

AUSTRALASIAN NEUROSCIENCE SOCIETY 39th Annual Scientific Meeting

2-5 December 2019

Adelaide Convention Centre, South Australia



ANS 2019 ASM Program

Adelaide Convention Centre

Monday 2 - Thursday 5 December 2019

Please note the program is subject to change

MONDAY 2 DECEMBER

12:00pm - 7:00pm	Registration Desk Open	Foyer M
1:00pm - 4:30pm	Imaging Workshop	Room: Hall A
2:00pm - 4:00pm	Chen Institute and the International Brain Initiative Global Networking Event for Brain Research in Australia and New Zealand	Room: City Room 1
5:00pm - 5:15pm	Opening of Conference	Room: Hall L
5:15pm - 6:30pm	PLENARY SESSION 1: INTERNATIONAL PLENARY Proteomic analysis of visual system organisation, function and plasticity Chair: Professor Cliff Abraham Speaker: Professor Hollis Cline, PhD	Room: Hall L
6:30pm - 8:30pm	Welcome Reception	Room: Halls MNO

TUESDAY 3 DECEMBER

7:30am - 6:00pm	Registration Desk Open	Foyer M			
8:30am - 9:30am	PLENARY SESSION 2: ELSPETH MCLACHLAN PLENARY Computational models of neural development Chair: Professor Brian Dean Speaker: Professor Geoffrey Goodhill	Room: Hall L			
9:30am - 10:00am	Morning Tea, Exhibition and Poster Display	Room: Halls MNO			
10:00am - 12:00pm	Symposium Sessions				
	Room: City Rooms 1&2	Room: City Rooms 3&4	Room: Riverbank Room 7	Room: Riverbank Room 8	Room: Hall L
	Chairs: Mary-Louise Rogers & Bradley Turner	Chair: Gary Egan	Chair: Thomas Burne	Chair: Alison Canty	Chair: Cliff Abraham
	New insights in Motor Neuron Disease pathogenesis, therapeutics and biomarkers Don Cleveland, Avinda Nath, Andreas Malaspina, Shyuan Ngo	New perspectives in neural circuit modelling Pulin Gong, Anthony Burkitt, T Kameneva, Geoffrey Goodhill	Diagnostics and Theranostics in Psychiatry: Using advanced biological, bioinformatics and computational tools to improve clinical outcomes Elizabeth Thomas, Brian Dean, Rachel Hill, Scott Clark	Through the looking glass: Observing real time changes in brain circuitry Vincenzo De Paola, Catherine Blizzard, Lucy Palmer, Ethan Scott	Presidential Symposium: Synaptic mechanisms of plasticity and memory Haruhiko Bito, Graham Collingridge, Johanna Montgomery, Joanna Williams
12:00pm - 1:45pm	Lunch, Exhibition and Poster Display People with odd numbered posters should stand by their posters to present	Room: Halls MNO			
12:30pm - 1:45pm	Brain Bee Final	Room: Hall L			
1:45pm - 3:45pm	Symposium Sessions				
	Room: City Rooms 1&2	Room: City Rooms 3&4	Room: Riverbank Room 7	Room: Riverbank Room 8	Room: Hall L
	Chair: Timothy Bredy	Chair: Kimberley Pitman	Chair: Andrea Harrington	Chair: Nela Durisic & Ramón Martínez-Mármol	Chair: Anand Gururajan
	Technical developments at the frontier of neuroscience Dan Ohtan Wang, Ryan Lister, Phillipa Tablerlay, John Lin	Glia in neurotransmission Raphael Ricci, Nicola Allen, Yasuyuki Osanai, Junhua Xiao	Mechanisms of pain: From the periphery to the brain Stuart Brierley, Yves De Koninck, Brett Graham, Elena Bagley	Deconstructing the synapse: How pre- and post-synaptic proteins come together to fine tune synaptic strength in health and disease Subhojit Roy, Frederic Meunier, Sarah Gordon, Patricio Opazo Olavarria	The stressed brain: Translating preclinical concepts into therapeutic realities Olivia O'Leary, Christopher Dayas, Anthony Hannan, Dagmar Koethe
3:45pm - 4:15pm	Afternoon Tea, Exhibition and Poster Display	Room: Halls MNO			
4:15pm - 5:15pm	PLENARY SESSION 3: ECCLES LECTURE Sex differences in neurological disease Chair: Professor Linda Richards Speaker: Professor Pamela McCombe	Room: Hall L			
5:30pm - 7:30pm	Workshops				
	Room: Riverbank Room 7	Room: City Rooms 1&2			
	NHMRC Grant System Workshop* Chair: Dr Tim Sargeant Professor Helen Cooper, Professor Melinda Fitzgerald, Professor Anthony Hannan, Professor Paul Martin	Neuroscience Teaching Workshop* A/Professor Kay Double and A/Professor Gaby Todd			
6:00pm - 7:30pm	Public Lecture: Neuroscience of Brain Resilience: Health, Fitness, and Addiction* Chair Lyndsey Collins-Praino Speaker: Professor Selena Bartlett	MC: Tom Rehn		Room: Hall L	
8:00pm - 10:00pm	Student & EMCR Networking Event	Venue: Regattas Bar & Kitchen			

WEDNESDAY 4 DECEMBER

7:30am - 6:00pm	Registration Desk Open	Foyer M			
8:30am - 9:30am	PLENARY SESSION 4: LAWRIE AUSTIN PLENARY Neuroplasticity neuroscience, multi-generational trauma, and the treatment of addiction and obesity Chair: A/Professor Michael Lardelli Speaker: Professor Selena Bartlett	Sponsored by: Tianqiao and Chrissy Chen Institute	Room: Hall L		
9:30am - 10:00am	Morning Tea, Exhibition and Poster Display	Room: Halls MNO			
10:00am - 12:00pm	Symposium Sessions				
	Room: City Rooms 1&2	Room: City Rooms 3&4	Room: Riverbank Room 7	Room: Riverbank Room 8	Room: Hall L
	Chair: Ehsan Arabzadeh	Chair: Lachlan Thompson	Chair: Marta Garrido & Carsten Murawski	Chair: Asheeta Prasad & Zoran Boskovic	Chair: Denovan Begg
	Vision, information processing and cognition Karin Nordstrom, Stephen Williams, Paul Martin, Jason Mattingley	Parkinson's disease: from pathogenesis to regeneration Glenda Halliday, Clare Parish, Deniz Kirik, Cedric Bardy	Computational Psychiatry Bernard Balleine, Shinsuke Suzuki, Roshini Randeniya, Xiaosi Gu	Illuminating neural circuits of emotional and motivational behaviour Mazen Kheirbek, Robyn Brown, Roger Marek, Dhanisha Jhaveri	When gut meets brain: their impact on food intake control Damien Keating, Zhi Yi Ong, Amanda Page, Ivan de Araujo
12:00pm - 1:45pm	Lunch, Exhibition and Poster Display People with even numbered posters should stand by their posters to present	Room: Halls MNO			
1:45pm - 3:45pm	Oral Presentations Selected from Submitted Abstracts				
	Room: City Rooms 1&2	Room: City Rooms 3&4	Room: Riverbank Room 7	Room: Riverbank Room 8	Room: Hall L
	Chair: Erica Fletcher & Luke Grundy	Chair: Brian Billups & Helen Gooch	Chair: Cedric Bardy & Anthony Don	Chair: Kim Hemsley & Toby Merson	Chair: Brenton Hordacre & Renee Turner

	Sensory circuits & mediators Xioatian Jiang, Hui Li, Mallory Luke, Sarah Petryszyn, Saba Gharaei, Conrad Lee, Javier Jimenez-Martin, Emmanuel Marquez Legorreta	Synaptic transmission Vladimir Sytnyk, Adam Hines, Hilary Yong, Christopher Small, Anmin Jiang, Lauren Bleakley, Nela Durisic, Benjamin Hunn	Development & regeneration Tobias Bluett, Rodrigo Suarez, Sebastian Quezada, Kai Sempert, Laura Fenlon, Lulu Xing, Eva Tomaskovic-Crook, Lachlan Harris	Glia Kimberley Pitman, Darren Clarke, Carlie Cullen, Jana Vukovic, Ali Delbaz, Ross O'Shea, Ruth Musgrove, Bianca Guglietti	Injury to the nervous system Shenpeng Zhang, Isabella Bilecki, Lin Kooi Ong, Jessica Sharkey, Bronwyn Kivell, Heidi Walkden, Sarah Stephenson, Leah Beauchamp
3:45pm - 4:15pm	Afternoon Tea, Exhibition and Poster Display				Room: Halls MNO

4:15pm - 4:50pm	A.W. Campbell Award Presentation Targeting changes in spinal circuit function to treat chronic pain <i>Speaker: Wendy Imlach</i>				Room: Hall L
4:50pm - 5:25pm	Nina Kondelos Award Presentation Reconstructing sacral visceral circuits for bioelectronic medicine <i>Speaker: Janet Keast</i>				Room: Hall L
5:30pm - 5:45pm	Brain Foundation Student Poster Award Presentation				Room: Hall L
5:45pm - 7:00pm	ANS Annual General Meeting				Room: Hall L
7:30pm - 11:30pm	Conference Dinner				Room: Ballroom
THURSDAY 5 DECEMBER					
8:00am - 4:30pm	Registration Desk Open				Foyer M
9:00am - 11:00am	Symposium Sessions				
	Room: City Rooms 1&2	Room: City Rooms 3&4	Room: Riverbank Room 7	Room: Riverbank Room 8	Room: Hall L
	Chair: Junhua Xiao	Chair: Michelle Rank & Kirsten Coupland	Chair: Geoffrey Goodhill	Chair: Andrew Lawrence	Chair: Ville-Petteri Makinen
	How altered lipid metabolism and myelin structure causes neurodegeneration John Kwok, Karen Mather, Maria Fuller, Anthony Don	Pathway to success: paving the way for translational stroke research Steven Zuryn, Nicole Jones, Michael O'Sullivan, Michael Tymianski	Wiring the brain: the development of cortical neurons and networks Nathalie Dehorter, Michael Crair, Linda Richards, James Bourne	Neurobiological mechanisms of drug addiction Michael Bowen, Jennifer Cornish, Arnaud Belmer, Asheeta Prasad	EMBL Australia scientific symposium on neural circuitry and cellular integrity in health and disease Cornelius Gross, Yann Gambin, Pirjo Apaja, Leon Teo
11:00am - 11:30am	Morning Tea, Exhibition and Poster Display				Room: Halls MNO
11:30am - 12:30pm	PLENARY SESSION 5: ANS PLENARY Chiaroscuro in the visual brain <i>Chair: A/Professor Kaylene Young</i> <i>Speaker: Professor Jose-Manuel Alonso</i>				Room: Hall L
12:30pm - 1:30pm	Lunch, Exhibition and Poster Display				Room: Halls MNO
1:30pm - 3:30pm	Oral Presentations Selected from Submitted Abstracts				
	Room: City Rooms 1&2	Room: City Rooms 3&4	Room: Riverbank Room 7	Room: Riverbank Room 8	Room: Hall L
	Chairs: Karissa Barthelson & Nick Spencer	Chairs: Frances Corrigan & Anthony Hannan	Chairs: Lyndsey Collins-Praino & Hannah Keage	Chairs: Peregrine Osborne & Rochelle Peterson	Chairs: Jenny Gunnensen & Arne Ittner
	New Technologies & methods Omar Ibrahim, Andrew Allen, Sandesh Panthi, Merja Joensuu, Harrison Evans, Mina Ghanimi Fard, Indranil Basak, Jenny Ekberg	Psychiatric disorders & memory Maarten van den Buuse, Martin Lewis, Xiang Li, Hayley North, Alexandre Cristino, Anna Schroeder, Angeline Leong, Charles Watson	Cognition, learning, & behaviour Thomas Burne, Asheeta Prasad, Teri Furlong, Cheryl Shoubridge, Sharna Jamadar, Janet van Eersel, Kimberly Archer, Jacqueline Heighway	Autonomic circuits Marcello Costa, Simon Brookes, Anita Leembruggen, Sabrina Poon, Madushani Herath, Aung Aung Kywe Moe, Stuart McDougall, Vanesa Stojanovska	Disorders of the nervous system Mohammad Ibrahim, Craig McIntosh, Prathista Chatterjee, Ryu Takechi, Morgan Newman, Eleanor Drummond, Anthony White, Tim Sargeant
3:30pm - 4:30pm	Presentation of Awards and Conference Close				Room: Hall L

*Please note that this workshop or lecture will be filmed for later release. By attending this workshop or lecture you indicate your willingness to be part of the recording.