Malone, D. (*Monash University, VIC)

POS-WED-090 14:00-15:00

ACTIVITY IN THE INFRALIMBIC CORTEX AND NUCLEUS ACCUMBENS SHELL IS ASSOCIATED WITH METHAMPHETAMINE PLACE PREFERENCE

†Chesworth, Rose*, Brown, R., Hyun Kim, J., Ledent, C. and Lawrence, A.
(*Florey Institute of Neuroscience and Mental Health, VIC)

POS-WED-091 13:00-14:00

STRUCTURE-BASED APPROACHES TO THE DESIGN OF KYNURENINE AMINOTRANSFERASE INHIBITORS FOR THE MODULATION OF THE NMDA RECEPTOR

Church, William Bret* and Nadvi, N. (*University of Sydney, NSW)

POS-WED-092 14:00-15:00

BEHAVIOURAL AND NEURAL CORRELATES OF EXTENDED NICOTINE SELF-ADMINISTRATION IN RATS

Clemens, Kelly*, Lay, B., Cornish, J., Goodchild, A. and Castino, M.
(*University of New South Wales, NSW)

POS-WED-093 13:00-14:00

THE ROLE OF MGLU5 IN FEAR EXTINCTION IN THE DEVELOPING RAT

†Ganella, Despina E*, Thangaraju, P., Lawrence, A. and Kim, J. (*Florey Institute of Neuroscience and Mental Health, VIC)

†Indicates that presenter is a student

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-094 14:00-15:00

VITAMIN B12 DEFICIENCY PER SE IN EARLY LIFE LEADS TO ANXIETY IN MICE DURING ADULTHOOD

[†]**Ghosh, Shampa***, Sinha, J., Chakravarty, S., Kumar, A. and Raghunath, M. (*National Institute of Nutrition, INDIA)

POS-WED-095 13:00-14:00

NOVEL POSITIVE ALLOSTERIC MODULATORS OF THE $\alpha 7$ NICOTINIC ACETYLCHOLINE RECEPTOR DEMONSTRATE SAFE, EFFECTIVE COGNITIVE ENHANCEMENT IN MICE AND RATS

Grishin, Anton*, Andriambeloson, E., Avery, T., Coles, C., Huff, B., Huyard, B., Kolesik, P., Kolev, Y., Harvey, A. and O'Connor, S. (*Bionomics Limited, SA)

POS-WED-096 14:00-15:00

IMPACT OF ADULT VITAMIN D DEFICIENCY ON HIPPOCAMPAL NEUROGENESIS IN BALB/C MICE

[†]**Groves, Natalie***, Sullivan, R., McGrath, J. and Burne, T. (*University of Queensland, QLD)

POS-WED-097 13:00-14:00

INSENSITIVITY OF EEG GAMMA PEAKS TO EXTERNAL STIMULATION

[†]**Grummett, Tyler***, Willoughby, J., Fitzgibbon, S. and Pope, K. (*Flinders University, SA)

POS-WED-098 14:00-15:00

BEHAVIOURAL AND NEUROIMMUNOLOGICAL RESPONSES TO EARLY LIFE STRESS (ELS) AND SUBSEQUENT CHRONIC MILD STRESS (CMS) IN C57BL/6 MICE

[†]**Heriot, Natalie***, Toben, C., Jawahar, C. and Baune, B. (*University of Adelaide, SA)

POS-WED-099 13:00-14:00

NEUROPROTECTIVE EFFECTS OF ESTRADIOL ON SPATIAL MEMORY ARE REVERSED IN BDNF HETEROZYGOUS KNOCKOUT MICE

Hill, Rachel*, Wu, Y., Du, X. and van den Buuse, M. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-WED-100 14:00-15:00

THE EFFECT OF THE ANTI-PSYCHOTIC DRUG QUETIAPINE AND ITS METABOLITE NORQUETIAPINE ON ACUTE INFLAMMATION

Jaehne, Emily*, Corrigan, F., Jawahar, C., Toben, C. and Baune, B. (*University of Adelaide, SA)

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POS-WED-101 13:00-14:00

EXAMINING THE OLIGOMERIZATION, BINDING AND NEUROTOXIC PROPERTIES OF A β PEPTIDES ASSOCIATED WITH ALZHEIMER'S DISEASE

[†]**Jana, Metta***, Cappai, R., Pham, C. and Ciccotosto, G. (*University of Melbourne, VIC)

POS-WED-102 14:00-15:00

MATERNAL SEPARATION STRESS, A MODEL OF EARLY LIFE STRESS: UNDERSTANDING THE NEURO-IMMUNE INTERACTION EFFECT ON ADULT PSYCHIATRIC ILLNESSES

Jawahar, Magdalene*, Jaehne, E., Toben, C. and Baune, B. (*University of Adelaide, SA)

POS-WED-103 13:00-14:00

THE ROLES OF THE LATERAL HABENULA AND BASOLATERAL AMYGDALA IN PUNISHMENT

[†]**Jean-Richard dit Bressel, Philip*** and McNally, G. (*University of New South Wales, NSW)

POS-WED-104 14:00-15:00

EFFECT OF APOCYNIN ON DISRUPTIONS IN BEHAVIOUR AND BRAIN PARVALBUMIN IMMUNOREACTIVITY IN THE SUBCHRONIC PHENCYCLIDINE RAT MODEL OF SCHIZOPHRENIA

Jenkins, Trisha* and Nediyeath, K. (*RMIT University, VIC)

POS-WED-105 13:00-14:00

CLOZAPINE REVERSES THE ELECTROPHYSIOLOGICAL ABNORMALITIES AND ASSOCIATED DISRUPTION OF PREPULSE INHIBITION CAUSED BY NMDA RECEPTOR ANTAGONISTS

Jones, Nigel*, Hudson, M., Rind, G., Anderson, P., van den Buuse, M. and O'Brien, T. (*University of Melbourne, VIC)

POS-WED-106 14:00-15:00

RELAXIN-3/RXFP3 SYSTEM REGULATES STRESS-INDUCED REINSTATEMENT OF ALCOHOL-SEEKING IN BED NUCLEUS OF STRIA TERMINALIS IN RATS

[†]**Kastman, Hanna***, Krstew, E., Ryan, P., Gundlach, A. and Lawrence, A. (*Florey Institute of Neuroscience and Mental Health, VIC)

[†]Indicates that presenter is a student

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-107 13:00-14:00

UTILISING TOUCHSCREEN TECHNOLOGY FOR THE PRECLINICAL MODELING OF COGNITION IN A SCHIZOPHRENIA MOUSE MODEL

[†]**Lamont, Faith***, Hannan, A. and Burrows, E. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-WED-108 14:00-15:00

DOSE-DEPENDENT MK-801 INDUCED-SENSITISATION IN THE MALE SPRAGUE-DAWLEY RAT

[†]**Lefevre, Emilia***, Eyles, D. and Burne, T. (*University of Queensland, QLD)

POS-WED-109 13:00-14:00

THE EFFECT OF ANTI-INFLAMMATORY TREATMENTS ON BEHAVIOUR IN A GFAP-TNF^{+/+} MOUSE MODEL OF NEURO-INFLAMMATION

[†]**Li, Xi***, Jaehne, E., Jawahar, C., Corrigan, F. and Baune, B. (*University of Adelaide, SA)

POS-WED-110 14:00-15:00

AN IN VITRO STUDY OF THE EFFECT OF EDARAVONE ON THE NEUROTOXICITY OF AMYLOID- β

Lu, Jianjun*, Liu, J., Sum, Y., Lim Y., Sadipour, K., Zhong, J., Wang, Y. and Zhou, X. (*University of South Australia, SA)

Development & Regeneration

Posters 111 - 129

POS-WED-111 13:00-14:00

THE ROLE OF CELL ADHESION MOLECULE CHL1 IN VENTRAL MIDBRAIN DOPAMINE DEVELOPMENT

[†]**Alsanie, Walaa***, Bye, C., Thompson, L. and Parish, C. (*Florey Institute of Neuroscience and Mental Health, SA)

POS-WED-112 14:00-15:00

PURIFIED INTERNEURONS WHEN TRANSPLANTED CAN MIGRATE AND INTEGRATE INTO EMBRYONIC AND POSTNATAL CORTICAL CIRCUITS

Britto, Joanne*, Lee, P., Ng, H. and Tan, S. (*Florey Institute of Neuroscience and Mental Health, SA)

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POS-WED-113 13:00-14:00

REDUCED BMP RECEPTOR IA IN OLIGODENDROCYTE PROGENITOR CELLS ALTERS DIFFERENTIATION AND MYELINATION IN VITRO

Cate, Holly*, Cole, A., Venables, G. and Xiao, J. (*University of Melbourne, VIC)

POS-WED-114 14:00-15:00

DIFFERENTIATION AND PROLIFERATION IN SYMPATHOADRENAL CELLS

[†]**Chan, Wing Hei***, Gonsalvez, D., Young, H., Cane, K. and Anderson, C. (*University of Melbourne, VIC)

POS-WED-115 13:00-14:00

NOVEL EXPRESSION OF MICRORNA (MIR)-196A1 AND MIR-196A2 IN THE MAMMALIAN CENTRAL NERVOUS SYSTEM

[†]**Coughlan, Eamon***, Bourne, J. and McGlinn, E. (*Australian Regenerative Medicine Institute, VIC)

POS-WED-116 14:00-15:00

VITAMIN D PROMOTES DOPAMINERGIC CELLS DIFFERENTIATION OF VDR-TRANSFECTED HUMAN NEUROBLASTOMA LINE SH-SY5Y

Cui, Xiaoying*, Liu, P., Josh, P. and Eyles, D. (*University of Queensland, QLD)

POS-WED-117 13:00-14:00

EARLY ENVIRONMENTAL ENRICHMENT CAN PARTIALLY CORRECT ABERRANT RETINOGENICULATE PROJECTIONS IN TEN-M3 KNOCKOUT MICE

[†]**Eggs, Peta***, Leamey, C. and Sawatari, A. (*University of Sydney, NSW)

POS-WED-118 14:00-15:00

GENE EXPRESSION AND ELECTROPHYSIOLOGY PROFILES OF NEUROGENESIS IN THE ADULT MOUSE MIDBRAIN

[†]**Farzanehfar, Parisa***, Dey, A., Gazina, E., Boon, W., Horne, M. and Aumann, T. (*Florey Institute of Neuroscience & Mental Health, VIC)

POS-WED-119 13:00-14:00

ROLE OF NICOTINIC RECEPTOR SUBTYPES IN THE DEVELOPING ENTERIC NERVOUS SYSTEM OF MICE

Foong, Jaime*, Hao, M., McKeown, S., Boesmans, W., Young, H., Bornstein, J. and Vanden Berghe, P. (*University of Melbourne, VIC)

[†]*Indicates that presenter is a student*

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-120 14:00-15:00

OPTIMISATION OF RED / NEAR-INFRARED IRRADIATION THERAPY FOR TREATMENT OF NEUROTRAUMA

[†]**Giacci, Marcus***, Hart, N., Harvey, A., Hodgetts, S. and Fitzgerald, L.
(*University of Western Australia, WA)

POS-WED-121 13:00-14:00

GLIAL-MEDIATED INTERHEMISPHERIC FUSION IS REQUIRED FOR EARLY FOREBRAIN DEVELOPMENT AND COMMISSURE FORMATION

Gobius, Ilan*, Morcom, L., Bunt, J. and Richards, L. (*University of Queensland, QLD)

POS-WED-122 14:00-15:00

ANALYSING THE ROLE OF 14-3-3 ζ IN INTERNEURON DEVELOPMENT

[†]**Greenberg, Zarina***, Ramshaw, H., Xu, X., Lopez, A. and Schwarz, Q. (*Centre for Cancer Biology, SA)

POS-WED-123 13:00-14:00

HETEROZYGOSITY FOR NUCLEAR FACTOR ONE X AFFECTS HIPPOCAMPAL-DEPENDENT BEHAVIOUR IN MICE

Harris, Lachlan*, Cato, K., Heng, Y., Kurniawan, N., Ullmann, J., Janke, A., Gronostajski, R., Richards, L., Burne, T. and Piper, M. (*University of Queensland, QLD)

POS-WED-124 14:00-15:00

CYSTATIN C REGULATES NEURAL STEM OR PROGENITOR CELL PROLIFERATION

[†]**Hu, Yanling***, Bolos, M., Dawkins, E., Foa, L., Young, K. and Small, D.
(*Menzies Research Institute, TAS)

POS-WED-125 13:00-14:00

β -CATENIN IS REQUIRED FOR MAINTAINING HIPPOCAMPAL MORPHOLOGY DURING THE PERINATAL PERIOD

[†]**Hu, Ze-Lan***, Wang, H., Zeng, L., Chen, Q., Zhang, X., Lu, T., Zheng, J. and Xiong, Z. (*East China University of Science and Technology, CHINA)

POS-WED-126 14:00-15:00

EFFECTS OF AGING ON HUMAN OREXIN EXPRESSION IN THE BRAIN; IMPLICATIONS FOR SLEEP REGULATION AND ENERGY METABOLISM

[†]**Hunt, Nicholas***, Waters, K., Rodriguez, M. and Machaalani, R. (*University of Sydney, NSW)

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POS-WED-127 13:00-14:00

OPTIMISATION OF METHODS TO IMAGE BRAIN VASCULATURE AND VASCULAR REMODELING AFTER PHOTO THROMBOTIC STROKE

[†]**Jones, Kimberley***, Patience, M., Nilsson, M. and Walker, F. (*University of Newcastle, NSW)

POS-WED-128 14:00-15:00

THE ROLE OF EXTRINSIC VS PRE-PROGRAMMED INTRINSIC SIGNALS DURING NEURAL DEVELOPMENT IN THE ZEBRAFISH RETINA

Jusuf, Patricia*, Ng, J. and Currie, J. (*Monash University, VIC)

POS-WED-129 13:00-14:00

PROTEIN ARGININE METHYLATION OF TUBULIN ALPHA AND BETA IN MOUSE NEURONS

[†]**Jwad, Noor***, Hejazi, L., Sucher, N. and Piller, S. (*University of Western Sydney, NSW)

Excitability & Synaptic Transmission

Posters 130 - 143

POS-WED-130 14:00-15:00

SEROTONERGIC MODULATION OF NEUROTRANSMITTER RELEASE IN LAYER II/III PYRAMIDAL NEURONS IN RAT SOMATOSENSORY CORTEX

[†]**Agahari, Fransiscus Adrian*** and Stricker, C. (*JCSMR Australian National University, ACT)

POS-WED-131 13:00-14:00

PICK1 INTERACTS WITH PACSIN TO REGULATE AMPA RECEPTOR INTERNALISATION AND CEREBELLAR LONG-TERM DEPRESSION

Anggono, Victor*, Widagdo, J., Quan, A., Robinson, P., Linden, D., Plomann, M. and Huganir, R. (*University of Queensland, QLD)

POS-WED-132 14:00-15:00

BEHAVIOURAL ANALYSIS GASTROINTESTINAL FUNCTION OF THE NL3R451C MOUSE MODEL OF AUTISM

[†]**Archer, Niketa***, Hill-Yardin, E. and Bornstein, J. (*University of Melbourne, VIC)

[†]Indicates that presenter is a student

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-133 13:00-14:00

IMPACT OF SK CHANNELS ON CORTICAL EXCITABILITY IN VIVO

[†]**Bock, Tobias*** and Stuart, G. (*Australian National University, ACT)

POS-WED-134 14:00-15:00

DECIPHERING INTRACORTICAL CIRCUITS IN THE ANTERIOR PIRIFORM CORTEX USING OPTOGENETICS

Choy, Julian*, Shima, Y., Nelson, S. and Bekkers, J. (*Australian National University, ACT)

POS-WED-135 13:00-14:00

MODELING EXCITOTOXIC BRAIN INJURY OF CEREbellar PURKINJE NEURONS IN VITRO

Craig, Amanda*, Fath, T. and Housley, G. (*University of New South Wales, NSW)

POS-WED-136 14:00-15:00

THE ACTIN CYTOSKELETON REGULATES EXCITOTOXICITY IN THE MOUSE

Fath, Thomas*, Suchowerska, A., Chen, B., Müller, J., Ittner, A., Hardeman, E., Ittner, L., Janitz, M. and Gunning, P. (*University of New South Wales, NSW)

POS-WED-137 13:00-14:00

PHARMACOLOGICAL PRECONDITIONING WITH GYKI-52466 IN A KAINIC-ACID SEIZURE MODEL: THE ROLE OF NA⁺K⁺-ATPASE MODULATION

[†]**Goulton, Chelsea*** and Kerr, S. (*University of Otago, NZ)

POS-WED-138 14:00-15:00

DIFFERENTIAL RESPONSE TO NEUROMODULATORS IN CALRETININ EXPRESSING NEURONS IN THE SPINAL DORSAL HORN

Graham, Brett*, Smith, K., Madden, J., Dickinson, S., Callister, R., Boyle, K. and Hughes, D. (*University of Newcastle, NSW)

POS-WED-139 13:00-14:00

PULSED MAGNETIC FIELDS MODULATE NEURONAL PRIMARY METABOLITES IN VITRO

[†]**Hong, Ivan***, Maker, G., Mullaney, I., Garrett, A., Rodger, J. and Etherington, S. (*Murdoch University, WA)

POS-WED-140 14:00-15:00

THE PEPTIDE CART EXCITES VASOMOTOR SYMPATHETIC NEURONS

Jennings, Ernie*, McAllen, R. and Anderson, C. (*James Cook University, QLD)

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POS-WED-141 13:00-14:00

ACTION POTENTIAL INDUCED SUPPRESSION OF EPSPS BY SK CHANNELS IN DENDRITES

[†]**Jones, Scott*** and Stuart, G. (*Australian National University, ACT)

POS-WED-142 14:00-15:00

PAIN INDUCED SYNAPTIC PLASTICITY IN THE AMYGDALA

[†]**Kissiwaa, Sarah*** and Bagley, E. (*University of Sydney, NSW)

POS-WED-143 13:00-14:00

CLOSTRIDIUM DIFFICILE TOXIN A AND GABA INCREASE THE EXCITABILITY OF MYENTERIC INTRINSIC SENSORY NEURONS IN THE GUINEA-PIG JEJUNUM

[†]**Koussoulas, Katerina***, Gwynne, R., Foong, J., Savidge, T and Bornstein, J. (*University of Melbourne, VIC)

Glia

Posters 144 - 152

POS-WED-144 14:00-15:00

PULSED MAGNETIC FIELDS AFFECT ASTROCYTIC GLUTAMATE TRANSPORTERS IN A FREQUENCY-DEPENDENT MANNER

Bates, Kristyn*, Fuller, P., Penrose, M., Deballon, J., Harvey, A. and Rodger, J. (*University of Western Australia, WA)

POS-WED-145 13:00-14:00

ASTROCYTES IN TPD-43 PATHOLOGY

Chen, Tong*, Beart, P., Turner, B. and Muyderman, H. (*Flinders University, SA)

POS-WED-146 14:00-15:00

THE PRO-MYELINATING SIGNALLING KINASES ERK1/2 PHOSPHORYLATE OLIGODENDROCYTE-SPECIFIC TRANSCRIPTION FACTORS

[†]**Ferner, Anita***, Xiao, J., Giuffrida, L., Peckham, H., Kilpatrick, T. and Murray, S. (*University of Melbourne, VIC)

POS-WED-147 13:00-14:00

ASSESSING THE ROLE OF GPR62 IN THE MYELINATING OLIGODENDROCYTES OF THE CNS

[†]**Hay, Curtis***, Jackson, S., Koenning, M., Bujalka, H. and Emery, B. (*University of Melbourne, VIC)

[†]*Indicates that presenter is a student*

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POS-WED-148 14:00-15:00

ALCOHOL-INDUCED SEDATION AND SYNERGISTIC INTERACTIONS BETWEEN ALCOHOL AND MORPHINE: A KEY MECHANISTIC ROLE FOR TOLL-LIKE RECEPTORS AND MYD88-DEPENDENT SIGNALING

Hutchinson, Mark*, Corrigan, F., Wu, y., Tuke, J., Collier, J., Rice, K. and Somogyi, A. (*University of Adelaide, SA)

POS-WED-149 13:00-14:00

ATTENUATION OF TOLL-LIKE RECEPTOR 4 REDUCES REWARD-LIKE BEHAVIOURS IN MICE

[†]**Jacobsen, Jonathan Henry*** and Hutchinson, M. (*University of Adelaide, SA)

POS-WED-150 14:00-15:00

CHRONIC CODEINE AND INCREASES IN PAIN SENSITIVITY: MECHANISTIC INSIGHTS AND POTENTIAL TREATMENT STRATEGIES

[†]**Johnson, Jacinta***, Rolan, P., William, D. and Hutchinson, M. (*University of Adelaide, SA)

POS-WED-151 13:00-14:00

CALORIE RESTRICTION ATTENUATES LIPOPOLYSACCHARIDE (LPS)-INDUCED MICROGLIAL ACTIVATION IN DISCRETE REGIONS OF THE HYPOTHALAMUS AND THE SUBFORNICAL ORGAN

Kent, Stephen*, Radler, M. and Hale, M. (*La Trobe University, VIC)

POS-WED-152 14:00-15:00

CHRONIC RESTRAINT STRESS INDUCED REMODELLING OF ASTROCYTES IN THE RAT HIPPOCAMPUS

Kongsui, Ratchaniporn* and Walker, R. (*University of Newcastle, NSW)

Limbic & Other Systems

Posters 153 - 155

POS-WED-153 13:00-14:00

SUBSTANCE P PROMOTES THE TRANSLOCATION OF THE $\hat{\gamma}$ -OPIOID RECEPTOR ON CHOLINERGIC INTERNEURONS IN THE STRIATUM

[†]**Heath, Emily***, Chieng, B., Laurent, V., Bertran-Gonzalez, J., Christie, M. and Balleine, B. (*University of Sydney, NSW)

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-154 14:00-15:00

THE PHARMACOLOGICAL PROFILE OF LOCAL POSTERIOR HYPOTHALAMIC THETA RHYTHM IN ANESTHETIZED RATS

Konopacki, Jan*, Klos P., Caban, B., Kazmierska, P., Bocian, R. and Kowalczyk, T. (*University of Lodz, POLAND)

POS-WED-155 13:00-14:00

A SELECTIVE OREXIN-1 RECEPTOR ANTAGONIST SB-334867 ATTENUATES RAT ANXIETY DURING CAT ODOUR EXPOSURE

†Vanderhaven, Michael*, Goodchild, A., Cornish, J. and Staples, L. (*Macquarie University, NSW)

Motor Systems

Posters 156 - 162

POS-WED-156 14:00-15:00

STEM CELL TRANSPLANTATION IN TRAUMATIC SPINAL CORD INJURY: A SYSTEMATIC REVIEW AND META-ANALYSIS

†Antonic, Ana*, Sena, E., Lees, J., Wills, T., Skeers, P., Batchelor, P., Macleod M. and Howells, D. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-WED-157 13:00-14:00

BLOCKING 5-HT_{2A} AND 5-HT₇ BUT NOT 5-HT_{2C} RECEPTORS IMPAIRS LOCOMOTION IN INTACT RATS

Cabaj, Anna M*, Sławińska, U., Jordan, L. and Majczynski, H. (*Institute of Biocybernetics and Biomedical Engineering, POLAND)

POS-WED-158 14:00-15:00

CAN PRO-INFLAMMATORY CYTOKINE GENE EXPRESSION EXPLAIN MULTIFIDUS MUSCLE FIBRE CHANGES AFTER AN INTERVERTEBRAL DISC LESION?

Hodges, Paul*, James, G., Blomster, L., Hall, L., Schmid, A., Shu, C., Little, C. and Melrose, J. (*University of Queensland, QLD)

†Indicates that presenter is a student

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-159 13:00-14:00

MICROSTIMULATION OF SINGLE MOTOR AXONS: A COMPARISON OF THE CONTRACTILE RESPONSES TO IRREGULAR AND REGULAR TRAINS OF STIMULI

[†]**Leitch, Michael***, Brown, R. and Macefield, V. (*University of Western Sydney, NSW)

POS-WED-160 14:00-15:00

MOTOR END PLATE (MEP) TARGETED ADMINISTRATION OF NEUROANATOMICAL TRACER IN THE RAT HINDLIMB ENHANCES RETROGRADE TRANSPORT INTO SPINAL CORD MOTOR NEURONS

[†]**Mohan, Rahul***, Tosolini, A. and Morris, R. (*University of New South Wales, NSW)

POS-WED-161 13:00-14:00

DISSOCIATION OF THE EFFECT OF LESIONS TO THE PARVOCELLULAR AND MAGNOCELLULAR COMPARTMENTS OF THE RED NUCLEUS (RN) ON SKILLED REACHING: AN ANATOMICAL AND BEHAVIOURAL INVESTIGATION IN THE RAT

Morris, Renee* and Vallerster, K. (*University of New South Wales, NSW)

POS-WED-162 14:00-15:00

INVESTIGATING TASK RELATED CHANGES IN INTRACORTICAL INHIBITION USING PAIRED- AND TRIPLE-PULSE TRANSCRANIAL MAGNETIC STIMULATION

[†]**Opie, George*** and Semmler, J. (*University of Adelaide, SA)

Neuroengineering

Posters 163 - 164

POS-WED-163 13:00-14:00

A MULTI-SIMULATOR FRAMEWORK FOR ACCESSIBLE LARGE-SCALE SIMULATIONS OF BIOPHYSICAL NEURONAL NETWORKS

Close, Thomas*, Raikov, I. and De Schutter, E. (*Okinawa Institute of Science and Technology Graduate University, JAPAN)

POS-WED-164 14:00-15:00

EVALUATION OF HEURISTICS FOR ELIMINATING MUSCLE ACTIVITY FROM ELECTROENCEPHALOGRAM

Fitzgibbon, Sean*, DeLosAngeles, D., Lewis, T., Powers, D., Willoughby, J. and pope, K. (*Flinders University, SA)

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New Techniques in Neuroscience

Posters 165 - 174

POS-WED-165 13:00-14:00

DEVELOPING YEAST AS A SCREENING TOOL FOR IDENTIFYING NOVEL THERAPEUTIC AGENTS FOR ALZHEIMER'S DISEASE

Bharadwaj, Prashant*, Verdile, G. and Martins, R. (*Edith Cowan University, WA)

POS-WED-166 14:00-15:00

REGISTERING CORTICAL MAPPING DATA TO THE MARMOSET ATLAS

†Chaplin, Tristan A*, Yu, H., Majka, P., Yen, C., Bakola, S., Kowalski, J., Burman, K., Wójcik, D., Silva, A. and Rosa, M. (*Monash University, VIC)

POS-WED-167 13:00-14:00

RADIATION INDUCED EXPRESSION OF PLATELET ENDOTHELIAL CELL ADHESION MOLECULE-1 IN ARTERIOVENOUS MALFORMATIONS AND CEREBRAL ENDOTHELIAL CELLS

†Chen, Biyi*, Raoufi-Rad, N., Reddy, R., Zhao, Z., Lee, V., Grace, M., Ukath, J. and Stoodley, M. (*University of New South Wales, NSW)

POS-WED-168 14:00-15:00

RADIATION INDUCED EXPRESSION OF VON WILLEBRAND FACTOR, HIGH-MOBILITY GROUP AT-HOOK 2, AND ENDOTHELIAL CELL-SELECTIVE ADHESION MOLECULE GENES IN CEREBRAL ENDOTHELIAL CELLS

†Chen, Biyi*, Raoufi-Rad, N., Reddy, R., Zhao, Z., Lee, V., Grace, M., Ukath, J. and Stoodley, M. (*University of New South Wales, NSW)

POS-WED-169 13:00-14:00

TRACKING OF AUTOLOGOUS VSOP-LABELED MESENCHYMAL STEM CELLS IN THE SHEEP BRAIN USING 3T MRI

Dreyer, Antje Y*, Nitzsche, B., Pösel, C., Zeisig, C., Lobsien, D., Hoffmann, K. and Boltze, J. (*Fraunhofer IZI, GERMANY)

POS-WED-170 14:00-15:00

FEMTOSECOND-LASER DENDROTOMY

†Go, Mary Ann*, Colibaba, A., Stricker, C., Redman, S., Bachlor, H. and Daria, V. (*Australian National University, ACT)

†Indicates that presenter is a student

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-171 13:00-14:00

FREQUENCY-SPECIFIC EFFECTS OF PMF STIMULATION ON NEURO-CIRCUIT REPAIR AND SINGLE CORTICAL CELLS IN VITRO

†**Grehl, Stephanie***, Viola, H., Fuller, P., Carter, K., Dunlop, S., Hool, L., Sherrard, R. and Rodger, J. (*University of Western Australia, WA)

POS-WED-172 14:00-15:00

MONITORING ALPHA-SYNUCLEIN FIBRILLISATION BY NOVEL AGGREGATION-INDUCED EMISSION FLUOROGENS

Guo, Feng*, Hong, Y., Leung, C., Tang, Y., Chegini, F., Chataway, T., Rodgers, M., Tang, B. and Gai, W. (*Flinders University, SA)

POS-WED-173 13:00-14:00

IN VIVO MACROPHAGE POLARISATION INDUCED BY INTERLEUKIN 10 (IL 10) FUNCTIONALISED ELECTROSPUN NANOFIBRE SCAFFOLDS IN THE PERIPHERAL NERVOUS SYSTEM

†**Farhia, Haque***, Nisbet, D., Potas, J. and Maclean, F. (*Australian National University, ACT)

POS-WED-174 14:00-15:00

OPERANT CONDITIONING BOXES TO INVESTIGATE THE EFFECTS OF LPS INDUCED ANHEDONIA; PROVIDING THE LINK BETWEEN NEUROINFLAMMATION AND BEHAVIOURAL RESPONSES

†**Iacopetta, Krystal***, Hutchinson, M. and uisman-Pijlman, F. (*University of Adelaide, SA)

Sensory Systems

Posters 175 - 195

POS-WED-175 13:00-14:00

TRPV1-IMMUNOREACTIVE NERVE TERMINALS IN THE CORNEAL EPITHELIUM

†**Alamri, Abdulhakeem***, Ivanusic, J. and Brock, J. (*University of Melbourne VIC)

POS-WED-176 14:00-15:00

A BIOLOGICALLY INSPIRED FACILITATION MECHANISM ENHANCES THE DETECTION AND PURSUIT OF TARGETS OF VARYING CONTRAST

†**Bagheri, Zahra***, Wiederman, S., Cazzolato, B., Grainger, S. and O'Carroll, D. (*University of Adelaide, SA)

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-177 13:00-14:00

SENSORY NERVE FIBRES CONTAINING CALCITONIN GENE-RELATED PEPTIDE
IN BACK MUSCLES AND FASCIAE

Barry, Christine*, Vilimas, P., Haberberger, R. and Gibbins, I. (*Flinders
University, SA)

POS-WED-178 14:00-15:00

GREEN EYES - CANNABINOID MODULATION OF VISUAL FUNCTION IN MICE

†Brandli, Alice* and Protti, D. (*University of Sydney NSW)

POS-WED-179 13:00-14:00

α - CONOTOXIN VC1.1 TARGETS GABA_B RECEPTORS MODULATING N-TYPE
(CA_v 2.2) CALCIUM CHANNELS IN SENSORY PATHWAYS MEDIATING
CHRONIC VISCERAL PAIN

Brierley, Stuart*, Harrington, A., Castro, J., Garcia-Caraballo, S., Craik, D.
and Adams, D. (*University of Adelaide, SA)

POS-WED-180 14:00-15:00

ACTIVATION OF EXTRINSIC SENSORY NEURONS ASSOCIATED WITH
MOTILITY OF THE ISOLATED GUINEA PIG COLON

Brookes, Simon*, Chen, B., Humenick, A., Dinning, P., Wiklendt, L.,
Arkwright, J., Zagorodnyuk, V., Spencer, N. and Costa, M. (*Flinders
University, SA)

POS-WED-181 13:00-14:00

SPINAL CORD PAIN PROCESSING - ABSENCE OF SPHINGOSINE KINASE 2

†Carroll, Alexander*, Vilimas, P., Pitson, S., Gibbins I. and Haberberger, R.
(*Flinders University, SA)

POS-WED-182 14:00-15:00

DIFFUSE TRAUMATIC BRAIN INJURY AND CORTICAL INHIBITION

†Carron, Simone*, Yan, E., Burman, K. and Rajan, R. (*Monash University,
VIC)

POS-WED-183 13:00-14:00

MICROSACCADE-LIKE RETINAL MOVEMENTS IN THE BLOWFLY CALLIPHORA
STYGIA

†Ciobanu, Liliana*, Wiederman, S. and O'Carroll, D. (*University of
Adelaide, SA)

[†] Indicates that presenter is a student

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-184 14:00-15:00

NON-INFORMATIVE VISION ENHANCES TACTILE ACUITY: A SYSTEMATIC REVIEW

[†]**Eads, Jacki***, Hillier, S. and Moseley, L. (*University of South Australia, SA)

POS-WED-185 13:00-14:00

NEURAL ADAPTATION OF THE N170 IS AFFECTED BY ADAPTOR STIMULUS DURATION AND INTERSTIMULUS INTERVAL

[†]**Feuerriegel, Daniel**, Churches, O., Kohler, M. and Keage, H. (*University of South Australia, SA)

POS-WED-186 14:00-15:00

BEHAVIOURAL INDICATORS OF PERCEPTUAL STATE

Freeman, Alan*, Luo-Li, G. and Alais, D. (*University of Sydney, NSW)

POS-WED-187 13:00-14:00

DISTRIBUTION OF VISUAL AND SOMATOSENSORY SIGNALS IN SUPERIOR COLLICULUS OF RAT

[†]**Gharaei, Saba***, Arabzadeh, E. and Solomon, S. (*Australian National University, ACT)

POS-WED-188 14:00-15:00

COMPARISON OF TECHNIQUES FOR AUTOMATED MAPPING OF RECEPTIVE FIELDS OF LARGE NEURONAL POPULATIONS IN PRIMATE CORTEX

Haghighooie, Saman*, Yu, H., Davies, A., Zavith, E., Price, N. and Rosa, M. (*Monash University, VIC)

POS-WED-189 13:00-14:00

SPEED PERCEPTION FOLLOWING ADAPTATION IS NOT INFLUENCED BY GLOBAL ACCELERATION PATTERNS

Hietanen, Marcus (National Vision Research Institute, VIC)

POS-WED-190 14:00-15:00

STRETCH AND DISTENSION OF MESENTERIC BLOOD VESSELS INCREASES EXTRINSIC AFFERENT DISCHARGE IN THE ISOLATED GUINEA PIG ILEUM

Humenick, Adam*, Chen, B. and Brookes, S. (*Flinders University, SA)

POS-WED-191 13:00-14:00

SELECTIVE INSECT TARGET TRACKING USING A BIOPHYSICALLY INSPIRED SPIKING WINNER-TAKE-ALL NETWORK

Iannella, Nicolangelo*, Shoemaker, P., Wiederman, S. and O'Carroll, D. (*University of Adelaide, SA)

POSTERS - WEDNESDAY 29 JANUARY 2014

POS-WED-192 14:00-15:00

EXPRESSION OF A MECHANICALLY SENSITIVE CHANNEL (PIEZO2) IN CORNEAL AFFERENT NEURONS

Ivanusic, Jason*, Bron, R. and Brock, J. (*University of Melbourne, VIC)

POS-WED-193 13:00-14:00

PREDOMINANCE OF RADIAL ORIENTATIONS IN THE ORIENTATION MAP OF THE MACAQUE PRIMARY VISUAL CORTEX

Jayakumar, Jaikishan*, Mohan, Y., Levichkina, E. and Vidyasagar, T. (*University of Melbourne, VIC)

POS-WED-194 14:00-15:00

NEURAL BASIS OF BINOCULAR RIVALRY IN PRIMARY VISUAL CORTEX OF THE MOUSE

Keshavarzi, Sepideh* and Stuart, G. (*Australian National University, ACT)

POS-WED-195 13:00-14:00

NOCICEPTIVE DORSAL HORN NEURONS RECEIVE CONVERGENT CONTACTS FROM PRIMARY AFFERENT TERMINALS EXPRESSING CALCITONIN GENE-RELATED PEPTIDE BUT NOT SUBSTANCE P

[†]Kestell, Gareth*, Haberberger, R. and Gibbins, I. (*Flinders University, SA)

[†]Indicates that presenter is a student

POSTERS - THURSDAY 30 JANUARY 2014

12:30-14:30 POSTER SESSION B

Location: Halls J&K, Adelaide Convention Centre

Presenters of odd numbered posters in attendance 12:30 - 13:30

Presenters of even numbered posters in attendance 13:30 - 14:30

Posters 001 - 028	Autonomic Autonomic/Neuroendocrine Systems
Posters 029 - 082	Clinical Disorders & Injury of the Nervous System
Posters 083 - 115	Cognition, Learning & Behaviour
Posters 116 - 132	Development & Regeneration
Posters 133 - 145	Excitability & Synaptic Transmission
Posters 146 - 153	Glia
Posters 154 - 161	Motor Systems
Posters 162 - 172	New Techniques in Neuroscience
Posters 173 - 194	Sensory Systems
Posters 195 - 201	Late Posters

Autonomic Autonomic/Neuroendocrine Systems Posters 001 - 028

POS-THU-001 12:30-13:30

NEUROPROTECTIVE EFFECT OF THE TOTAL FLAVANONES FROM IRIS TENUIFOLIA AGAINST OXIDATIVE STRESS-INDUCED CELL DEATH THROUGH THE ACTIVATION OF PHOSPHORYLATION OF MITOGEN-ACTIVATED PROTEIN KINASE

[†]**Jalsrai, Aldarmaa***, Tadahiro, N., Naoki, A. and Kunugi, H. (*Center of Traditional Medicine, MONGOLIA)

POS-THU-002 13:30-14:30

ANATOMICAL CONNECTIVITY OF PUTATIVELY RHYTHMOGENIC NEURONES OF THE NUCLEUS RETROAMBIGUUS WITH THE CENTRAL PATTERN GENERATOR FOR BREATHING

[†]**Jones, Sarah***, Dutschmann, M. and Stanic, D. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-THU-003 12:30-13:30

OREXINERGIC ACTIVATION OF MEDULLARY PREMOTOR NEURONS MEDIATES THE ADRENAL SYMPATHOEXCITATION TO HYPOTHALAMIC GLUCOPRIVATION

Korim, Wilian*, Bou-Farah, L. McMullan, S. and Verberne, A. (*University of Melbourne, VIC)

POSTERS - THURSDAY 30 JANUARY 2014

POS-THU-004 13:30-14:30

ABLATION OF AREA MT IN EARLY LIFE HAS SIGNIFICANT IMPACT ON THE REMAINING ANATOMY OF THE VISUAL SYSTEM, INCLUDING V1

Kwan, William*, Warner, C. and Bourne, J. (*Monash University, VIC)

POS-THU-005 12:30-13:30

VALIDATING AN ANIMAL MODEL FOR OLANZAPINE-INDUCED OBESITY: RESPONSES TO WITHDRAWAL AND REINTRODUCTION OF OLANZAPINE

†Lian, Jiamei*, Huang, X., Pai, N. and Deng, C. (*University of Wollongong, NSW)

POS-THU-006 13:30-14:30

THE EFFECT OF BOTULINUM TOXIN TYPE A ON NEUROTRANSMISSION IN PORCINE BLADDER

Liu, Lu*, Bahadory, F., Burcher, E., Mansfield, K. and Moore, K. (*University of New South Wales, NSW)

POS-THU-007 12:30-13:30

PANNEXIN-1, AN ATP RELEASE CHANNEL, IS DOWNREGULATED IN THE COLONIC MUCOSA OF PATIENTS WITH SLOW TRANSIT CONSTIPATION

Liu, Lu*, Markus, I., Diezmos, E., Sandow, S. and Bertrand, P. (*University of New South Wales, NSW)

POS-THU-008 13:30-14:30

DAMAGE TO SUBMUCOSAL NEURONS AS A RESULT OF TREATMENT WITH ANTI-CANCER AGENT IRINOTECAN

†McQuade, Rachel* and Nurgali, K. (*Victoria University, VIC)

POS-THU-009 12:30-13:30

EVIDENCE FOR BRAINSTEM INFLAMMATION FOLLOWING RESPIRATORY PNEUMOVIRUS INFECTION IN MICE

†Narula, Monica*, Yang, S., McGovern, A., Eacharath, J., Phipps, S. and Mazzone, S. (*University of Queensland, QLD)

POS-THU-010 13:30-14:30

INCREASE IN VOIDING AT EARLY STAGE OF BLADDER OBSTRUCTION IS UNLIKELY TO BE DUE TO CHANGES IN CONTRACTILE OR EFFERENT NEURAL ACTIVITY

Nicholas, Sarah*, Brookes, S., Spencer, N., Costa, M. and Zagorodnyuk, V. (*Flinders University, SA)

†Indicates that presenter is a student

POSTERS - THURSDAY 30 JANUARY 2014

POS-THU-011 12:30-13:30

UNDERSTANDING MECHANISMS OF RECTAL PROLAPSE IN THE MOUSE
MODEL OF SPONTANEOUS CHRONIC COLITIS: DAMAGE TO THE MUSCLES
AND NERVES

Kulmira, Nurgali*, Rahman, A., Randall-Demllo, S., Carbone, S., Jovanovska,
V. and Eri, R. (*Victoria University, VIC)

POS-THU-012 13:30-14:30

DIFFERENTIAL EFFECTS OF ARIPIRAZOLE AND HALOPERIDOL ON THE
NIGROSTRIATAL AND MESOCORTICAL DOPAMINERGIC PATHWAYS IN MALE RATS

[†]**Pan, Bo***, Huang, X. and Deng, C. (*University of Wollongong, NSW)

POS-THU-013 12:30-13:30

THE REGENERATIVE AND PLASTIC BEHAVIOR OF PELVIC AUTONOMIC AND
SENSORY NEURONS FOLLOWING AXOTOMY

Payne, Sophie* and Keast, J. (*University of Melbourne, VIC)

POS-THU-014 13:30-14:30

BAROREFLEX CONTROL OF SPLANCHNIC, RENAL AND LUMBAR SYMPATHETIC
NERVE ACTIVITY IS DIFFERENTIALLY REGULATED BY ANGIOTENSIN II IN CHRONIC
KIDNEY DISEASE

Phillips, Jacqueline*, Yao, Y., Hildreth, C. and Farnham, M. (*Macquarie
University, NSW)

POS-THU-015 12:30-13:30

BLOCKADE OF ACID SENSING ION CHANNELS ALTERS MOTILITY OF GUINEA
PIG PROXIMAL COLON

[†]**Polglaze, Kate*** and Bertrand, P. (*RMIT University, VIC)

POS-THU-016 13:30-14:30

SEGMENTAL ORIGINS OF CARDIAC SYMPATHETIC NERVE ACTIVITY IN RATS

[†]**Pracejus, Natasha*** and McAllen, R. (*Florey Institute of Neuroscience and
Mental Health, VIC)

POS-THU-017 12:30-13:30

IS REDUCTION OF FATTY ACID OXIDATION A STIMULUS FOR FOOD INTAKE?

Ritter, Sue*, Li, A and Qang, Q (*Washington State University, USA)

POS-THU-018 13:30-14:30

A NEUROPHYSIOLOGICAL STUDY OF THE MEDULLARY SYMPATHETIC
PATHWAY TO THE ADRENAL GLAND

[†]**Sabetghadam, Azadeh***, Korim, W. and Verberne, T. (*University of Melbourne,
VIC)

POSTERS - THURSDAY 30 JANUARY 2014

POS-THU-019 12:30-13:30

SKIN TO NEURONS: DERIVATION OF NEURONS FROM ADULT HUMAN SKIN NEURAL PRECURSOR CELLS (SKPS)

[†]**Seaton-Zozula, Ariel***, Guillemin, G., Lewis, T., Loeffler, A. and Valenzuela, M. (*Macquarie University, NSW)

POS-THU-020 13:30-14:30

INSULIN INDUCED HYPOGLYCAEMIA INCREASES ADRENALINE SECRETION AND TYROSINE HYDROXYLASE PHOSPHORYLATION IN RAT BRAIN AND ADRENAL GLAND

[†]**Senthilkumaran, Manjula***, Johnson, M. and Bobrovskaya, L. (*University of South Australia, SA)

POS-THU-021 12:30-13:30

MECHANISMS UNDERLYING HEXAMETHONIUM AND ATROPINE RESISTANT PERISTALSIS IN THE GUINEA-PIG DISTAL COLON

[†]**Sia, Tiong Cheng***, Brookes, S., Dinning, P., Wattchow, D. and Spencer, N. (*Flinders University, SA)

POS-THU-022 13:30-14:30

NEURONAL LOSS IN THE MYENTERIC PLEXUS ASSOCIATED WITH THE ANTI-CANCER CHEMOTHERAPEUTIC AGENT IRINOTECAN

[†]**Stojanovska, Vanesa*** and Nurgali, K. (*Victoria University, VIC)

POS-THU-023 12:30-13:30

INTER-INDIVIDUAL DIFFERENCES IN BLOOD PRESSURE RESPONSES TO STRESSORS: A ROLE FOR THE BAROREFLEX?

Taylor, Chloe*, El Sayed, K., Joyner, M. and Macefield, V. (*University of Western Sydney, NSW)

POS-THU-024 13:30-14:30

VAGUS NERVE ACTIVITY, A GOOD NIGHT'S SLEEP, AND RECOVERY FROM ACUTE INFECTION

Vollmer-Conna, Ute*, Cvejic, E., Gunawardane, U., Patel, V. and Lloyd, A. (*University of New South Wales, NSW)

POS-THU-025 12:30-13:30

DEVELOPMENT OF AXONAL PROJECTIONS TO THE URINARY BLADDER IN EMBRYONIC MOUSE

Wallace, Adam*, Richardson, E. and Keast, J. (*University of Melbourne, VIC)

[†]Indicates that presenter is a student

POSTERS - THURSDAY 30 JANUARY 2014

POS-THU-026 13:30-14:30

CHARACTERISATION OF RELAXIN-3- AND RXFP3 RECEPTOR-POSITIVE NEURON POPULATIONS IN ADULT MOUSE BRAIN

[†]**Zhang, Cary***, Walker, A., Chua, B., Hossain, M., Rosengren, J., Smith, C. and Gundlach, A. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-THU-027 12:30-13:30

GENDER-SPECIFIC ROLE OF NEUROPEPTIDE FF RECEPTOR-2 SIGNALLING IN THE REGULATION OF ENERGY HOMEOSTASIS

Zhang, Lei*, Lee, I. and Herzog, H. (*Garvan Institute of Medical Research, NSW)

POS-THU-028 13:30-14:30

NEURONAL IMAGING OF ENTERIC GANGLIA REVEALS SYNCHRONIZED OSCILLATORY FIRING IN A NETWORK OF MYENTERIC NEURONS DURING MURINE COLONIC MIGRATING MOTOR COMPLEXES

[†]**Zobel, Joshua***, Travis, L. and Spencer, N. (*Flinders University, SA)

Clinical Disorders & Injury of the Nervous System

Posters 029 - 082

POS-THU-029 12:30-13:30

VERIFICATION OF C9ORF72 EXPANSION FREQUENCY IN ANOTHER AUSTRALIAN COHORT

MacMillan, Mia*, Huang, Y., Bartley, L. and Halliday, G. (*Neuroscience Research Australia, NSW)

POS-THU-030 13:30-14:30

LOW-INTENSITY REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION FACILITATES PLASTIC REORGANISATION OF ABNORMAL CORTICAL PROJECTIONS AND UPREGULATES BDNF

[†]**Makowiecki, Kalina***, Harvey, A. and Rodger, J. (*University Western Australia, WA)

POS-THU-031 12:30-13:30

INVOLVEMENT OF EXTRACELLULAR SIGNAL-REGULATED KINASE (ERK1/2)-P53-P21 AXIS IN MEDIATING NEURAL STEM/PROGENITOR CELL CYCLE ARREST IN CO-MORBID HIV-DRUG ABUSE EXPOSURE

[†]**Malik, Shaily***, Saha, R. and Seth, P. (*National Brain Research Center, INDIA)

POSTERS - THURSDAY 30 JANUARY 2014

POS-THU-032 13:30-14:30

CEREBRAL ENDOTHELIAL TIGHT JUNCTION STATUS HAS AN INFLUENCE ON THE ROLE AQUAPORIN-4 (AQP4) WATER CHANNELS PLAY IN CEREBRAL OEDEMA FOLLOWING BRAIN INJURY

[†]**Mander, Kimberley***, Burton, J., Turner, R., Thornton, E., Vink, R., Leppinus, H., Ziebell, J. and Yool, A. (*University of Adelaide, SA)

POS-THU-033 12:30-13:30

INHIBITION OF MOTOR NEURON DEATH IN-VITRO AND IN-VIVO BY AN INTRACELLULAR DOMAIN FRAGMENT OF P75 NEUROTROPHIN RECEPTOR

Matusica, Dusan*, Alfonsi, F., Turner, B., Butler, T., Skeldal, S., Underwood, C., Mangelsdorf, M. and Coulson E. (*University of Queensland, QLD)

POS-THU-034 13:30-14:30

CHARACTERISATION OF A NOVEL MODEL OF CHRONIC TRAUMATIC ENCEPHALOPATHY

[†]**McAteer, Kelly***, Corrigan, F., Thornton, E., van den Heuvel, C. and Vink, R. (*University of Adelaide, SA)

POS-THU-035 12:30-13:30

SYSTEMATIC REVIEW AND META-ANALYSIS OF ANTIDEPRESSANTS FOR THE TREATMENT OF ACUTE STROKE IN ANIMALS

McCann, Sarah*, Irvine, C., Sena, E., Currie, G., Egan K., Howells, D. and Macleod, M. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-THU-036 13:30-14:30

ROLE OF METALLOTHIONEINS IN NEUROPROTECTION AGAINST PARKINSON'S DISEASE

[†]**McLeary, Fleur***, Kinder, J., Chung, R. and Pountney, D. (*Griffith University, QLD)

POS-THU-037 12:30-13:30

CHARACTERISATION OF A SCHIZOPHRENIA-LIKE BEHAVIOURAL PHENOTYPE IN A RODENT MODEL OF MATERNAL IMMUNE ACTIVATION IN EARLY VERSES LATE GESTATION

[†]**Meehan, Crystal***, Frost, J., Harms, L., Hodgson, D., Schall, U., Todd, J., Zavitsanou, K., Shannon-Weickert, C. and Michie, P. (*University of Newcastle, NSW)

POSTERS - THURSDAY 30 JANUARY 2014

POS-THU-038 13:30-14:30

ROLE OF REGULATORY T CELLS IN DISEASE SEVERITY AND PAIN
HYPERSENSITIVITY IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS,
AN ANIMAL MODEL OF MULTIPLE SCLEROSIS

Moalem-Taylor, Gila*, Duffy, S. and Lees, J. (*University of New South Wales, NSW)

POS-THU-039 12:30-13:30

THE BETA-AMYLOID PROTEIN-INDUCED PHOSPHORYLATION OF CRMP-2 AT
Thr555 SITE INHIBITS NEURITE OUTGROWTH AND AXONAL TRANSPORT IN
ALZHEIMERS PATIENTS

Mokhtar, Sara*, Aui, P., Magee, K., Cram, D. and Petratos, S. (*Monash University, VIC)

POS-THU-040 13:30-14:30

MODULATING AVAILABILITY OF METABOLIC SUBSTRATES TO STUDY THE
EFFECTS OF MUTANT SOD1 IN VITRO

[†]**Mot, Alexandra***, Liddell, J., White, A. and Crouch, P. (*University of Melbourne, VIC)

POS-THU-041 12:30-13:30

GLUTATHIONE-S-TRANSFERASE OVEREXPRESSION IN THE NEURO2A CELL LINE
PROTECTS AGAINST HYDROGEN PEROXIDE INDUCED CELL DEATH

Muench, Gerald*, Laurenti, D., Maczurek, A., Stone, G., Ooi, L. and Gyengesi, E. (*University of Western Sydney, NSW)

POS-THU-042 13:30-14:30

IDENTIFICATION OF ANTI-INFLAMMATORY COMPOUNDS FROM CINNAMON

Muench, Gerald*, Gunawardena, D. and Gyengesi, E. (*University of Western Sydney, NSW)

POS-THU-043 12:30-13:30

TEMOZOLOMIDE AND BEVACIZUMAB, NOT CALCIUM OVERLOAD, INDUCE
MITOCHONDRIAL DYSFUNCTION IN HUMAN HIGH-GRADE BRAIN TUMOR

Nanegrungsunk, Danop*, Apaijai, N., Yarana, C., Limpastan, K., Watcharasaksilp, W., Vaniyapong, T., Chattipakorn, N. and Chattipakorn, S. (*Chiang Mai University, THAILAND)

POSTERS - THURSDAY 30 JANUARY 2014

POS-THU-044 13:30-14:30

INCREASED LIPID INFILTRATION INTO SKELETAL MUSCLE OF HSOD1G93A MICE

Ngo, Shyuan*, Giuliani, K., Lee, K., Fogarty, M., Chen, C., Steyn, F. and McCombe, P. (* University of Queensland, QLD)

POS-THU-045 12:30-13:30

VITAMIN D2-ENRICHED BUTTON MUSHROOM (AGARICUS BISPORUS)
EFFECT ON INFLAMMATION IN WILD TYPE AND APPSWE/PS1DE9
TRANSGENIC MICE

Niedermayer, Garry*, Bennett, L., Kersaitis, C., Macaulay, L., Muench, G., Nigro, J., Payne, M., Vallotton, P. and Bird, M. (*University of Western Sydney, NSW)

POS-THU-046 13:30-14:30

INCREASED REACTIVE OXYGEN SPECIES AND OXIDATION OF WHITE
MATTER PROTEINS IN CNS VULNERABLE TO SECONDARY DEGENERATION

O'Hare Doig, Ryan*, Bartlett, C., Hodgetts, S. and Fitzgerald, M. (*University of Western Australia, WA)

POS-THU-047 12:30-13:30

ACTIVATION OF AN ALTERNATIVE MITOPHAGIC PATHWAY MAY
COMPENSATE FOR A LOSS OF PARKIN-MEDIATED MITOPHAGY

Park, Jin-Sung*, Koentjoro, B. and Sue, C. (*University of Sydney, NSW)

POS-THU-048 13:30-14:30

MILD HYPOXIA CAN PREVENT INJURY-INDUCED INFLAMMATORY
PROCESSES IN THE NEONATAL RAT BRAIN

Parmar, Jasneet* and Jones, N. (*University of New South Wales, NSW)

POS-THU-049 12:30-13:30

EFFECT OF ACTIVE IMMUNISATION WITH MYELIN BASIC PROTEIN AND ITS
ALTERED PEPTIDE LIGAND ON CENTRAL NEUROPATHIC PAIN IN
UN-INJURED AND SPINAL CORD-INJURED LEWIS RATS

Perera, Chamini*, Lees, J., Duffy, S., Apostolopoulos, V. and Moalem-Taylor, G. (*University of New South Wales, Sydney, NSW)

POS-THU-050 13:30-14:30

MAINTENANCE AND ADAPTATION OF THE NEUROMUSCULAR SYNAPSE
UNDER AUTOANTIBODY CHALLENGE AND DRUG TREATMENT

Phillips, William*, Ghazanfari, N., Morsch, M., Tse, N., Reddel, S. and Toyka, K. (*University of Sydney, NSW)

[†]Indicates that presenter is a student

POSTERS - THURSDAY 30 JANUARY 2014

POS-THU-051 12:30-13:30

EVALUATING THE ROLE OF APP96-110 AS A NOVEL THERAPEUTIC AGENT FOLLOWING TRAUMATIC BRAIN INJURY

† **Plummer, Stephanie***, Thornton, E., Corrigan, F., Vink, R., Cappai R. and Van den Heuvel, C. (*University of Adelaide, SA)

POS-THU-052 13:30-14:30

BDNF TRANSCRIPTS ARE UPREGULATED IN THE FRONTAL CORTEX BY TESTOSTERONE REMOVAL DURING ADOLESCENCE IN MALE MACAQUES AND RATS

† **Allen, Katherine***, Purves-Tyson, T., Fung, S., Rothmond, D. and Shannon Weickert, C. (*Neuroscience Research Australia, NSW)

POS-THU-053 12:30-13:30

NEUROINFLAMMATION IN MULTIPLE SYSTEM ATROPHY IS INFLUENCED BY PATHOLOGICAL ALPHA-SYNUCLEIN AGGREGATES

† **Radford, Rowan***, Rcom-H'cheo-Gauthier, A., Wong, M. Eaton, E., Quilty M., Meedeniya, A., Vickers, J., Gai, W., Guilemin, G., Norazit, A., West, A., Dickson, T., Chung, R. and Pountney, D. (*Flinders University, SA)

POS-THU-054 13:30-14:30

CENTRAL SEROTONERGIC NEURON DEFICIENCY IN A MOUSE MODEL OF ZELLWEGER SYNDROME

† **Rahim, Rania Sadia***, Meedeniya, A. and Crane, D. (*Griffith University, QLD)

POS-THU-055 12:30-13:30

DOES EXERCISE TRAINING AFTER SPINAL CORD INJURY INFLUENCE THE PHYSIOLOGICAL PROPERTIES OF SPINAL INTERNEURONS?

Rank, Michelle*, Callister, R. and Callister, R. (*University of Newcastle, NSW)

POS-THU-056 13:30-14:30

EFFECTS OF HIGH AND LOW RADIATION DOSE ON GENE EXPRESSION CHANGES IN CULTURED MURINE BRAIN ENDOTHELIAL CELLS

† **Raoufi-Rad, Newsha***, Gupta, K. and Stoodley, M (* Macquarie University, NSW)

POS-THU-057 12:30-13:30

REDUCED WHOLE BRAIN VOLUME AND REGIONAL SPECIFIC ARCHITECTURAL CHANGES IN A MOUSE MODEL OF DRAVET SYNDROME

Richards, Kay*, Retchford, A., Reid, C. and Petrou, S. (*Florey Institute of Neuroscience and Mental Health, VIC)

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POS-THU-058 13:30-14:30

HARMFUL EFFECTS OF 'FAST FOODS' ON ENTERIC NEURONS

Rivera, Leni*, Leung, C, Pustovit, R. and Furness, J. (*University of Melbourne, VIC)

POS-THU-059 12:30-13:30

EXPLORING THE MECHANISMS FOR STRUCTURAL REORGANISATION OF CORTICAL CIRCUITS FOLLOWING RTMS: REGULATION OF THE EXPRESSION OF SEROTONIN RECEPTOR AND TRANSPORTER GENES

Rodger, Jennifer*, and Penrose-Menz, M. (*University of Western Australia, WA)

POS-THU-060 13:30-14:30

ISCHAEMIA INDUCED CELL DEATH IS SELECTIVELY MEDIATED THROUGH CaMKII PHOSPHORYLATION AT T253

Rostas, John*, Skelding, K., Hoffman, A. and Dickson, P. (*University of Newcastle, NSW)

POS-THU-061 12:30-13:30

DEPLETION OF TRIM32 PROTECTS MICE FROM ANXIETY-AND DEPRESSION-LIKE BEHAVIORS UNDER MILD STRESS

†Ruan, Chunsheng*, Wang, S., Xiao, Z. and Zhou, X. (*Kunming Medical University, CHINA)

POS-THU-062 13:30-14:30

COMBINED MAGNESIUM POLYETHYLENE GLYCOL AS A NOVEL THERAPY IN TRAUMATIC BRAIN INJURY

†Sabiiti Busingye, Diana*, Turner, R. and Vink, W. (*University of Adelaide, SA)

POS-THU-063 12:30-13:30

MITOCHONDRIAL CONTRIBUTIONS TO NEURONAL AUTOPHAGY: LINKS TO ENERGETICS AND MITOPHAGY?

†Shin, Yea Seul*, Ryan, J., Britto, J., Higgins, G., Nagley, P. and Beart, P. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-THU-064 13:30-14:30

MODELLING ALZHEIMER'S DISEASE: TRANSGENIC EXPRESSION OF HUMAN A β 1-42 IN CAENORHABDITIS ELEGANS NEURONS

†Sirwani, Neha*, Grant, W., and McColl, G (*La Trobe University, VIC)

† Indicates that presenter is a student

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POS-THU-065 12:30-13:30

SYSTEMATIC REVIEW AND META-ANALYSIS OF THERAPEUTIC HYPOTHERMIA IN ANIMAL MODELS OF SPINAL CORD INJURY

Skeers, Peta*, Batchelor, P., Antonic, A., Wills, T., Howells, D., Macleod, M. and Sena, E. (*University of Melbourne, VIC)

POS-THU-066 13:30-14:30

INCREASED F2-ISOPROSTANES IN PARKINSON'S DISEASE HUMAN BRAIN

Spiro, Adena*, Abbott, S., Jenner, A., Halliday, G. and Garner, B. (*University of Wollongong, NSW)

POS-THU-067 12:30-13:30

CHARACTERISATION OF TAUOPATHY IN THE PONTO-MEDULLARY BRAINSTEM NUCLEI OF AGED TAU-P301L MICE

Stanic, Davor*, Bautista, T. and Dutschmann, M. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-THU-068 13:30-14:30

INVESTIGATING SPTLC1 MUTATIONS ON PROTEIN PROFILES IN HSN-I PATIENT LYMPHOBLASTS

Stimpson, Scott*, Coorssen, J. and Myers, S. (*University of Western Sydney, NSW)

POS-THU-069 12:30-13:30

CELL PROLIFERATION IN ALCOHOL-RELATED BRAIN DAMAGE

Sutherland, Greg*, Dennis, C., Suh, L. and Kril, J. (*University of Sydney, NSW)

POS-THU-070 13:30-14:30

EPHRIN-A2 SIGNALING PROMOTES NEURONAL SURVIVAL AFTER FOCAL ISCHEMIA IN THE NONHUMAN PRIMATE

Teo, Leon* and Bourne, J. (*Monash University, VIC)

POS-THU-071 12:30-13:30

INVESTIGATION OF WHITE MATTER NEURONS IN A RODENT MODEL OF MATERNAL IMMUNE ACTIVATION - IMPLICATIONS FOR SCHIZOPHRENIA

Tooney, Paul*, Duchatel, R., Jobling, P., Harms, L. and Hodgson, D.
*University of Newcastle, NSW)

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POS-THU-072 13:30-14:30

A MULTIFACETED PEPTIDE THAT BINDS MONOMERIC AND AGGREGATED BETA-AMYLOID AND INHIBITS THE FORMATION OF NEUROTOXIC OLIGOMERS

Verdile, Giuseppe*, Barr, R., Wijaya, L., Morrici, M., Taddei, K., Gupta, V., Nicolazzo, J., Fraser, P. and Martins, R. (*Curtin University, WA)

POS-THU-073 12:30-13:30

GROWTH FACTORS ARE ALTERED IN NEUROGENIC REGIONS OF THE PARKINSON'S DISEASE BRAIN

†Virachit, Sophie*, Werry, E., Galli, E., Rappou, E., Pulkila, P., Saarma, M., Hailliday, G., Shannon Weickert, C. and Double, K. (*Neuroscience Research Australia, NSW)

POS-THU-074 13:30-14:30

TAU POSITIVE NEURONS SHOW A MARKED MITOCHONDRIAL LOSS IN ALZHEIMER'S DISEASE

†Wee, Yun* and Power, J. (*Flinders University, SA)

POS-THU-075 12:30-13:30

MICROTUBULE DYNAMICS IN HEREDITARY SPASTIC PARAPLEGIA-PATIENT DERIVED OLFACTORY STEM CELLS

†Weyers, Simon*, Yongjun, F., Crane, D., Sue, C. and Mackay-Smith, A. (*Griffith University, QLD)

POS-THU-076 13:30-14:30

A NOVEL NEUROTROPHIN-BASED STRATEGY FOR TREATING DEMYELINATING DISEASES

Xiao, Junhua*, Wong, A., Tran, G., Hosgkinson, S., Wood, R., Hughes, R., Guiffrida, L. and Kilpatrick T. (*University of Melbourne, VIC)

POS-THU-077 12:30-13:30

MINOCYCLINE HAS LIMITED EFFECTS ON EARLEY MICROGLIAL ACTIVATION FOLLOWING PHOTOTHROMBOTIC STROKE IN RTS

Yew, Wai Ping*, Jayaseelan, J., Djukic, N., Muyderman, H. and Sims, N. (*Flinders University, SA)

[†]Indicates that presenter is a student

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POS-THU-078 13:30-14:30

CHARACTERING NOVEL ALTERNATIVELY SPLICED ISOFORMS OF THE EPHA4 GENE

[†]**Zhao, Jing***, Narayanan, R., Mangelsdorf, M., Boyd, A. and Bartlett, P.
(University of Queensland, QLD)

POS-THU-079 12:30-13:30

ALZHEIMER'S DISEASE-RELATED LYSOSOME DYSFUNCTION DISRUPTS NEURONAL COBALAMIN TRANSPORT IN VITRO AND IN VIVO

[†]**Zhao, Hua***, Li, H., Ruberu, K. and Garner, B. (*University of Wollongong, NSW)

POS-THU-080 13:30-14:30

SODIUM SELENATE REDUCES NEURODEGENERATION AND SPONTANEOUS SEIZURES IN A POST- STATUS EPILEPTICUS RAT MODEL OF TEMPORAL LOBE EPILEPSY

[†]**Zheng, Ping***, Shultz, S., Wright, D., Johnston L., Hovens, C., Jones, N. and O'Brien, T. (*University of Melbourne, VIC)

POS-THU-081 12:30-13:30

INTERACTION BETWEEN ABETA, P75NTR AND APP FORMS A POSITIVE FEED-FORWARD LOOP PROMOTING AMYLOID BETA GENERATION

Zhou, Xin-Fu*, Saadipour, K., Smith, K., Yang, M., Wang, Y., Zhong, J. and Wang, Y. (*University of South Australia, SA)

POS-THU-082 13:30-14:30

BRAINSTEM CHANGES AFFECTED BY 670 NM PHOTOBIMODULATION TREATMENT FOLLOWING T10 HEMI-CONTUSION SPINAL CORD INJURY

[†]**Zhu, Shuyu***, Hu, D. and Potas, J. (*Australian National University, ACT)

Cognition, Learning & Behaviour

Posters 083 - 115

POS-THU-083 12:30-13:30

ITSN1 AND CELL SIGNALLING PATHWAYS

[†]**Malakooti, Nakisa***, Pritchard, M., Adlard, P. and Finkelstein, D. (*University of Melbourne, VIC)

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POS-THU-084 13:30-14:30

THE FUNCTIONAL ROLE OF THE PREFRONTAL CORTEX IN CONFLICT-INDUCED BEHAVIOURAL ADJUSTMENT

Mansouri, Farshad*, Buckley, M. and Tanaka, K. (*Monash University, VIC)

POS-THU-085 12:30-13:30

THE ENTRAINMENT IN RHYTHMICAL COORDINATION BETWEEN WHOLE-BODY MOVEMENT AND SELF-VOCALIZATION

[†]**Miyata, Kohei*** and Kudo, K. (*University of Tokyo, JAPAN)

POS-THU-086 13:30-14:30

CHRONIC ADMINISTRATION OF METHYLPHENIDATE IN RATS REDUCES LONG-TERM POTENTIATION IN THE HIPPOCAMPUS, BUT FACILITATES IT IN THE PREFRONTAL CORTEX

Morales, Bernardo*, Carreño M., Contreras D., Hernandez A., Burgos H², Zeise M. (University of Santiago of Chile, CHILE)

POS-THU-087 12:30-13:30

EFFECTS OF LIMITED NESTING MATERIAL ON MATERNAL BEHAVIOUR

Morris, Margaret*, Maniam, J. and Antoniadis, C. (*University of New South Wales, NSW)

POS-THU-088 13:30-14:30

MATERNAL OBESITY: EFFECT OF EXERCISE DURING PREGNANCY ON BEHAVIOUR AND HIPPOCAMPAL GENE EXPRESSION IN MALE RAT OFFSPRING

Morris, Margaret*, Raipuria, M., Bahari, H. and Maniam, J. (*University of New South Wales, NSW)

POS-THU-089 12:30-13:30

EFFECTS OF A CLOCK MUTATION ON COCAINE-INDUCED LOCOMOTION AND COCAINE SELF-ADMINISTRATION IN MICE

Nakahara, Daiichiro*, Murakami, G., Edamura, M., Meng, H. and Okamura, H. (*Hamamatsu University School of Medicine, JAPAN)

POS-THU-090 13:30-14:30

EFFECT OF HIGH FAT DIET CONSUMPTION ON MOTIVATION, PAVLOVIAN AND INSTRUMENTAL CONDITIONING IN RATS

[†]**Nguyen, Jason***, Killcross, S., and Jenkins, T. (*RMIT University, VIC)

[†]Indicates that presenter is a student

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POS-THU-091 12:30-13:30

ENVIRONMENTAL ENRICHMENT INFLUENCES BOTH DEVELOPMENT AND FUNCTION OF STRIATAL CIRCUITRY WITHIN THE MOUSE

[†]**O'Connor, Angela***, Leamey, C., and Sawatari, A. (*University of Sydney, NSW)

POS-THU-092 13:30-14:30

AMPHETAMINE ALTERS THE CHOICE PREFERENCES OF DVD-DEFICIENT MALE RATS ON A RODENT GAMBLING TASK

[†]**Peak, James***, Turner, K. and Burne, T. (*University of Queensland, QLD)

POS-THU-093 12:30-13:30

PARTICIPATION OF THE L-ARGININE-NITRIC OXIDE-cGMP-PKC-K+ATP CHANNEL SIGNALLING PATHWAY IN ZERUMBONE-INDUCED ANTINOCICEPTION

Perimal, Enoch Kumar*, Solaiman, M., Mohamad, A., Akira, A., Israf, D. and Bhatartham, H. (*Universiti Putra Malaysia, MALAYSIA)

POS-THU-094 13:30-14:30

MGLU5 RECEPTORS IN EXTINCTION OF COCAINE-ASSOCIATED CUES

Perry, Christina*, Kim, J., Zbukvic I. and Lawrence, A. (*Florey Department of Neuroscience and Mental Health, VIC)

POS-THU-095 12:30-13:30

DIETARY INDUCED OBESITY DISRUPTS HIPPOCAMPALLY ENCODED TRACE FEAR MEMORIES

Reichelt, Amy*, Westbrook, F. and Morris, M. (*University of New South Wales, NSW)

POS-THU-096 13:30-14:30

CLAUSTRUM PROJECTIONS TO THE PREFRONTAL CORTEX IN THE CEBUS MONKEY (CEBUS APELLA)

Reser, David*, Richardson, K., de Oliveira Montibeller, M., Zhao, S., Chan, J., Soares, J., Gattass, R. and Rosa, M. (*Monash University, VIC)

POS-THU-097 12:30-13:30

PANAX GINSENG ATTENUATES OXIDATIVE-NITROSATIVE STRESS, INFLAMMATORY CASCADE AND COGNITIVE IMPAIRMENT IN RATS SUBJECTED TO MILD TRAUMATIC BRAIN INJURY: AN EVIDENCE OF NITRIC OXIDE SIGNALING

[†]**Rinwa, Puneet*** and Kumar, A. (*Panjab University, INDIA)

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POS-THU-098 13:30-14:30

MELANOCORTIN 3/4 RECEPTOR AGONIST REDUCES FOOD INTAKE BY ACTING ON VAGAL AFFERENT ENDINGS IN THE NUCLEUS OF THE SOLITARY TRACT

Ritter, Robert* Campos, C. (*Washington State University, USA)

POS-THU-099 12:30-13:30

APOD GENE DELETION EXACERBATES THE PATHOLOGICAL PHENOTYPE OF APP/PS1 ALZHEIMER'S DISEASE MICE

Ruberu, Kalani*, Li, H., Karl, T. and Garner, B. (*University of Wollongong, NSW)

POS-THU-100 13:30-14:30

CAFFEINE MAINTAINS BASAL SYNAPTIC STRENGTH DURING 48H OF TOTAL SLEEP DEPRIVATION IN RAT HIPPOCAMPUS

[†]Sahu, Surajit*, Wadhwa, M., Deep, S., Thakur, S., Nanda, S. and Panjwani, U. (*DIPAS, INDIA)

POS-THU-101 12:30-13:30

EARLY GESTATIONAL EXPOSURE TO MODERATE CONCENTRATIONS OF ETHANOL LEADS TO AN AGE-DEPENDENT DECLINE IN ATTENTIONAL PROCESSING IN C57BL/6J MICE

[†]Sanchez Vega, Michelle*, Chong, S. and Burne, T. (*University of Queensland, QLD)

POS-THU-102 13:30-14:30

EFFECTS OF SHORT-TERM COGNITIVE ENRICHMENT ON COGNITION, ANXIETY- AND DEPRESSION-LIKE BEHAVIOUR

[†]Singhal, Gaurav*, Jaehne, E., Corrigan, F. and Baune, B. (*University of Adelaide, SA)

POS-THU-103 12:30-13:30

THE CLAUSTRUM'S PROPOSED ROLE IN CONSCIOUSNESS IS SUPPORTED BY THE EFFECT AND TARGET LOCALIZATION OF SALVIA DIVINORUM

Stiefel, Klaus*, Merrifield, A. and Holcombe, A. (*University of Western Sydney, NSW)

POS-THU-104 13:30-14:30

PHARMACOLOGICAL INVESTIGATION OF THE ROLE OF mGlu5 AND NMDA RECEPTOR ON CONDITIONED FEAR

[†]Tan, Shawn*, Handford, C., Lawrence, A. and Kim, J. (*Florey Institute of Neuroscience and Mental Health, VIC)

[†]Indicates that presenter is a student

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POS-THU-105 12:30-13:30

INVESTIGATING STEM CELL BASED THERAPY IN AN IMMUNOTOXIN MOUSE MODEL OF ALZHEIMER'S DISEASE

[†]**Tiwari, Durgesh***, Haynes, J., Nicolazzo, J., Pouton, C. and Short, J. (*Monash Institute of Pharmaceutical Sciences, VIC)

POS-THU-106 13:30-14:30

LOCALIZING CATEGORY-SELECTIVE BOLD SIGNALS IN FMRI USING SWIFT

Tsuchiya, Naotsug*, Koenig-Robert, R. and VanRullen, R. (*Monash University, VIC)

POS-THU-107 12:30-13:30

AMPHETAMINE AND SCOPOLAMINE IMPAIR PERFORMANCE OF DVD-DEFICIENT RATS ON A CONTINUOUS DETECTION TASK

[†]**Turner, Karly***, McGrath, J. and Burne, T. (*University of Queensland, QLD)

POS-THU-108 13:30-14:30

NEUROCOGNITIVE DISTURBANCES ASSOCIATED WITH ACUTE INFECTIOUS MONONUCLEOSIS, ROSS RIVER FEVER AND Q FEVER: A PRELIMINARY INVESTIGATION OF INFLAMMATORY AND GENETIC CORRELATES

Vollmer-Conna, Ute*, Cvejic, E., Lemon, J., Hickie, I. and Lloyd, A. (*University of New South Wales, NSW)

POS-THU-109 12:30-13:30

THE EFFECT OF ADULT ENRICHMENT ON GOAL-ORIENTED PROBLEM SOLVING

[†]**Wakulicz, Anthony***, O'Connor, A., Leamy, C. and Sawatari, A. (*University of Sydney, NSW)

POS-THU-110 13:30-14:30

THE STRESS-REWARD INTERFACE: ROLE FOR RELAXIN-3/RXFP3 SIGNALLING IN STRESS-INDUCED ALCOHOL CONSUMPTION AND SUCROSE-SEEKING IN MICE

[†]**Walker, Andrew***, Chua, B., Smith, C., Gundlach, A. and Lawrence, A. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-THU-111 12:30-13:30

THE RELATIONSHIP BETWEEN SINGLE NUCLEOTIDE POLYMORPHISMS WITHIN THE NGFR GENE AND SPORADIC ALZHEIMER'S DISEASE IN A CHINESE HAN POPULATION

Wang, Yan-Jiang*, Zeng, F., Yao, X., Yi, X., Cao, H., Wang, X., Jiao, S., Wang, Q., Zhou, H. and Zhou, X. (*Daping Hospital and Institute of Field Surgery, CHINA)

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POS-THU-112 13:30-14:30

HIGH FREQUENCY (>25 Hz) PEAKS IN SCALP ELECTRICAL RECORDINGS

Willoughby, John*, Whitham, E., Fitzgibbon, S., Grummett, T., DeLosAngeles, D., Lewis, T. and Pope, K. (*Flinders University, SA)

POS-THU-113 12:30-13:30

AUDITORY STIMULATION MODULATES AMYGDALA NETWORK DYNAMICS

Windels, Francois*, Stratton, P., and Sah, P. (*University of Queensland, QLD)

POS-THU-115 12:30-13:30

ARIPIRAZOLE REDUCES CUE-INDUCED REINSTATEMENT OF COCAINE SEEKING BY ENHANCING CUE EXTINCTION LEARNING IN ADOLESCENT RATS

[†]**Zbukvic, Isabel***, Perry, C., Lawrence, A. and Kim, J. (*Florey Institute of Neuroscience and Mental Health, VIC)

Development & Regeneration

Posters 116 - 132

POS-THU-116 13:30-14:30

MANIPULATION OF AXON GUIDANCE CUE, EPHRINA5, AFFECTS THE INTEGRATION OF DOPAMINERGIC NEURAL GRAFTS IN AN ANIMAL MODEL OF PARKINSON'S DISEASE

[†]**Kauhausen, Jessica***, Rodger, J., Thompson, L. and Parish, C. (*Florey Institute of Neuroscience & Mental Health)

POS-THU-117 12:30-13:30

THE FIBROTIC SCAR IS AN IMPEDIMENT FOR AXONAL REGENERATION AFTER TRAUMATIC BRAIN INJURY

Kawano, Hitoshi*, Kimura-Kuroda, J., Komuta, H., Li, H. and Takeuchi, K. (*Tokyo Metropolitan Institute of Medical Science, JAPAN)

[†]Indicates that presenter is a student

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POS-THU-118 13:30-14:30

COMPLEX ROLES FOR TEN-M3 IN THE GENERATION OF THALAMOSTRIATAL CIRCUITRY

Leameu, Catherine*, Tran, H. and Sawatari, A. (*University of Sydney, NSW)

POS-THU-119 12:30-13:30

THE AXON GUIDANCE RECEPTOR NEOGENIN REGULATES CADHERIN ENDOCYTOSIS AND ADHEREN JUNCTION ASSEMBLY

[†]**Lee, Natalie***, Nourse, C., Cox, H. and Cooper, H. (*University of Queensland, QLD)

POS-THU-120 13:30-14:30

MODULATING THE IMMUNE RESPONSE TO IMPROVE FUNCTIONAL RECOVERY, TISSUE SPARING AND DONOR CELL SURVIVAL FOLLOWING SPINAL CORD INJURY

[†]**Lovett, Sarah***, Harvey, A., Hodgetts, S. and Plant, G. (*University of Western Australia, WA)

POS-THU-121 12:30-13:30

QUANTITATIVE FLOW CYTOMETRIC ANALYSIS OF RAT EMBRYONIC DOPAMINE PRECURSORS AND MATURE NEURONS

Luan, Wei*, Alexander, S. and Eyles, D. (*University of Queensland, QLD)

POS-THU-122 13:30-14:30

DEFINING THE REGULATION OF AMYLOID PRECURSOR PROTEIN N-TERMINAL FRAGMENT GENERATION

[†]**Luu, Luan** (University of Melbourne, VIC)

POS-THU-123 12:30-13:30

NEURON-SPECIFIC ALTERNATIVE SPLICING OF DSCAM2 IS FUNCTIONALLY REQUIRED FOR DROSOPHILA VISUAL SYSTEM DEVELOPMENT

Millard, Sean*, Lah, G. and Li, J. (*University of Queensland, QLD)

POS-THU-124 13:30-14:30

TIMING OF SUB-CHRONIC ANTIPSYCHOTIC EXPOSURE DIFFERENTIALLY AFFECTS BRAIN FUNCTION

[†]**Moe, Aung Aung Kywe***, Kurniawan, N., Alexander, S., Burne, T. and Eyles, D. (*University of Queensland), QLD)

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POS-THU-125 12:30-13:30

ANALYSING THE BIOLOGICAL FUNCTION OF PS2V: AN ABERRANT SPLICING PHENOMENON OR EVOLUTIONARILY CONSERVED MECHANISM?

[†]**Moussavi Nik, Seyyed Hani***, Newman, M., Wilson, L., Ebrahimie, E., Verdile, G., Chapman, G., Martins, R. and Lardelli, M. (*University of Adelaide, SA)

POS-THU-126 13:30-14:30

EPH/ EPHRIN SIGNALLING INFLUENCES THE COMPLEX SPATIOTEMPORAL DEVELOPMENT OF THE NONHUMAN PRIMATE VISUAL CORTEX

Mundinano, Inaki-Carril*, Kwan, W. and Bourne, J. (*Monash University, VIC)

POS-THU-127 12:30-13:30

OLIGODENDROGLIAL DELETION OF TrkB AT DIFFERENT STAGES OF DEVELOPMENT EXERTS DISTINCT INFLUENCES UPON CNS MYELINATION

Murray, Simon*, Ferner, A., Wong, A., Xiao, J., Peckham, H., Giuffrida, L., Wood, R. and Kilpatrick, T. (*University of Melbourne, VIC)

POS-THU-128 13:30-14:30

NFIX REGULATES BOTH PROLIFERATION AND MIGRATION WITHIN THE SUBVENTRICULAR ZONE OF THE POSTNATAL BRAIN

Piper, Michael*, Heng, E., Gronostajski, R. and Richards, L. (*University of Queensland, QLD)

POS-THU-129 12:30-13:30

EFFECTS OF ENRICHMENT ON PNN FORMATION AND PV+ EXPRESSION IN DORSAL AND VENTRAL HIPPOCAMPUS

[†]**Rahman, Tasnim***, O'Connor, A., Leamey, C. and Sawatari, A. (*University of Sydney, NSW)

POS-THU-130 13:30-14:30

HOW DOES EARLY POSTNATAL ACTIVITY INFLUENCE CONTRALATERAL TARGETING OF CALLOSAL AXONS?

Suarez, Rodrigo*, Fenlon, L., Marek, R., Avitan, L., Sah, P., Goodhill, G., Richards and L. (*University of Queensland, QLD)

POS-THU-131 12:30-13:30

BILATERAL CONNECTIONS IN THE MARSUPIAL BRAIN ARE SPATIALLY SEGREGATED ACCORDING TO THEIR PLACE OF ORIGIN

Suarez, Rodrigo*, Morcom, L., Kurniawan, N. and Richards, L. (*University of Queensland, QLD)

[†]Indicates that presenter is a student

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POS-THU-132 13:30-14:30

REGULATION OF TROPOMYOSIN RELATED KINASE-B RECEPTOR (TRKB) BY SUPPRESSOR OF CYTOKINE SIGNALLING (SOCS2)

[†]**Zamani, Akram***, Turnley, A. and Murray, S. (*University of Melbourne, VIC)

Excitability & Synaptic Transmission

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POS-THU-133 12:30-13:30

BIOPHYSICAL ANALYSIS OF SODIUM-POTASSIUM ATPASE MUTATIONS IDENTIFIED IN PATIENTS WITH ALTERNATING HEMIPLEGIA OF CHILDHOOD

[†]**Li, Melody***, Jazayeri, D., Heinzen, E., Goldstein, D. and Petrou, S. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-THU-134 13:30-14:30

SEGREGATED A AND C-FIBER INFORMATION PATHWAYS THROUGH THE SOLITARY TRACT NUCLEUS

McDougall, Stuart* and Guo, H. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-THU-135 12:30-13:30

A POSTSYNAPTIC CONTRIBUTION TO SHORT-TERM SYNAPTIC PLASTICITY IN PIRIFORM CORTEX

[†]**Micallef, Andrew*** and Stuart, G. (*Australian National University, ACT)

POS-THU-136 13:30-14:30

METHYLPHENIDATE AMPLIFIES LONG-TERM POTENTIATION IN CA1 OF THE RAT HIPPOCAMPUS THROUGH $\hat{I}^2$ -ADRENERGIC AND D1/D5 RECEPTORS

Morales, Bernardo*, Contreras D., Carreño M., Carvallo C. and Zeise M. (*University of Santiago of Chile, CHILE)

POS-THU-137 12:30-13:30

THE MAKING OF THE NEUROMOTOR SYSTEM: THE ROLE PLAYED BY GLYCINERGIC CONNECTIONS ONTO DEVELOPING MOTOR NEURONS

Noakes, Peter*, Fogarty, M., Kanjhan, R. and Bellingham, M. (*University of Queensland, QLD)

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POS-THU-138 13:30-14:30

BIOGENESIS, COMPOSITION AND MORPHOLOGY OF SECRETORY VESICLES IN THE LYSOSOMAL STORAGE DISORDER MUCOPOLYSACCHARIDOSIS IIIA

Parkinson-Lawrence, Emma*, Hocking, K., Brooks, D. and Keating, D.
(*University of South Australia, SA)

POS-THU-139 12:30-13:30

INVESTIGATION OF THE INTRACELLULAR CALCIUM SIGNALING CASCADES MEDIATED BY NCAM2 DURING NEURONAL DIFFERENTIATION USING GENETICALLY ENCODED CALCIUM REPORTERS

[†]Sheng, Lifu*, Leshchyns'ka, I. and Sytnyk, V. (*University of New South Wales, NSW)

POS-THU-140 13:30-14:30

DIFFERENTIAL INHIBITORY INPUT TO CALRETININ EXPRESSING NEURONS IN THE MOUSE SUPERFICIAL DORSAL HORN

[†]Smith, Kelly*, Madden, J., Dickinson, S., Boyle, K., Hughes, D., Callister, R., Jobling, P. and Graham, B. (*University of Newcastle, NSW)

POS-THU-141 12:30-13:30

ROLE OF TLR2/4 RECEPTORS IN MORPHINE-INDUCED INHIBITION OF MURINE DISTAL COLON

Staikopoulos, Vicky*, Beckett, E. and Hutchinson, M. (*University of Adelaide, SA)

POS-THU-142 13:30-14:30

MOLECULAR MECHANISMS OF ABNORMAL NEUROTRANSMISSION INDUCED BY DISRUPTION OF NCAM-MEDIATED SYNAPTIC ADHESION IN CNS SYNAPSES

Sytnyk, Vladimir* and Leshchyns'ka, I. (*University of New South Wales, NSW)

POS-THU-143 12:30-13:30

EPHA4 MODULATES HIPPOCAMPAL NEUROGENESIS AND SYNAPTIC PLASTICITY IN THE ADULT MOUSE

Taylor, Chanel*, Newcombe, E., Turpin, F., Boyd, A., Sah, P. and Bartlett, P.
(*University of Queensland, QLD)

POS-THU-144 13:30-14:30

SPONTANEOUS CA²⁺ TRANSIENTS IN THE NERVE TERMINAL OF NEOCORTICAL PYRAMIDAL NEURONS

[†]Tran, Le Thuy Van* and Stricker, C. (*Australian National University, ACT)

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POS-THU-145 12:30-13:30

EFFECTS OF ENDOGENOUS OPIOIDS ON THE ACTIVITY OF INTERCALATED NEURONS OF THE AMYGDALA: IMPLICATIONS FOR ANXIETY DISORDERS

Winters, Bryony* and Bagley, C. (*University of Sydney, NSW)

Glia

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POS-THU-146 13:30-14:30

INVESTIGATING THE ROLE OF TLR4 IN THE SYNERGISTIC INTERACTION OF ETHANOL AND BENZODIAZEPINE

[†]**Lagiseti, Rajini***, Corrigan, F. and Hutchinson, M. (*University of Adelaide, SA)

POS-THU-147 12:30-13:30

MONOCARBOXYLATE TRANSPORTER 8 IS EXPRESSED ON OLIGODENDROCYTE PROGENITORS DERIVED FROM HUMAN EMBRYONIC STEM CELLS

[†]**Lee, Jae Young***, Kim, M., Stanley, E., Elefanty, A. and Petratos, S. (*Monash University, VIC)

POS-THU-148 13:30-14:30

THE ROLE OF OESTROGENIC INNATE IMMUNE PRIMING IN EXACERBATED FEMALE PAIN

[†]**Nicotra, Lauren***, Watkins, L., Tuke, J., Kwok, Y., Rolan, R. and Hutchinson, M. (*University of Adelaide, SA)

POS-THU-149 12:30-13:30

FYN KINASE IS NECESSARY FOR BDNF TO PROMOTE OLIGODENDROCYTE MYELINATION IN VITRO

[†]**Peckham, Haley***, Giuffrida, L., Wong, A., Ferner, A., Kilpatrick, T., Murray, S. and Xiao, J. (*University of Melbourne, VIC)

POS-THU-150 13:30-14:30

HYPERMETHYLATION OF MICRORNA-16 IS TUMOR SUPPRESSIVE IN GLIOMAS AND GLIOMA STEM CELLS

[†]**Shan, Zheng***, Liu, F., Liu, X., Li, L. and He, J. (*University of South Australia SA)

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POS-THU-151 12:30-13:30

NON-STEREOSELECTIVE OPIOID BINDING IN THE MOUSE BRAIN

[†]**Thomas, Jacob***, Somogyi, A. and Hutchinson, M. (*University of Adelaide, SA)

POS-THU-152 13:30-14:30

MACROPOROUS FORMATION VIA P2X7 AND P2X4 RECEPTORS IS BLOCKED BY MINOCYCLINE IN PRIMARY MICROGLIA AND A HETEROLOGOUS EXPRESSION SYSTEM

[†]**Watson, Jack***, Stokes, L., Horton, A., Stebbing, M. (*RMIT University, VIC)

POS-THU-153 12:30-13:30

HIPPOCAMPAL GLIA ARE AFFECTED MORE THAN NEURONS IN THE VERY ELDERLY WITHOUT SIGNIFICANT NEUROPATHOLOGIES

[†]**Yang, Yue***, Shepherd, C. and Halliday, G. (*Neuroscience Research Australia, NSW)

Motor Systems

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POS-THU-154 13:30-14:30

INVESTIGATION OF THE INVOLVEMENT OF CALCIUM REGULATION IN THE UNILATERAL ROTENONE-LESIONED MOUSE MODEL OF PARKINSON'S DISEASE

[†]**Rcom-H'cheo-Gauthier, Alexandre***, Meedeniya, A. and Pountney, D. (*Griffith University, QLD)

POS-THU-155 12:30-13:30

p75NTR EXTRACELLULAR DOMAIN AS A BIOMARKER IN MOTOR NEURON DISEASE

[†]**Shepherd, Stephanie***, Schultz, D., Chataway, T., Rush, R. and Rogers, M. (*Flinders University, SA)

POS-THU-156 13:30-14:30

CHARACTERISATION AND TARGETING OF P75NTR EXPRESSING MOTOR NEURONS IN SOD1G93A MICE

[†]**Smith, Kevin***, Rush, R. and Rogers, M. (*Flinders University, SA)

[†]Indicates that presenter is a student

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POS-THU-157 12:30-13:30

ENHANCEMENT OF REACHING ABILITY AND REDUCED CORTICAL ATROPHY FOLLOWING TRANSPLANTATION OF NEURAL PROGENITORS GENERATED FROM HUMAN EMBRYONIC STEM CELLS IN A RAT MODEL OF CORTICAL ISCHAEMIA

[†]**Somaa, Fahad***, Niclis, J., Dottori, M., Parish, C. and Thompson, L. (*Florey Neuroscience Institute, VIC)

POS-THU-158 13:30-14:30

CELLULAR PATHOGENIC MECHANISMS INDUCED BY FUSED IN SARCOMA IN AMYOTROPHIC LATERAL SCLEROSIS

[†]**Sultana, Jessica***, Atkin, J., Farg, M., Al Helwani, N., Billa, N. and Walker, A. (*La Trobe University, VIC)

POS-THU-159 12:30-13:30

OPTINEURIN AND MYOSIN VI ASSOCIATED CELLULAR TRAFFICKING DEFECTS IN AMYOTROPHIC LATERAL SCLEROSIS

[†]**Sundaramoorthy, Vinod***, Walker, A., Tan V., Farg, M., Guillemin. G. and Atkin, J. (*La Trobe University, VIC)

POS-THU-160 13:30-14:30

MOTOR END PLATE (MEP) TARGETING INCREASES UPTAKE AND ADENOVIRAL TRANSDUCTION AT SPINAL CORD MOTOR NEURONS, DORSAL ROOT GANGLIA (DRG) AND MYOFIBRES

[†]**Tosolini, Andrew***, Mohan, R. and Morris, R. (*University of New South Wales, NSW)

POS-THU-161 12:30-13:30

NEURAL MECHANISMS OF PERISTALSIS IN THE ISOLATED RABBIT COLON: A NEUROMECHANICAL LOOP HYPOTHESIS

Wiklendt, Lukasz*, Dinning, P., Spencer, N., Brookes, S. and Costa, M. (*Flinders University, SA)

New Techniques in Neuroscience

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POS-THU-162 13:30-14:30

COMPARISON OF NEURO-DIFFERENTIATION PROTOCOLS FOR HUMAN DENTAL PULP STEM CELLS

[†]**Kaidonis, Xenia***, Pan, W. Chew, R. and Koblar, S. (*University of Adelaide, SA)

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POS-THU-163 12:30-13:30

UTILISING THE MULTIBAC BACULOVIRUS PROTEIN EXPRESSION SYSTEM TO EXPRESS THE γ -SECRETASE ENZYME COMPLEX

[†]**Khan, Imran***, Krishanswamy, S., Groth, D., Wijaya, L., Morrici, M., Fraser, P., Berger, I., Schaffitzel - Berger, C., Martins, R. and Verdile, G. (*Edith Cowan University, WA)

POS-THU-164 13:30-14:30

TRANSCRANIAL MAGNETIC STIMULATION OF HUMAN DENTAL PULP STEM CELLS IN THE MAMMALIAN BRAIN

Kremer, Karlea*, Smith, A., Sandeman, L., Inglis, J., Ridding, M. and Koblar, S. (*University of Adelaide, SA)

POS-THU-165 12:30-13:30

DEVELOPMENT OF A NOVEL ANTEROGRADE TRACING TECHNIQUE TO SELECTIVELY IDENTIFY THE DIFFERENT TYPES OF SPINAL AFFERENT NERVE ENDING THAT UNDERLIE NOCICEPTION FROM VISCERAL ORGANS

Kyloh, Melinda* and Spencer, N. (*Flinders University, SA)

POS-THU-166 13:30-14:30

TARGETED NANOPARTICLE BASED THERAPIES TO TREAT SECONDARY DEGENERATION FOLLOWING PARTIAL INJURY TO THE CNS

[†]**Lozić, Ivan***, Bartlett, C., Smith, N., Kilburn, M., Iyer, K., Dunlop, S. and Fitzgerald, M. (*University of Western Australia, WA)

POS-THU-167 12:30-13:30

BEHAVIOURAL STATE CONTROL BY NUCLEUS INCERTUS (NI) NETWORKS: STUDIES USING AAV-DELIVERED DESIGNER RECEPTORS (DREADDs)

[†]**Ong-Palsson, Emma***, Hawkes, D., McDougall, S., White, M., Bathgate, R., Ma, S. and Gundlach, A. (*Florey Institute of Neuroscience and Mental Health, VIC)

POS-THU-168 13:30-14:30

ELECTRICAL FIELD STIMULATION (EFS) OVER SACRAL NERVES OVERCOMES CHRONIC CONSTIPATION DUE TO ANORECTAL RETENTION (AR) IN CHILDREN - A PILOT STUDY

Southwell, Bridget*, Yik, Y. and Hutson, J. (*Murdoch Childrens Research Institute, VIC)

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POS-THU-169 12:30-13:30

COMPARISON OF NEURO-DIFFERENTIATION PROTOCOLS FOR HUMAN DENTAL PULP STEM CELLS

[†]**Wali, Gautam***, Fan, Y., Sutharsan, R., Fernandes, J., Sue, C. and Mackay-Sim, A. (*Griffith University, QLD)

POS-THU-170 13:30-14:30

HUMAN DENTAL PULP STEM CELLS MODULATE PERMEABILITY OF THE BLOOD-BRAIN BARRIER

[†]**Winderlich, Josh***, Kremer, K. and Koblar, S. (*University of Adelaide, SA)

POS-THU-171 12:30-13:30

MICROFLUIDIC CULTURE PLATFORM FOR STUDYING NEURONAL RESPONSE TO AXONAL INJURY

[†]**Yap, Yiing Chiing***, King, A., Breadmore, M., Guijt R. and Dickson, T. (*Menzies Research Institute, TAS)

POS-THU-172 13:30-14:30

ARE SHARKS 'SMART'? DEVELOPING QUANTITATIVE MEASURES OF COGNITIVE ABILITY IN FISHES

Yopak, Kara*, Goh, G., Heel, K., Wassell, R., Northcutt, R., Collin, S. (*University of Western Australia, WA)

Sensory Systems

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POS-THU-173 12:30-13:30

MORPHOLOGY AND CONNECTIVITY OF A BISTRATIFIED AMACRINE CELL IN THE MOUSE RETINA

Lee, Sammy Chi Sam*, Meyer, A., Dedek, K. and Haverkamp, S. (*University of Sydney, NSW)

POS-THU-174 13:30-14:30

KETAMINE AND ITS METABOLITE INHIBIT LIPOPOLYSACCHARIDE (LPS)-INDUCED INTERLEUKIN-6 PRODUCTION IN A TIME- AND CONCENTRATION-DEPENDENT MANNER: POTENTIAL INVOLVEMENT OF MULTIPLE PATHWAYS

[†]**Li, Steven***, Hutchinson, M., Coller, J. and Somogyi, A. (*University of Adelaide, SA)

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POS-THU-175 12:30-13:30

MOLECULAR CHARACTERIZATION OF MOUSE PARVALBUMIN POSITIVE
PROPRIOCEPTIVE DORSAL ROOT GANGLIA NEURONS

[†]**Madden, Jessica***, Smith, K., Callister, R., Jobling, P. and Graham, B.
(*University of Newcastle, NSW)

POS-THU-176 13:30-14:30

ENCODING OF SIMPLE AND COMPLEX VIBRATORY STIMULI BY TACTILE
MECHANORECEPTORS IN THE HUMAN FINGER PAD

Mahns, David*, Birzniece, I. and Macefield, V. (*University of Western Sydney,
NSW)

POS-THU-177 12:30-13:30

NUTRIENT SENSING IN ENTEROCHROMAFFIN CELLS

[†]**Martin, Alyce***, Peiris, H., Raghupathi, R., Sutherland, K., Young, R. and Keat-
ing, D. (*Flinders University, SA)

POS-THU-178 13:30-14:30

A STOCHASTIC MODEL OF SHORT TERM PLASTICITY AND CALCIUM ION
CHANNEL NOISE AT INNER HAIR CELL RIBBON SYNAPSES

[†]**Moezzi, Bahar*** and McDonnell, M. (*University of South Australia, SA)

POS-THU-179 12:30-13:30

CONTRIBUTION OF C-TACTILE FIBRES TO INNOCUOUS MECHANORECEPTION:
AN EXAMPLE OF DISTRIBUTED PROCESSING OR REDUNDANCY?

Nagi, Saad*, Dunn, J., Birzniece, I. and Mahns, D. (*University of Western
Sydney, NSW)

POS-THU-180 13:30-14:30

SILDENAFIL AFFECTS RETINAL FUNCTION OF ANIMAL MODELS OF RETINAL
DEGENERATION

Nivison-Smith, Lisa*, Zhu, Y., Whatham, A., Bui, B., Fletcher, E. and Kalloniatis,
M. (*University of New South Wales, NSW)

POS-THU-181 12:30-13:30

MULTIPLE ACTIONS FOR VINPOCETINE FOLLOWING ACUTE RETINAL
METABOLIC INSULT

Nivison-Smith, Lisa*, Acosta, M., O'Brien, B., Misra, S., Ready, S., Troung, M.,
Guo, C. and Kalloniatis, M. (*University of New South Wales, NSW)

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POS-THU-182 13:30-14:30

NOVEL APPLICATION OF A LIQUID CRYSTAL DISPLAY TO MAP RECEPTIVE FIELDS REVEALS HIGH ACUITY IN LIGHT ADAPTED PHOTORECEPTORS OF THE AUSTRALIAN BLUE-BANDED BEE

O'Carroll, David*, Schuckel, J., Wiederman, S. and Warrant, E. (*University of Adelaide, SA)

POS-THU-183 12:30-13:30

TIMESCALES OF SENSORY INTEGRATION IN VISUAL CORTEX

Price, Nicholas*, Zavitz, E., Haghgooie, S., Yu, H., Davies, A., Rosa, M. and Price, N. (*Monash University, VIC)

POS-THU-184 13:30-14:30

CONSTITUTIVE EXPRESSION OF GLIAL CELL LINE-DERIVED NEUROTROPHIC FACTOR (GDNF) FAMILY LIGAND (GFL) RECEPTORS IN BONE AFFERENT NEURONS

[†]**Ringuet, Mitchell*** and Ivanusic, J. (*Melbourne University, VIC)

POS-THU-185 12:30-13:30

PLASMA EXTRAVASATION STUDIES TO DETERMINE THE EXTENT OF LATERAL SPROUTING AFTER MEDIAN NERVE INJURIES

[†]**Shaikh, Sumaiya***, Shortland, P. and Mahns, D. (*University of Western Sydney, NSW)

POS-THU-186 13:30-14:30

CORRELATED SPIKING ACTIVITY MIRRORS COHERENCE OF LOCAL FIELD POTENTIALS IN THE MIDDLE TEMPORAL (MT) AREA OF MARMOSET

[†]**Solomon, Selina***, Chen, S., Morley, J. and Solomon, S. (*University of Sydney, NSW)

POS-THU-187 12:30-13:30

HOW MUCH DO WE SEE AND REMEMBER OUTSIDE OF FIXATIONS IN NATURAL VISION?

Tsuchiya, Naotsugu*, Kaunitz, L. and Rowe, E. (*Monash University, VIC)

POS-THU-188 13:30-14:30

EFFICACY OF SYNCHRONISED NEURONAL OSCILLATIONS IN DORSAL STREAM FEEDBACK WITHIN THE VISUAL PATHWAY OF NON-HUMAN PRIMATES

Vidyasagar, Trichur*, Mohan, Y., Jayakumar, J. and Levichkina, E. (*University of Melbourne, VIC)

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POS-THU-190 13:30-14:30

CHARACTERIZATION OF CALRETININ IMMUNOREACTIVE CELLS IN THE HUMAN RETINA

Weltzien, Felix*, Lee, S., Denkaus, C, Martin, P. and Grünert, U. (*University of Sydney, NSW)

POS-THU-191 12:30-13:30

CONTRIBUTION OF TRPC3 CHANNELS TO BDNF-MEDIATED NEURITOGENESIS IN POSTNATAL MOUSE SPIRAL GANGLION NEURON EXPLANTS

Wong, Ann Chi Yan*, Ng, A., Birnbaumer, L. and Housley, G. (*University of New South Wales, NSW)

POS-THU-192 13:30-14:30

RESPONSE PROPERTIES OF V1 NEURONES IN THE FAR PERIPHERAL REPRESENTATION OF THE VISUAL FIELD

Yu, Hsin-Hao*, and Rosa, M. (*Monash University, VIC)

POS-THU-193 12:30-13:30

STIMULUS ESTIMATES FROM NEURONAL DECODING EXCEED PERCEPTUAL PERFORMANCE

Zavitz, Elizabeth*, Haghgoosie, S., Yu, H., Davies, A., Rosa, M. and Price, N. (*Monash University, VIC)

POS-THU-194 13:30-14:30

BINOCULAR RECEPTIVE FIELDS IN THE MARMOSSET LATERAL GENICULATE NUCLEUS

Zeater, Natalie*, Cheon, S., Solomon, S., Dreher, B., Morley, J., Focke, C. and Martin, P. (*University of Sydney, NSW)

[†]Indicates that presenter is a student

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POS-THU-195 12:30-13:30

ALTERED GABA_A RECEPTOR α_1 SUBUNIT PROTEIN EXPRESSION FOLLOWING LOW DOSE PRENATAL ETHANOL EXPOSURE IN THE NEONATAL AND ADULT RAT CEREBELLUM

[†]**Cullen, Carlie***, DeGasperini, S., Miller, S., Moritz, K. and Bjorkman, R.
(*University of Queensland, QLD)

POS-THU-196 13:30-14:30

PROTECTIVE POTENTIAL OF 17-BETA-ESTRADIOL ON MEMBRANE LINKED FUNCTIONS IN AGING FEMALE RATS: A BEHAVIORAL, BIOCHEMICAL AND ULTRASTRUCTURAL STUDY

[†]**Kumar, Pardeep***, Kale, R. and Baquer, N. (*Jawaharlal Nehru University, INDIA)

POS-THU-197 12:30-13:30

AXONAL FUSION IN REGENERATING AXONS SHARES MOLECULAR COMPONENTS WITH THE APOPTOTIC CELL RECOGNITION PATHWAY

Neumann, Brent*, Coakley, S., Giordano-Santini, R., Linton, C., Zhang, Y., Xue, D. and Hilliard, M. (*University of Queensland, QLD)

POS-THU-198 13:30-14:30

LOSS OF MEC-17 LEADS TO MICROTUBULE INSTABILITY AND AXONAL DEGENERATION

Neumann, Brent* and Hilliard, M. (*University of Queensland, QLD)

POS-THU-199 12:30-13:30

PREDICTING STOCHASTIC PERCEPTUAL FLUCTUATION IN CONTINUOUS FLASH SUPPRESSION IN EEG

Tsuchiya, Naotsugu*, Paton, B. and Hohwy, J. (*Monash University, VIC)

POS-THU-200 13:30-14:30

PREDICTING STIMULUS VISIBILITY BASED ON PRE-STIMULUS EEG RESPONSES

Tsuchiya, Naotsugu*, Fujiwara, M., Peters, R. and Koenig, R. (*Monash University, VIC)

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POS-THU-201 12:30-13:30

THE NEURONAL MECHANISMS OF STEADY STATE VISUALLY EVOKED
POTENTIAL (SSVEP) STUDIED IN THE FLY BRAINS WITH MULTI-CONTACT
ELECTRODES

Tsuchiya, Naotsugu*, Cohen, D., Paulk, A. and van Swinderen, B. (*Monash
University, VIC)

[†]Indicates that presenter is a student

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