

1st Melbourne Cell Biology Signalling Meeting	
Morning Session I:	Chair: Prof Suresh Mathivanan (La Trobe University)
9:00 – 9:10	Welcome: Prof Andy Hill (Director, LIMS, La Trobe University)
9:10 – 9:40	Chair: Dr Amy Baxter (La Trobe University) Keynote Speaker: Kanaga Sabapathy (National Cancer Centre, Singapore) Targeting p53
9:40 – 10:05	Chair: Dr Ashwini Chand (ONJCRI) Invited Speaker: Christine Chaffer (Garvan Institute of Medical Research) Modulating cancer cell plasticity to inhibit metastasis
10:05 – 10:30	Morning tea [+trade display]
Morning Session II:	Chairs: Prof John Mariadason (ONJCRI), Dr Diana Stojanovski (Melbourne University)
10:30 – 10:55	Invited Speaker: Lee Wong (Monash University) Mutant histone H3.3 and ATRX loss: drivers of Alternative Lengthening of Telomere in cancers
10:55 – 11:10	Benjamin L. Parker (University of Melbourne) Cross-species screening of exercise-signalling and exercise-mimetics reveals conserved functional phosphorylation and drug interactions
11:10 – 11:25	Thanh Nguyen (Monash University) Identification of a novel function of the mammalian Atg4 family during PINK1/Parkin mitophagy
11:25 – 11:40	Hugh Ma (Monash University) Characterization of the Src-regulated kinome identifies SGK1 as a key mediator of Src-induced transformation
11:40 – 11:55	Ashleigh Solano (University of Melbourne) Mapping DNA target search in the nucleus of a living cell by pair correlation of molecular brightness microscopy
11:55 – 12:10	Joanne Hildebrand (WEHI) Missense mutations in the MLKL brace region lead to lethal neonatal inflammation in mice and are present in high frequency in humans
12:10 – 1:30	Lunch + Poster Session A [+trade display]
Afternoon Session I:	Chairs: Dr Vihandha Wickramasinghe (Peter Mac), Dr Lan Nguyen (Monash University)
1:30 – 1:55	Invited Speaker: Jennifer Zenker (ARMI) Live imaging of microtubule remodelling controlling early mammalian development
1:55 – 2:10	Ashleigh Poh (ONJCRI) Co-targeting macrophages to improve anti-tumour responses to immunotherapy
1:10 – 2:25	Yilin Kang (University of Melbourne) Complex IV defects and oxidative stress underpin neuronal cell death in a neurodegenerative syndrome
2:25 – 2:40	William Smiles (St. Vincent's Institute) Palmitoyl-CoA Regulates Drp1 and Mitochondrial Fission by a Structural Mechanism Shared Amongst Metabolic Enzymes
2:40 – 2:55	Ishara Atukorala (La Trobe University) Extracellular vesicles in cross-species communication, metastasis and cancer progression
2:55 – 3:55	Afternoon tea + Poster Session B [+trade display]
Afternoon Session II:	Chair: A/Prof Jon Oakhill (St Vincent's Institute), Dr Michael Roy (WEHI)
3:55 – 4:20	Invited Speaker: Delphine Merino (ONJCRI) Tracking and targeting aggressive clones in metastatic triple negative breast cancer
4:20 – 4:35	Marta Portela Esteban (La Trobe University) WNT vampirization by glioblastoma promotes JNK/MMPs positive feedback loop to mediate glioma progression and neurodegeneration
4:35 – 4:50	Haiyin Liu (University of Melbourne) Mechanism of cell surface MHC II regulation
4:50 – 5:20	Keynote Speaker: David Komander (WEHI) Ubiquitin signals in mitophagy
5:20 – 5:30	Closing and awards: Dr Doug Fairlie (ONJCRI)

	First Name	Last Name	Title
POSTER SESSION A (12:10 PM - 1:30 PM)			
1	Alex	Anderson	Interrogating the role of hTim8b in human mitochondria: a novel role in Complex IV assembly
2	Bethany	Anderson	Design and application of novel chemical probes to detect cathepsin X activation in oral cancer
3	Amy	Baxter	From apoptotic bodies to necrotic microvesicles: Characterisation of dying cell-derived extracellular vesicles and the use of pharmacological tools for investigating their roles in disease states.
4	Guneet	Bindra	Combating tumour cell migration by using phosphoinositide-targeting innate immune peptides
5	Annalisa	Carli	DCLK1: a novel promoter of gastric cancer progression
6	Lou	Chea	Anterograde trafficking and Golgi sorting of the membrane cargo β -secretase (BACE1) and the production of amyloid peptides in Alzheimer disease
7	Nicole	Chew	Fibroblast growth factor receptor 3 (FGFR3) as a novel therapeutic target in triple negative breast cancer (TNBC)
8	Lap Hing	Chi	Mechanisms of BMP4-mediated regulation of breast cancer metastasis
9	Sai	Chitti	Tumor exosomes: novel regulators of cancer cachexia
10	Tabitha	Cree	Investigating the role of FK506 binding protein 25 in breast cancer cell epithelial to mesenchymal transition
11	Katherine	Davies	Cellular assays using MLKL orthologues to identify structural features important for necroptosis
12	Laura	Edgington-Mitchell	Legumain Induces Oral Cancer Pain by Biased Agonism of Protease-Activated Receptor-2
13	Moritz	Eissmann	IL33 signalling and mast cells as new therapeutic targets against gastric cancer
14	Natasha	Fahey-Lozano	Control of cell competition by protein tyrosine phosphatases in polarity/shape disrupted cells
15	Laura	Fielden	Targeting the Mitochondria During Coxiella burnetii Infection
16	Pamali	Fonseka	Exosomes from N-Myc amplified neuroblastoma cells induce migration and confer chemoresistance to non-N-Myc amplified cells: implications of intra-tumour heterogeneity.
17	Milad	Ghomlaghi	Competitive protein-protein interactions coupled with feedback mechanism generate biphasic responses within the mTORC1/2 signalling network
18	Charlett	Giuliani	Delineating Key Autophagic Markers in Breast Cancer Cell Lines Associated with an Aggressive Phenotype and Autophagic Inhibitor Sensitivity
19	James	Halstead	Mapping the spatial rules of TCR signalling: How to make decisions, one molecule at a time
20	Amy	Hodge	Dendritic cell disassembly and the novel role of apoptotic bodies in antigen presentation
21	Ashfaqu	Hoque	Phosphoproteomic analysis highlights the cellular role of AMPK $\text{P}^{\text{T}}1$ -Ser108 phosphorylation
22	Fiona	Houghton	A role for Rab11a in the homeostasis of the endosome-lysosomal pathway
23	Anne	Huber	Sleeping Beauty mutagenesis screening identifies Dnmt3a as an inflammation associated gastric cancer driver
24	Jennifer	Huynh	Characterising the IL-11 signalling axis in CD4+ T cells during colon cancer development
25	Thomas	Jackson	Understanding the diverse contributions of the mitochondrial Acylglycerol Kinase (AGK) to cellular metabolism in health and disease
26	Taeyoung	Kang	Loss of P^{T} -catenin induces cell cycle arrest and accelerates the secretion of exosomes
27	Adele	Kerjouan	Mapping nuclear architecture using inert fluorescent molecules
28	Jane	Kishore	Targeting Myc in Triple Negative Breast Cancer
29	Hue Mai	La	GILZ-dependent modulation of mTORC1 regulates spermatogonial maintenance
30	Zikou	Liu	Oligomerisation-driven MLKL ubiquitylation during necroptosis
31	Michael	Roy	Harnessing cellular degradation using small molecule Proteolysis-Targeting Chimeras (PROTACs)
32	Suad	Abdirahman	Understanding the role of Interleukin-11 in chemotherapy resistance

	First Name	Last Name	Title
POSTER SESSION B (2:55 PM - 3:55 PM)			
1	Mariah	Alorro	Selective Stat3 inhibition in the tumour microenvironment restricts gastrointestinal tumour growth
2	Yau Chung	Low	Human Embryonic Stem Cell Model of Acylglycerol Kinase (AGK) Mutations in Sengers Syndrome
3	Charlene	Magtoto	ZYG11: keeping cells in shape
4	Akbar	Marzan	Exosomes as mediators of tissue cross-talk in cancer cachexia
5	Nazanin	Mohebbali	Expression, purification and structural characterization of TACAN, a novel mechanosensitive channel
6	Lucas	Newton	How does the red blood cell lose its nucleus?
7	Tien	Nguyen	Investigating the role of heparanase in diabetic-accelerated atherosclerosis
8	Ashley	Ovens	Structural and functional characterisation of the muscle-specific regulatory subunit of AMPK
9	Catherine	Palmer	Super-resolution microscopy of the mammalian mitochondrial translocation machines
10	Maria	Petraki	Inhibiting the Inflammasome: the key to treating Perinatal Brain Injury?
11	Gemma	van Duijneveldt	Understanding the role of Interleukin-11 in pancreatic ductal adenocarcinoma
12	David	Priest	Live cell dynamics of the ubiquitous NF-Y transcription factor
13	Madara	Ratnadiwakara	Novel Mechanism for polycistronic microRNA regulation in self-renewing cells
14	Charlotte	Roelofs	cMyc is a regulator of dormancy in triple negative breast cancer
15	Jascinta	Santavanond	Determining the molecular factors involved in assisted apoptotic cell disassembly
16	Rahul	Sanwlani	ResEcad induces mesenchymal-to-epithelial transition and sensitizes neuroblastoma cells to treatment with doxorubicin
17	Adnan	Shafiq	Comparative protein profiling of shed microvesicles and exosomes-derived from oncogenic H-RAS-mediated EMT
18	Sanjay	Shahi	Understanding the role of Bok in 5-FU resistance in colorectal cancer
19	Bo	Shi	Gasdermin E Does Not Limit Apoptotic Cell Disassembly by Promoting Early Onset of Secondary Necrosis in Jurkat T Cells and THP-1 Monocytes
20	Sungyoung	Shin	Integrative computational modelling reveals PI3K resistance mechanisms and identifies new effective combination therapies
21	Ilknur	Spring	The Regulation of Dendritic Cell Function and Immunity via O-GlcNAcylation
22	Rahul	Srivastava	Regulation of the Uridine Biosynthetic Pathway by the Bcl-2 Family Protein Bok
23	Nikita	Steinohrt	Targeting Apoptosis in Biliary Tract Cancer
24	Rebecca	Stephens	Scribble on the edge: Mapping the spatially resolved interactome of Scribble in disease
25	Sharon	Tran	The Role and Mechanisms of Beclin1 in Gastrointestinal Health and Disease
26	Janson	Tse	miR-21 is a STAT3 driven onco-miR in Gastric cancer
27	Sepideh	Valimehr	High resolution cryo-EM structure of a disease-associated variant of the AAA ATPase p97
28	Bangyan	Xu	Application of activity-based probes to interrogate the contribution of Cathepsin X to dendritic cell function
29	Xue	Yang	Characterization of homotypic and heterotypic complex-specific protein interactions for PEA1 and PEA2 pseudokinases
30	Kelvin	Yip	Investigating the role of the PTEN-PI3K axis in breast cancer development using a novel mouse model
31	Shouxiang	Zhang	A Maleimide-functionalized Tetraphenylethene for Measuring and Imaging Unfolded Proteins in Cells