

ANS 2022 AUSTRALASIAN NEUROSCIENCE SOCIETY AOTH ANNUAL SCIENTIFIC MEETING RECONNECT THE NETWORK²

Australasian Neuroscience Society

Pullman Albert Park, Melbourne, Australia 5-7 December 2022

	DAY 1 - MONDAY 5 DECEMBER									
0730 - 1800		Registration Desk Open								
0730 - 0830		Oxford Nanopore Technologies Breakfast Workshop								
0845 - 0900	15m	Welcome to Country Conference Open								
		Plenary 1 - Elspeth McLachlan Plenary (Grand 1-4)								
0900 - 1000	1hr									
		Professor Anthony Hannan, Florey Institute of Neuroscience and Mental Health, Melbourne								
1000 - 1030 1030 - 1230		Morning Tea, Exhibition and Poster Display	SYMPOSIUM/ORAL SESSION 1							
1050 - 1250			Symposia 2 - New models and research directions for ALS/MND							
	Symposia 1 - The diverse actions of stress on appetitive and anticipatory behaviour Chair: Prof Chris Dayas, University of Newcastle (NSW, AUS) Room: Grand 1-2		Chairs: Dr Adam Walker, University of Queensland (QLD, AUS) & Dr Catherine Blizzard, University of Tasmania (TAS,	Oral Session 1 - Synaptic & Neural Plasticity						
			AUS)	Chairs: Room: Element						
		Room. Granu 1-2	Room: Grand 3-4	Kööin. Element						
		CRH neurons show an innate precautionary response that is scaled by threat	The innate immune pathway for neuroinflammation in ALS	1030 - 1045 Online- and offline-LTP underlying long-term memory						
		Jaideep Bains, Hotchkiss Brain Institute, University of Calgary (Alberta, CAN)	A/Prof Seth Masters, The Walter and Eliza Hall Institute of Medical Research (VIC, AUS)	Prof Yasunori Hayashi, Kyoto University (Kyoto, JPN)						
	25m	Midbrain ghrelin signalling regulates conflict behaviour in the Edinger-Westphal nucleus Dr Leigh Walker, The Florey Institute of Neuroscience and Mental Health (VIC, AUS)	Cortical hyperexcitability drives ALS symptoms and pathology in mice Dr Mouna Haidar, The Florey Institute of Neuroscience and Mental Health (VIC, AUS)	1045 - 1100 Functions of the dual synaptotagmin Ca2+ sensors in synaptic transmission Zhitao Hu, University of Queensland (QLD, AUS)						
1030 - 1210	25m	Investigating the neural mechanisms underscoring stress-induced binge eating	Disease mechanisms and drug discovery in stem cell models of MND: past, present and future	1100 - 1115 The role of activity-dependent phosphorylation in the presynaptic function of α-synuclein						
		Roberta Anversa, The Florey Institute of Neuroscience and Mental Health (VIC, AUS)	A/Prof Lezanne Ooi, University of Wollongong (NSW, AUS)	Elysa Carr, The Florey Institute of Neuroscience and Mental Health (VIC, AUS)						
	i 25m i	Acute stress suppresses hunger-sensing Agrp neural activity	Advanced patient-derived cell assays to improve pre-clinical and clinical trial drug validation	1115 - 1130 Ubiquitination of the GluA1 subunit of AMPA receptors is required for synaptic plasticity, memory and cognitive flexibility						
		Prof Zane Andrews, Monash Biomedicine Discovery Institute (VIC, AUS)	A/Prof Anthony White, Queensland Institute of Medical Research (QLD, AUS)	Victor Anggono, Clem Jones Centre for Ageing Dementia Research, Queensland Brain Institute, University of Queensland (QLD, AUS) Amino acid transporter NTT4 is necessary for neurotransmitter recycling and normal memory retention						
				1130 - 1145 Angela Nicoli, Australian National University (ACT, AUS)						
		n Blitz 1-4	Blitz 1-4	BoNT/A targets Synaptotagmin 1-ganglioside-SV2 plasma membrane nanoclusters for synaptic vesicle entry and neurointoxication						
1210 1220				1145 - 1200 Merja Joensuu, Queensland Brain Institute, Clem Jones Centre for Ageing Dementia Research, Australian Institute for Bioengineering and						
1210 - 1230	ZUM			Nanotechnology, University of Queensland (QLD, AUS) A novel zebrafish axotomy model to study microglia morphophysiological diversity and its implications for the CNS						
				1200 - 1215 Andres Vidal-Itriago, Macquarie University (NSW, AUS)						
				1215 - 1230 Modelling of a KCNQ2 variant causing early onset epileptic encephalopathy using human iPSC-derived neurons and mouse						
		Lunch Fullibition and Destan Display		Miaomiao Mao, The Florey Institute of Neuroscience and Mental Health (VIC, AUS)						
1230 - 1330 1330 - 1530		Lunch, Exhibition and Poster Display								
Symposia 3 - Breaking New Ground: The brain, its development and disease										
1550 1550		/ /mposia 3 - Breaking New Ground: The brain, its development and disease	SYMPOSIUM/ORAL SESSION 2							
	Sy	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases	Oral Session 2 - Neuropsychiatric disorders & Mechanisms Chairs:						
	Sy	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS)		Oral Session 2 - Neuropsychiatric disorders & Mechanisms Chairs: Room: Element						
	Sy rah Step	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS)	Chairs:						
	Sy rah Step	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from	Chairs: Room: Element						
	Sy rah Step 25m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models.	Chairs:						
	Sy rah Step 25m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL)	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from	Chairs: Room: Element Constructing aversive emotional representations in the brain						
	Sy rah Step 25m 25m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism						
Chairs: Sa	Sy rah Step 25m 25m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS)	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam Al Abed, Australian National University (ACT, AUS)						
Chairs: Sa	Sy rah Step 25m 25m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism						
Chairs: Sa	Sy rah Step 25m 25m 25m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS)	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease.	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam Al Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) The role of the infealinable cortex in social recognition						
Chairs: Sa	Sy rah Step 25m 25m 25m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS)	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam Al Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR)						
Chairs: Sa	Sy rah Step 25m 25m 25m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia?	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam AI Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral						
Chairs: Sa	Sy rah Step 25m 25m 25m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia?	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam Al Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) 1430 - 1445 Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala						
Chairs: Sa	Sy rah Step 25m 25m 25m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia?	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam AI Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) 1430 - 1445 Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala Hermany Munguba, Weill Cornell Medicine (NY, US)						
Chairs: Sa	Sy rah Step 25m 25m 25m 25m	 Aberson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution Dr Laura Fenlon, University of Queensland (QLD, AUS) 	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia?	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam Al Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala						
Chairs: Sa 1330 - 1510	Sy rah Step 25m 25m 25m 25m	 Aberson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution Dr Laura Fenlon, University of Queensland (QLD, AUS) 	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia? Dr David Gonsalvez, Monash University (VIC, AUS)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam Al Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) 1430 - 1445 Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala Hermany Munguba, Weill Cornell Medicine (NY, US) 1445 - 1500 LncRNA as a therapeutic target in psychiatric disorders: A focus on antisense BDNF and addiction Kelly Clemens, University of New South Wales (NSW, AUS) 1500 Effects of psychiatric disease and aging on FKBP5/1 expression are specific to cortical supragranular neurons						
Chairs: Sa 1330 - 1510	Sy rah Step 25m 25m 25m 25m	 Aberson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution Dr Laura Fenlon, University of Queensland (QLD, AUS) 	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia? Dr David Gonsalvez, Monash University (VIC, AUS)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam Al Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA NG-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) 1430 - 1445 Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala Hermany Munguba, Weill Cornell Medicine (NY, US) 1445 - 1500 LincRNA as a therapeutic target in psychiatric disorders: A focus on antisense BDNF and addiction Kelly Clemens, University of New South Wales (NSW, AUS) 1500 - 1515 Effects of psychiatric disease and aging on FKBP5/1 expression are specific to cortical supragranular neurons Natalie Matosin, University of Wollongong (NSW, AUS)						
Chairs: Sa 1330 - 1510	Sy rah Step 25m 25m 25m 25m	 Aberson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution Dr Laura Fenlon, University of Queensland (QLD, AUS) 	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia? Dr David Gonsalvez, Monash University (VIC, AUS)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam AI Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala Hermany Munguba, Weill Cornell Medicine (NY, US) 1445 - 1500 LncRNA as a therapeutic target in psychiatric disorders: A focus on antisense BDNF and addiction Kelly Clemens, University of New South Wales (NSW, AUS) 1500 - 1515 Effects of psychiatric disease and aging on FKBP5/1 expression are specific to cortical supragranular neurons Natalie Matosin, University of Wollongong (NSW, AUS) 1515 - 1520 A critical mechanism for saturated free fatty acids in memory and learning						
Chairs: Sa 1330 - 1510 1510 - 1530	Sy rah Step 25m 25m 25m 25m 20m	 Aberson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution Dr Laura Fenlon, University of Queensland (QLD, AUS) 	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia? Dr David Gonsalvez, Monash University (VIC, AUS)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam AI Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seek Lee, Seoul National University (Seoul, KR) 1430 - 1445 Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala Hermany Munguba, Weill Cornell Medicine (NY, US) 1445 - 1500 LncRNA as a therapeutic target in psychiatric disorders: A focus on antisense BDNF and addiction Kelly Clemens, University of New South Wales (NSW, AUS) 1500 - 1515 Effects of psychiatric disease and aging on FKBP5/1 expression are specific to cortical supragranular neurons Natalie Matosin, University of Wollongong (NSW, AUS)						
Chairs: Sa 1330 - 1510 1510 - 1530 1530 - 1600 1600 - 1625	Sy rah Step 25m 25m 25m 25m 20m 30m 25m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution Dr Laura Fenlon, University of Queensland (QLD, AUS) Blitz 1-4	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia? Dr David Gonsalvez, Monash University (VIC, AUS)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam AI Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala Hermany Munguba, Weill Cornell Medicine (NY, US) 1445 - 1500 LncRNA as a therapeutic target in psychiatric disorders: A focus on antisense BDNF and addiction Kelly Clemens, University of New South Wales (NSW, AUS) 1500 - 1515 Effects of psychiatric disease and aging on FKBP5/1 expression are specific to cortical supragranular neurons Natalie Matosin, University of Wollongong (NSW, AUS) 1515 - 1520 A critical mechanism for saturated free fatty acids in memory and learning						
Chairs: Sa 1330 - 1510 1510 - 1530 1530 -1600 1600 -1625 1625 - 1650	Sy rah Step 25m 25m 25m 25m 20m 30m 25m 25m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution Dr Laura Fenlon, University of Queensland (QLD, AUS) Blitz 1-4	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia? Dr David Gonsalvez, Monash University (VIC, AUS)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam AI Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala Hermany Munguba, Weill Cornell Medicine (NY, US) 1445 - 1500 LncRNA as a therapeutic target in psychiatric disorders: A focus on antisense BDNF and addiction Kelly Clemens, University of New South Wales (NSW, AUS) 1500 - 1515 Effects of psychiatric disease and aging on FKBP5/1 expression are specific to cortical supragranular neurons Natalie Matosin, University of Wollongong (NSW, AUS) 1515 - 1520 A critical mechanism for saturated free fatty acids in memory and learning						
Chairs: Sa 1330 - 1510 1510 - 1530 1530 -1600 1600 -1625 1625 - 1650	Sy rah Step 25m 25m 25m 25m 20m 30m 25m 25m 10m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution Dr Laura Fenlon, University of Queensland (QLD, AUS) Blitz 1-4	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia? Dr David Gonsalvez, Monash University (VIC, AUS)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam AI Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala Hermany Munguba, Weill Cornell Medicine (NY, US) 1445 - 1500 LncRNA as a therapeutic target in psychiatric disorders: A focus on antisense BDNF and addiction Kelly Clemens, University of New South Wales (NSW, AUS) 1500 - 1515 Effects of psychiatric disease and aging on FKBP5/1 expression are specific to cortical supragranular neurons Natalie Matosin, University of Wollongong (NSW, AUS) 1515 - 1520 A critical mechanism for saturated free fatty acids in memory and learning						
Chairs: Sa 1330 - 1510 1510 - 1530 1530 -1600 1600 -1625 1625 - 1650 1650 - 1700	Sy rah Step 25m 25m 25m 25m 20m 30m 25m 25m 25m 10m	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution Dr Laura Fenlon, University of Queensland (QLD, AUS) Blitz 1-4 Afternoon Tea, Exhibition and Poster Display A.W. Campbell Award Presentation (Grand 1-4) Nina Kondelos Award Presentation (Grand 1-4) Illumina Neurogenomics Research Award Presentation (Grand 1-4) Plenary 2 - International Plenary (Grand 1-4)	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia? Dr David Gonsalvez, Monash University (VIC, AUS)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam AI Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala Hermany Munguba, Weill Cornell Medicine (NY, US) 1445 - 1500 LncRNA as a therapeutic target in psychiatric disorders: A focus on antisense BDNF and addiction Kelly Clemens, University of New South Wales (NSW, AUS) 1500 - 1515 Effects of psychiatric disease and aging on FKBP5/1 expression are specific to cortical supragranular neurons Natalie Matosin, University of Wollongong (NSW, AUS) 1515 - 1520 A critical mechanism for saturated free fatty acids in memory and learning						
Chairs: Sa 1330 - 1510 1510 - 1530 1530 -1600 1600 -1625 1625 - 1650 1650 - 1700	Sy rah Step 25m 25m 25m 25m 20m 30m 25m 25m 25m 10m 1hr	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution Dr Laura Fenlon, University of Queensland (QLD, AUS) Blitz 1-4	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia? Dr David Gonsalvez, Monash University (VIC, AUS)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam AI Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala Hermany Munguba, Weill Cornell Medicine (NY, US) 1445 - 1500 LncRNA as a therapeutic target in psychiatric disorders: A focus on antisense BDNF and addiction Kelly Clemens, University of New South Wales (NSW, AUS) 1500 - 1515 Effects of psychiatric disease and aging on FKBP5/1 expression are specific to cortical supragranular neurons Natalie Matosin, University of Wollongong (NSW, AUS) 1515 - 1520 A critical mechanism for saturated free fatty acids in memory and learning						
Chairs: Sa 1330 - 1510 1510 - 1530 1530 - 1600 1600 - 1625 1625 - 1650 1650 - 1700 1700 - 1800 1800 - 2000	Sy rah Step 25m 25m 25m 25m 25m 20m 30m 25m 25m 10m 10m 1hr 2hr	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution Dr Laura Fenlon, University of Queensland (QLD, AUS) Blitz 1-4 Afternoon Tea, Exhibition and Poster Display A.W. Campbell Award Presentation (Grand 1-4) Nina Kondelos Award Presentation (Grand 1-4) Illumina Neurogenomics Research Award Presentation (Grand 1-4) Plenary 2 - International Plenary (Grand 1-4) Imaging synaptic changes in Alzheimer's disease Professor Tara Spires-Jones, University of Edinburgh Welcome Reception (including General Poster Session and Trade Display)	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia? Dr David Gonsalvez, Monash University (VIC, AUS)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam AI Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala Hermany Munguba, Weill Cornell Medicine (NY, US) 1445 - 1500 LncRNA as a therapeutic target in psychiatric disorders: A focus on antisense BDNF and addiction Kelly Clemens, University of New South Wales (NSW, AUS) 1500 - 1515 Effects of psychiatric disease and aging on FKBP5/1 expression are specific to cortical supragranular neurons Natalie Matosin, University of Wollongong (NSW, AUS) 1515 - 1520 A critical mechanism for saturated free fatty acids in memory and learning						
Chairs: Sa 1330 - 1510 1510 - 1530 1530 - 1600 1600 - 1625 1625 - 1650 1650 - 1700 1700 - 1800 1800 - 2000	Sy rah Step 25m 25m 25m 25m 25m 20m 30m 25m 25m 10m 10m 1hr 2hr	henson, Murdoch Children's Research Institute (VIC, AUS) & Dad Abu-Bonsrah, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) Room: Grand 1-2 Modelling Autism and Intellectual Disability disorders in Drosophila – of mechanisms and treatment strategies Prof Annette Schenck, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center (Nijmegen, NL) Cellular and molecular dynamics of the developing human prefrontal cortex Prof Ryan Lister, Harry Perkins Institute of Medical Research (WA, AUS) 3D organoids to study human brain development and disease A/Prof Silvia Velasco, Murdoch Children's Research Institute (VIC, AUS) Timing shapes the cerebral cortex during development and evolution Dr Laura Fenlon, University of Queensland (QLD, AUS) Blitz 1-4 Afternoon Tea, Exhibition and Poster Display A.W. Campbell Award Presentation (Grand 1-4) Illumina Neurogenomics Research Award Presentation (Grand 1-4) Plenary 2 - International Plenary (Grand 1-4) Imaging synaptic changes in Alzheimer's disease Professor Tara Spires-Jones, University of Edinburgh	Symposia 4 - Glial dysfunction and morphological changes in neurodegenerative and neuroinflammatory diseases Chair: Dr Erika Gyengesi, Western Sydney University (NSW, AUS) Room: Grand 4-5 Deciphering the intricate glial response in Alzheimer's disease: evidence from preclinical models. Dr Caterina Scuderi, Sapienza University of Rome (Rome, IT) The cytokines interleukin-6 and interferon-a induce distinct microglia phenotypes Dr Markus Hofer, University of Sydney (NSW, AUS) Transcriptional profiling of human microglia and astrocytes in Alzheimer's disease. Dr Amy Smith, University of Auckland (Auckland, NZ) Can we limit CNS neuroinflammation by targeting Wnt signalling in oligodendroglia? Dr David Gonsalvez, Monash University (VIC, AUS)	Chairs: Room: Element 1330 - 1345 Constructing aversive emotional representations in the brain Prof Joshua Johanesen, RIKEN Center for Brain Science (Saitama, JPN) 1345 - 1400 Shifted Parvalbumin Interneuron States Elicit Posttraumatic Stress Disorder-like Memory in Autism Shaam AI Abed, Australian National University (ACT, AUS) 1400 - 1415 Discovery of synapse-specific RNA N6-methyladenosine readers associated with the consolidation of fear extinction memory Sachithrani Madugalle, Queensland Brain Institute (QLD, AUS) 1415 - 1430 The role of the infralimbic cortex in social recognition Prof Yong-Seok Lee, Seoul National University (Seoul, KR) Projection-targeted photopharmacology reveals anxiolytic effects of mGluR2-mediated presynaptic inhibition of corticalinputs to the basolateral amygdala Hermany Munguba, Weill Cornell Medicine (NY, US) 1445 - 1500 LncRNA as a therapeutic target in psychiatric disorders: A focus on antisense BDNF and addiction Kelly Clemens, University of New South Wales (NSW, AUS) 1500 - 1515 Effects of psychiatric disease and aging on FKBP5/1 expression are specific to cortical supragranular neurons Natalie Matosin, University of Wollongong (NSW, AUS) 1515 - 1520 A critical mechanism for saturated free fatty acids in memory and learning						

DAY 2 - TU	JESDA	Y 6 DECEMBER							
0730 - 1930		Registration Desk Open							
		Plenary 3 - Lawrie Austin Plenary (Grand 1-4)							
0900 - 1000	1hr	Understanding the brain through the nose							
1000 - 1020	20m	ofessor John Bekkers, Eccles Institute of Neuroscience, Australian National University orning Tea, Exhibition and Poster Display							
1030 - 1030			SYMPOSIUM/ORAL SESSION 3						
			Symposia 6 - Seedlings to forests: Growing a collaborative cerebrovascular research pipeline from the ground up.						
	Sym	posia 5 - Adaptation: neural basis of context-dependent sensory processing	The StrokeCORE model.		Oral Session 3 - B				
Chairs: Di	asuke S	himaoka, Monash University (VIC, AUS) & Maureen Hagan, Monash University (VIC, AUS)	Chairs: Dr Michelle Rank, University of Melbourne (VIC, AUS) & Dr Kirsten Coupland, University of Newcastle (NSW,		Ch				
	Room: Grand 1-2		AUS) Room: Grand 3-4		Room:				
			Selenium supplementation rescues the cognitive and motor deficits observed in						
	25m	Context-dependent sensory processing in larval zebrafish Prof Ethan Scott, Queensland Brain Institute, University of Queensland (QLD, AUS)	mouse models of stroke		Music as a novel and non-invasive rehabilitative paradigm to promo Anthony Kline, University of Pittsburgh (PA, US)				
			Dr Tara Walker, Queensland Brain Institute, University of Queensland (QLD, AUS)						
		Modulation of somatosensory cortex by the superior colliculus	Trials and tribulations of translational stroke research: the importance of large		Terresting II. C trans signalling to repair the injured brain				
	25m	Dr Saha Gharaei, Eccles Institute of Neuroscience, Australian National University (ACT, AUS)	animal models	1045 - 1100	Targeting IL-6 trans-signalling to repair the injured brain Emily Willis, University of Queensland (QLD, AUS)				
1030 - 1210			Annabel Sorby-Adams, University of Cambridge (Cambridge, UK)						
	25m	Evidence for two subcortical routes for visual motion perception in healthy adults	Development of PSD95 inhibitors for acute ischemic stroke: From target discovery to Phase 3 trials	1100 - 1115	Lack of the Sez6 protein, or inhibition of Sez6 ectodomain shedding,				
	25/11	Elise Rowe, University of Melbourne (VIC, AUS)	Prof Michael Tymianski, Krembil Research Institute, Toronto Western Hospital, University of Toronto (Ontario, CAN)	-100-1115	Kathleen Teng, The Florey Institute of Neuroscience and Mental He				
		Balanced, Orientation-Dependent Dichoptic Masking in Visual Cortex Measured Using							
	25m	Electroencephalography (EEG)	Smart nanomaterials and fusion molecules for targeted thrombolysis Prof Christoph Hagemeyer, Australian Centre for Blood Diseases, Monash University (VIC, AUS)	1115 - 1130	Spectrin forms a periodic cytoskeleton within the epidermis to prese Sean Coakley, University of Queensland (QLD, AUS)				
		Luke Hallum, University of Auckland (Auckland, NZ)	Tor christoph fragenceyer, Australian centre for blood biseases, monasti Ulliversity (VIC, AUS)						
					The precision medicine ORG 34167 restores channel voltage depend				
				1130 - 1145	an HCN1 developmental and epileptic encephalopathy Lauren Bleakley, The Florey Institute of Neuroscience and Mental I				
					Molecular Neuropathologies from Altered RNA Splicing Mediated by				
				1145 - 1200	Dystrophy				
1210 - 1230	20m	Blitz 1-4	Blitz 1-4		Chia-Wei Huang, National Yang Ming Chiao Tung University (Taipe				
				1200 - 1215	Microglia dynamically interact with pericytes in the healthy and infla				
					Catherine Foster, University of Tasmania (TAS, AUS)				
					Thermal burn injury induces inflammatory and maladaptive neural p Alex Tang, Perron Institute for Neurological and Translational Scient				
		Lunch, Exhibition and Poster Display							
1230 - 1330	1hr	Brain Bee Final TBC (Element)							
1330 - 1530	530 2hr SYMPOSIUM/ORAL SESSION 4								
	Chai	Symposia 7 - Neuroscience Teaching	Symposia 8 - Advances in Neurogenetic Techniques		Oral Session 4 - Co				
	Chair: Prof Kay Double, Brain and Mind Centre, University of Sydney (NSW, AUS) Room: Grand 1-2		Chairs: Nick Spencer, Flinders University (SA, AUS) & Wendy Imlach, Monash University (VIC, AUS) Room: Grand 3-4		Ch Room:				
	25m	Australian Neuroscience Teaching in Higher Education – Learnings From a National Survey Prof Gabrielle Todd, University of South Australia (SA, AUS)	Ontogenetic renair in a genetic model of Parkinson's disease						
					CA2 circuit mediating hippocampal modulation of cholinergic tone Prof Thomas McHugh, RIKEN Center for Brain Science (Saitama, JP				
	25m	BioLab Collective - an Australian Laboratory Skills Video Library for the Molecular Biosciences A/Prof Jack Wang, University of Queensland (QLD, AUS)	Development of optogenetic approaches to functionally dissect neuronal circuits. Dr Mariana Del Rosso De Melo, University of Melbourne (VIC, AUS)	1345 - 1400	Distinct prefrontal cortex activity in fear memory consolidation Roger Marek, Queensland Brain Institute (QLD, AUS)				
1330 - 1510		How to enhance learning and engagement in neuroscience education: a showcase of open-							
	25m	access digital resources	Hybrid optical/electrical neural modulation	1400 - 1415	Learning and metalearning in the cerebellum Prof Jennifer Raymond, Stanford University (CA, US)				
		Dr Lila Landowski, University of Tasmania (TAS, AUS)	A/Prof Rachael Richardson, Bionics Institute (VIC, AUS)		Proi Jennifer Raymond, Stanford University (CA, US)				
		NeuroLab – Integrated digital platform for lab delivery and education in cognitive and brain	Optogenetic dissection of spinal sensory circuits		Multisensory Integration in the Mouse Hippocampus Using Widefiel				
	25m	sciences Bianca De Witt, Macquarie University (NSW, AUS)	A/Prof Brett Graham, University of Newcastle, Hunter Medical Research Institute (NSW, AUS)	1415 - 1430	Dechuan Sun, University of Melbourne (VIC, AUS)				
		Dianca De Witt, Macquarie Oniversity (NSW, AOS)			Stimulus structure impacts neural population codes for motion in m				
	20m	Blitz 1-4	Blitz 1-4	1430 - 1445	Elizabeth Zavitz, Monash University (VIC, AUS)				
				1445 - 1500	Activation of M1 cholinergic receptors in mouse somatosensory cor				
1510 - 1530				1445 - 1500	Wricha Mishra, Australian Research Council Centre of Excellence f				
				1500 - 1515	The synaptic engram				
					Prof Bong-Kiun Kaang, Seoul National University (Seoul, KR) Germline variants in tumor suppressor FBXW7 lead to impaired ubio				
				1515 - 1530	Sarah Stephenson, Murdoch Children's Research Institute, Univers				
1530 -1600	30 30m Afternoon Tea, Exhibition and Poster Display								
		Plenary 4 - Eccles Plenary (Grand 1-4)							
1600 - 1700	1hr	Neurosurgery on the experimental spectrum							
1700 4554		Professor Christopher Lind, University of Western Australia							
		ANS Annual General Meeting (Element) Break							
1800 - 1900 1hr Break 1900 - 1930 30m Pre Dinner Drinks									
1930 - 2300 3.5 hr Conference Dinner (Grand Ballroom 1-4)									

- Brain Injury & Repair Chairs: om: Element

note motor, affect, and cognitive recovery after experimental traumatic brain injury

ng, attenuates cocaine relapse Health, University of Melbourne (VIC, AUS)

eserve axonal integrity

endence, normalises neuronal dysfunction and reduces epileptiform brain activity in

al Health (VIC, AUS)

by Muscleblind-Like 2 During Brain Development in Mouse Model of Myotonic

ipei, TW) nflamed brain

al plasticity processes in the brain cience, University of Western Australia (WA, AUS)

- Cognition & Memory Chairs: m: Element

JPN)

field Calcium Imaging

marmoset V1 and MT

cortex enhances neuronal responses and improves detection behaviour e for Integrative Brain Function, Australian National University (ACT, AUS)

ubiquitination and a novel neurodevelopmental syndrome versity of Melbourne (VIC, AUS)

DAY 3 - W		SDAY 7 DECEMBER				
1000 - 1600		Registration Desk Open				
0930 - 1130	2hr		SYMPOSIUM/ORAL SESSION 5			
Symposia 9 - The new era of psychedelic neuroscience and pharmacotherapy: A multidisciplinary perspective Chairs: Kyna Conn, Biomedicine Discovery Institute, Monash University (VIC, AUS) & Devon Stoliker, Turner Institute for Brian and Mental Health, Monash University (VIC, AUS) Room: Grand 1-2		n, Biomedicine Discovery Institute, Monash University (VIC, AUS) & Devon Stoliker, Turner Institute for Brian and Mental Health, Monash University (VIC, AUS)	Symposia 10 - Advances in autonomic control of visceral organs Chairs: Prof John Furness, University of Melbourne, The Florey Institute of Neuroscience and Mental Health (VIC, AUS) & Dr Kelsi Dodds, Flinders Health and Medical Research Institute, Flinders University (SA, AUS) Room: Grand 3-4		Oral Session 5 - Neurodeger Cl Room	
	25m	Mechanisms and levels of explanation in psychedelic therapy Dr Chris Letheby, University of Western Australia (WA, AUS)	Do bladder sensory neurons have rhythm? TRPing over their interaction with cannabinoids Dr Stewart Christie, Flinders Health and Medical Research Institute, Flinders University (SA, AUS)	0930 - 0945	Ablation of type I interferon responses in astrocytes attenuates ne Emina Hayashida, University of Sydney (NSW, AUS)	
	25m	Neural mechanisms of psychedelic-induced altered states of consciousness A/Prof Adeel Razi, Turner Institute for Brain and Mental Health and Monash Biomedical Imaging, Monash University (VIC, AUS)	Impact of long-term hypercapnia on peptidergic transmission in brain chemoreceptor regions Dr Natasha Kumar, University of New South Wales (NSW, AUS)	0945 - 1000	SARS-CoV-2 infection and the presence of viral fusogens cause neu Ramon Martinez-Marmol, Queensland Brain Institute (QLD, AUS)	
0930 - 1110	25m	Psilocybin-Assisted Psychotherapy for Treatment-Resistant Anorexia Nervosa – PANOREXIA Trial Sarah-Catherine Rodan, Brain and Mind Centre & InsideOut Institute for Eating Disorders, University of Sydney (NSW, AUS)	Chlamydia alters smooth muscle motility and sensory pathways in the female reproductive tract A/Prof Phil Jobling, University of Newcastle, Hunter Medical Research Institute (NSW, AUS)	1000 - 1015	β-Glucocerebrosidase-1 (GBA1) signaling in CNS immune cells regu Nanthini Jayabalan, University of Queensland (QLD, AUS)	
	25m	Psilocybin improves cognitive flexibility and prevents pathological weight loss in female rats Dr Claire Foldi, Monash Biomedicine Discovery Institute (VIC, AUS)	Understanding and manipulating the 'sacral vagus': a multi-functional nerve essential for pelvic organ regulation Prof Janet Keast, University of Melbourne (VIC, AUS)	1015 - 1030	Low intensity repetitive transcranial magnetic stimulation enhance of toxic demyelination Tram Nguyen, Menzies Institute for Medical Research (TAS, AUS)	
				1030 - 1045	Bruton's Tyrosine Kinase inhibition to target multiple neuropatholo Richard Gordon, University of Queensland, Royal Brisbane and W	
1110 - 1130	0 20m	Blitz 1.4	Blitz 1-4	1045 - 1100	Choroid plexus defects in Down syndrome brain organoids enhanc Mohammed Shaker, University of Queensland (QLD, AUS)	
				1100 - 1115	Secretory organelles and Golgi outpost structures in dendrites of h Jingqi Wang, University of Melbourne (VIC, AUS)	
				1115 - 1130	SARS-CoV-2 drives NLRP3 inflammasome activation in human micr Eduardo Albornoz Balmaceda, University of Queensland (QLD, AU	
1130 - 1200	30m	Equity & Diversity Committee Panel				
1200 - 1300	1hr	Lunch, Exhibition and Poster Display				
1300 - 1500	2hr		SYMPOSIUM/ORAL SESSION 6			
Symposia 11 - Restructuring the striatal mosaic: macro and micro-circuit interactions in learning-related plasticity Chairs: Bernard Balleine, Decision Neuroscience Laboratory, University of New South Wales (NSW, AUS) Room: Grand 1-2		plasticity I Balleine, Decision Neuroscience Laboratory, University of New South Wales (NSW, AUS)	Symposia 12 - Gene therapy for neurological disorders Chairs: Cliff Abraham, University of Otago (Dunedin, NZ) & Lucia Schweitzer, University of Otago (Dunedin, NZ) Room: Grand 3-4	Oral Session 6 - New De C Roon		
	25m	Amygdala-cortical control of striatal plasticity drives the acquisition of goal-directed action. Dr Simon Fisher, The Florey Institute of Neuroscience and Mental Health (VIC, AUS)	From gene therapy to neuroinflammation - human pluripotent stem cell-derived brain organoids as tools for modelling human neurological disease Sam Nayler, Queensland Institute of Medical Research (QLD, AUS)	1300 - 1315	Uncovering subtype specific intra-tumoural heterogeneity in brain Saskia Freytag, The Walter and Eliza Hall Institute (VIC, AUS)	
1300 - 1440	25m	Local D2- to D1-neuron transmodulation in the striatum and its role in goal-directed learning Dr Miriam Matamales, Decision Neuroscience Laboratory, University of New South Wales (NSW, AUS)	Gene therapy approaches in mouse models of Alzheimer's disease Sophie Mathiesen, University of Otago (Dunedin, NZ)	1315 - 1330	Using human iPSC-derived 3D organoids to model demyelination, or Shwathy Ramesan, The Florey institute of Neuroscience and Men	
1300 - 1440	25m	Serotonergic modulation of striatal circuits: from cell signaling to behavior Raffaella Tonini, Istituto Italiano di Tecnologia (Genova, IT)	Can we develop better gene therapy strategies by casting a wider cell net? Debbie Young, University of Auckland (Auckland, NZ)	1330 - 1345	Pathological TDP-43 sequesters endogenous TDP-43 into dynamic Sean Keating, Queensland Brain Institute (QLD, AUS)	
	25m	Monitoring the monitors: how cholinergic interneuron activity is controlled throughout striatal development.	Retinal gene therapy: current and future applications	1345 - 1400	A sporadic Alzheimer's blood-brain barrier model for developing ul	

Nathalie Dehorter, Eccles Institute of Neuroscience, Australian National University (ACT, Tom Edwards, University of Melbourne (VIC, AUS)

Blitz 1-4

1440 - 1500 20m Blitz 1-4

AUS)

1500 - 1530 30m Afternoon Tea, Exhibition and Poster Display Plenary 5 - ANS Plenary (Grand 1-4)

1530 - 1630 1hr Deciphering the role of autism genes in cortical development: from stem cells to synapses

Professor Helen Cooper, Queensland Brain Institute

1630 -1700 30m Presentation of Awards and Conference Close (Grand 1-4)

generative Disorders & Treatment Chairs: om: Element

neuroinflammation in a mouse model of interferon-alpha-mediated neurotoxicity

neuronal and glial fusion JS)

egulates inflammasome activation in Parkinson's disease

nces remyelination by newborn and surviving oligodendrocytes in the cuprizone model

ological processes in Parkinson's disease Women's Hospital, Brisbane (QLD, AUS) nce neurotropism of SARS-CoV-2

f human iPSC-derived neurons

icroglia AUS)

Developments in Neuroscience Chairs: om: Element

in cancer

n, oligodendrocyte dysfunction and microglial toxicity in Multiple Sclerosis ental Health (VIC, AUS)

ic nuclear assemblies or disease-reminiscent inclusions in cell models of ALS and FTD

 1345 - 1400
 A sporadic Alzheimer's blood-brain barrier model for developing ultrasound-mediated delivery of Aducanumab and anti-Tau antibodies

 Joanna Wasielewska, QIMR Berghofer Medical Research Institute, University of Queensland (QLD, AUS)

 1400 - 1415
 Flourophore-free optrodes: a new technique for sensing biopotentials Amr Al Abed, Australian National University (ACT, AUS)

1415 - 1430 Proximity-labelling identifies targets of tau in glutamate receptor trafficking and memory formation

Synthetic Biological Intelligence: evidence of in vitro goal-directed learning within a simulated game-world

An in vitro neuronal computing module displays self-organised critical dynamics on complex task acquisition

Forough Habibollahi Saatlou, University of Melbourne (VIC, AUS)

Emmanuel Prikas, Flinders University (SA, AUS)

1430 - 1445 Synthetic Biological Incluse Brett Kagan, Cortical Labs (VIC, AUS)

1445 - 1500