CAMAND Program 2023



11:25 AM	12+3 Abstract (7)
	Rebecca San Gil (University of Queensland) – postdoc
	Chaperone proteins may protect neurons by preventing protein misfolding in
	the early stage of TDP-43-mediated disease
11:40 AM	15+5 Invited (8)
	Dezerae Cox (University of Cambridge)
	Fingerprinting protein aggregates reveals unique signature of Motor Neuron
	Disease
12:00 PM	15+5 Invited (9)
	Charlie Bond (University of Western Australia)
	In vitro studies of human gene regulatory proteins involved in biomolecular
	condensation
12:20 PM	Lunch
1:00 PM	Session 3 - Chairs: Rachel Gormal and Eleanor Drummond
	12+3 Abstract (10)
	Rebekah Parkinson (Australian National University)- student
	Examining the Neuro-Immune Interactions to Trace the Origin and
	Progression of Parkinson's Disease
1:15 PM	12+3 Abstract (11)
	Adekunle Bademosi (University of Queensland) - postdoc
	Inhibition of MND-linked TDP-43 mutants sequestration via RNA interactions
1:30 PM	12+3 Abstract (12)
	Ruohua Lyu (University of Melbourne) - student
	ASAP-ID: A method of proximity labelling with a 19 amino acid fusion tag
1:45 PM	12+3 Abstract (13)
	Alayna C Caruso (University of Melbourne) - student
	Development of a novel vectorized tau-targeting intrabody for enhanced
	brain delivery and therapeutic efficacy against Alzheimer's disease
2:00 PM	<u>Session 4 - Workshop on Models</u>
	Chaired by Sarah Gordon
	Which way to go? Model systems for the study of neurodegeneration
	Panelists:
	Samantha Barton - iPSC-derived cells and organoids
	Margaret Sunde – in vitro approaches
	Michael Lardelli – zebrafish
	Jürgen Götz – mouse models
3:05 PM	<u>Afternoon tea</u>
3:30 PM	<u>Session 5 - Chairs: Jürgen Gotz and Monokesh Sen</u>
	12+3 Abstract (14)

	Elyas Arvell (University of Melbourne) – student The role of activity-dependent phosphorylation in the presynaptic function of
3:45 PM	<i>a-synuclein</i> 12+3 Abstract (15)
	Kye Kudo (University of Queensland) - student
	a-Synuclein dynamic clustering at the presynapse
4:00 PM	12+3 Abstract (16)
	Jereme G. Spiers (Australian National University) – postdoc
	<i>Altered protein nitrosothiol patterns in extracellular vesicles from Alzheimer's disease patients</i>
4:15 PM	12+3 Abstract (17)
	Carol Dobson-Stone (University of Sydney) - lab head
	TDP-43 subcellular mislocalisation is correlated with loss of optineurin
	<i>binding for frontotemporal dementia- and amyotrophic lateral sclerosis-</i> <i>associated TBK1 missense variants</i>
4:30 PM	<u>Session 6 – Posters</u>
5:30 PM	Dinner on-site - informal networking and drinks
7:30 PM	Day 1 close

Day 2 (Monday December 4, 2023)		
8:30 AM	Registration	
9:00 AM	<u>Session 7 - Chairs: Margie Sunde and Lyndsey Collins-Praino</u>	
	15+5 Invited (18)	
	Arne Ittner (Flinders University)	
	Protein kinases, tau phosphorylation and Alzheimer's disease	
9:20 AM	15+5 Invited (19)	
	Angela Laird (Macquarie University)	
	The normal function of ataxin-3 and its impact in MJD and other	
	neurodegenerative diseases	
9:40 AM	15+5 Invited (20)	
	Grant Dewson (Walter and Eliza Hall Institute)	
	Targeting mitochondria to improve neuronal survival in Parkinson's	
10:00 AM	12+3 Abstract (21)	
	Samantha Barton (Florey Institute of Neuroscience and Mental Health) -	
	lab head	
	Using Human iPSC-derived Organoids to Model Multiple Sclerosis	
10:15 AM	<u>Morning tea</u>	
10:50 AM	Session 8 - Chairs: Archa Fox and Kevin Chen	
TO:00 AM	15+ 5 Invited (22)	
	Lezanne Ooi (University of Wollongong)	

	Molecular and cellular mechanisms underpinning disruptions to neuronal calcium signalling and vulnerability in late-onset Alzheimer's disease neurons
11:10 AM	15+5 Invited (23)
	Timothy Sargeant (South Australian Health and Medical Research Institute)
	Autophagy decreases in the ageing mouse brain in a sex dependent manner
11:30 AM	15+5 Invited (24)
	Yi Shen (University of Sydney)
	The liquid-to-solid transition of condensates initiates at interface
11:50 AM	12+3 Abstract (25)
	Thomas Ve (Griffith University) - lab head
	Molecular basis for activation and inhibition of the pro-neurodegenerative
	NADase SARM1
12:05 PM	Lunch
	Sponsored by MND and Me Foundation
1:00 PM	<u>Session 9 - Chairs: Danny Hatters and Liviu Bodea</u>
	12+3 Abstract (26)
	Brett Collins (University of Queensland) - lab head
	Structure of the endosomal Commander complex mutated in Ritscher-
	Schinzel syndrome: combining crystallography, cryoEM and AlphaFold2
1:15 PM	12+3 Abstract (27)
	Amy Smith (University of Auckland) - lab head
	A human functional genomics approach to identify glial phenotypes in
	dementia
1:30 PM	Prizes and closing remarks
	Adam Walker, Treasurer of the Meeting
	 Poster prizes (sponsored by MND and Me Foundation and Biochemical Journal)
	 Yerbury Prize for Best ECR talk (sponsored by <i>Miltenyi Biotec</i>)
1:45 PM	Meeting close