Sunday 22 September 2024

1000-1600	Pre Congress Workshops
0900-1600	Career Development Forum – Room 203 & 204
1300-1500	Publishing high quality Higher Education Pedagogical Research to enhance your professional visibility (off site)

1400-1900 Registration – Plenary Foyer

1700-1830	Grimwade Medal Public Lecture & Reception
	Session supported by the University of Melbourne
Room	Plenary Hall 2
	Welcome to Country
	Grimwade Opening Remarks and Presentation
Chairs	Ian van Driel & Laura Edgington-Mitchell
Speaker	Brian Kobilka (Nobel Prize Winner), Stanford University USA

1830-1915 Refreshments – Plenary Foyer

Monday 23 September 2024 - Education Day & Indigenous Perspectives in Biomolecular Science Day

0730-1900 **Registration - Plenary Foyer** 0900-0935 **Congress Welcome & Opening** Room Plenary Hall 2 0900-0935 **Congress Welcome & Opening** 0935-1020 Plenary 1 - Artificial Intelligence Plenary Hall 2 Room Chair Andy Hill 0935-1020 What are protein language models learning to do? Sergey Ovchinnikov, Massachusetts Institute of Technology, USA

1020-1030 Session change over

1030-1120	Concurrent session 1 - Keynotes
KS1 - Bioinform	atics, Computational Biology & Omics – Plenary Hall 2
Chairs	Bernie Pope & Megan Maher
1030-1100	Keynote speaker
	PI3K α membrane binding is enhanced by ras and associated with altered membrane properties
	Jane Allison, University of Auckland, New Zealand
1100-1120	Invited speaker
	An integrative approach to transforming endogenous molecules into drugs
	Peter Bond, Bioinformatics Institute (A*STAR), Singapore
KS2 - Molecula	r Basis of Disease – Room 210
Chairs	Justine Mintern & Jerome Le Nours

1030-1100	Keynote speaker - Kunio Yagi Lecture
1000 1100	Gpr43-mediated regulation of eosinophils in asthma
	You-Me Kim, Korea Advanced Institute of Science & Technology, Korea
1100-1120	Invited speaker
	Streptococcus pyogenes pharyngitis elicits systemic and mucosal immune responses against key virulence factors in humans
	Danika Hill, Monash University, Australia
KS3 - Indigenou	s Pathways – Room 211
Chairs	Jordon Lima & Cam Raw
1030-1100	Keynote speaker
	(Re)claiming spaces: the incoming waves of Indigenous peoples, ethics and knowledge in biomolecular research and education
	Phillip Wilcox, Otago University, New Zealand
1100-1110	Invited speaker
	GWAS and beyond and precision medicine for Indigenous populations
	Megan Leask, University of Otago, New Zealand
1110-1120	Invited speaker
	What can we dig up from sedimentary ancient DNA? Co-designing the investigation of ancient environmental DNA in Australia
	Dawn Lewis, University of Adelaide, Australia
KS4 - Microbial	World – Room 212
Chairs	Johnson Mak & Annemarie Laumaea
1030-1100	Keynote speaker
	Evolution of SARS-CoV-2 and beyond
	Kei Sato, University of Tokyo, Japan
1100-1120	Invited speaker
	Defining host factors underpinning life-threatening respiratory viral diseases
	Katherine Kedzierska, University of Melbourne, Australia
KS5 – Education	i – Room 213
Chairs	Yang Mooi Lim & Joon Kim
1030-1100	Keynote speaker
	Generative, dynamic model of a lysosome organelle
	Drew Berry, Walter & Eliza Hall Institute, Australia
1100-1120	Invited speaker
	Student-centered learning in biochemistry and molecular biology – looking back and looking forward in the journal Biochemistry and
	Molecular Biology Education
	Marilee Benore, University of Michigan-Dearborn, USA
KS6 - Biotechno	logy and Synthetic Biology – Room 219
Chairs	Mibel Aguilar & Irene Yarovsky
1030-1100	Keynote speaker
	Chasing the functions of Mycobacterium tuberculosis glycolipids during infection using membrane biophysics and chemical proteiomics
	Shobhna Kapoor, Indian Institute of Technology Bombay, India
	Jisnuson Svasti Lecture
1100-1120	Invited speaker
	Computational lipidomics of metastatic prostate cancers: lipidome changes, altered membrane properties and chemotherapy resistance
	computational influences of metastatic prostate cancers, influence changes, are real methoratic properties and encinetrapy resistance

1120-1150 Morning Tea, Poster Viewing & Exhibition – Exhibition Hall

1150-1240	Concurrent session 2 - Keynotes
KS7 - Biochemi	cal Society Award Talk – Plenary Hall 2
Chairs	James Murphy & Dario Alessi
1150-1220	Keynote speaker
	Kiss and tell. SMCHD1 - from discovery to a novel therapeutic target
	Marnie Blewitt, Walter & Eliza Hall Institute, Australia
1220-1240	Invited speaker
	The HTLV-1c genomic landscape reveals host-virus interactions
	Natasha Jansz, Mater Research, Australia
KS8 - Molecula	r Physiology – Room 210
Chairs	Robyn Murphy & Nimna Perara
1150-1220	Keynote speaker
	Sustaining power: building energy networks in striated muscles
	Brian Glancy, National Institutes of Health, USA
1220-1240	Invited speaker
	Development of robust cell models of ATAD3-linked mitochondrial disease to dissect its function and explore disease pathways

Chairs	Jessica Buck & Jordon Lima
1150-1220	Keynote speaker
	Healthy country: re-writing the book on Australia
	Michael-Shawn Fletcher, University of Melbourne, Australia
1220-1230	Invited speaker
	A One Health approach to the control of zoonotic soil-transmitted helminths in remote Australian Indigenous communities
	Cameron Raw, University of Melbourne, Australia
1230-1240	Invited speaker
	Towards the development of a nematode expression system
	Vanessa Sewell, University of New England, Australia
KS10 - Structu	ral Biology and Biophysics – Room 212
	Session supported by Thermofisher Scientific
Chairs	Glenn King & Rosemary Cater
1150-1220	Keynote speaker
	Structural pharmacology of Nav and Cav channels
	Nieng Yan, Tsinghua University, China
1220-1240	Invited speaker
	Living on thin air: the structural basis of atmospheric hydrogen oxidation
	Rhys Grinter, University of Melbourne, Australia
KS11 – Educat	ion – Room 213
Chairs	Nirma Samarawickrema & Daniel Dries
1150-1220	Keynote speaker
	The cultural politics of Indigenous knowledges and stem education
	Elizabeth McKinley, University of Melbourne, Australia
1220-1238	Invited speaker
	Supporting education focussed academics and the student voice
	Merlin Crossley, University of New South Wales, Australia
1238-1239	Lightning talk
	Exploring trans-Tasman students' biochemical literacy: a focus on building laboratory- and workshop-related self-management skills
	Katherine Fernandez, Monash University, Australia
1239-1240	Lightning talk
	First-year students' perceptions of learning biochemistry from case study workshops
	Nathan Habila, Monash University, Australia
KS12 - Genom	ics, Gene Regulation and Epigenetics – Room 219
Chairs	Adrienne Sullivan & Scott Berry
1150-1220	Keynote speaker
	Establishing chromatin architecture in early development
	Wei Xie, Tsinghua University, China
1220-1240	Invited speaker
	Hijacking developmental plasticity in cancers

1240-1400	Lunch, Lightning Talks, Poster Viewing & Exhibition - Exhibition Hall
1250-1320	Lightning Talks - Theatrette
1300-1400	Poster Presentations

1400-1520	Concurrent session 3 – Symposia & Keynote
SYM1 - Cell Sig	nalling and Metabolism – Signalling of metabolic regulation – Plenary Hall 2
Chairs	Benjamin Parker & Shin-Yee Fung
1400-1418	Invited speaker
	Torin1-sensitive phosphorylation sites on the metabolic regulator AMPK revealed by label-free mass spectrometry
	Jon Oakhill, St Vincent's Institute of Medical Research, Australia
1418-1436	Invited speaker
	Personalised phosphoproteomics
	David James, University of Sydney, Australia
1436-1450	Camkk2: at the interface of nutrient sensing and prostate cancer cell progression
	Ayla Orang, Flinders University, Australia
1450-1504	A1 is induced by pathogen ligands to limit myeloid cell death and nlrp3 inflammasome activation
	Kate Lawlor, Hudson Institute of Medical Research, Australia
1504-1518	Functional phosphoproteomic analysis of insulin signalling in ageing bone
	Mriga Dutt, University of Melbourne, Australia

Chairs	Ho Jeong Kwon & Laura Dagley
1400-1418	Invited speaker
	Optimized dia-ms workflow for host cell proteins (hcp) characterization and quantification in bioreactors and top-down mass spectrometry
	analysis for monoclonal antibody production
	Peter Hoffman, University of South Australia, Australia
1418-1436	Invited speaker
	Mapping the influenza immunopeptidome: defining conserved targets for influenza immunity
	Patricia Illing, Monash University, Australia
1436-1450	Integrate, automate and interrogate proteomics workflows with MD 2.0 Dataset Service Mansi Aggarwal, Mass Dynamics, Australia
1450-1504	Quantitative proteomics in the diagnosis and characterisation of rare genetic diseases
	Liana Semcesen, University of Melbourne, Australia
1504-1518	Shining a light on inflammation
	Cassandra Cianciarulo, La Trobe University, Australia
KS13 - Indigen	bus Perspectives – Cancer and Immunology – Room 211
Chairs	Cameron Raw & Justine Clark
1400-1430	
1400-1430	Keynote speaker Titiro atu ki te taumata o te moana: understanding the broader impact of our biomolecular research
	Kimiora Hēnare, University of Auckland, New Zealand
1430-1445	Invited speaker
1,20 1443	Māu Tēnā Kīwai o te Kete, Māku Tēnei: Applications for precision medicine and third generation sequencing to Māori populations of Te
	Tairāwhiti Aotearoa
	Jordon Lima, University of Otago, New Zealand
1445-1500	Invited Speaker
	Development of in-depth analyses for Māori health in cancer and coronary artery disease
	Helena Abolins-Thompson, University of Otago, New Zealand
1500-1515	Invited Speaker
	Understanding the biomolecular profile of cancer in Indigenous children
	Jessica Buck, Telethon Kids Institute, Australia
SYM3 - Structu	ral Biology and Biophysics - Membrane biophysics and protein structure – Room 212
Chairs	Renae Ryan & Shobhna Kapoor
1400-1418	Invited speaker
	Structural and molecular basis of choline uptake into the brain by FLVCR2
	Rosemary Cater, University of Queensland, Australia
1418-1436	Invited speaker
	Effect of solvent-free environment on the conformations of intrinsically disordered protein
	Kamendra Sharma, Indian Institute of Technology Bombay, India
1436-1450	Combined imaging and multipoint fluorescence correlation spectroscopy for investigating morphogen dynamics in developmental process
	Laura Zoe Kreplin, Monash University, Australia
1450-1504	The crocodile defensin CpoBD13 defines a novel mechanism of host defence peptide antifungal activity through pH-dependent
	phospholipid targeting and membrane disruption
	Marc Kvansakul, La Trobe University, Australia
1504-1518	The molecular details of an ovel phosphorylation dependent interaction between the MRN and SOSS DNA repair complexes
	Liza Cubeddu, Western Sydney University, Australia
SYM4 - Genom	ics, Gene Regulation and Epigenetics - Transcriptional mechanisms – Room 213
Chairs	Tamas Fischer & Stefin Vervoort
1400-1418	Invited speaker
	Connecting transcriptional and post-transcriptional mRNA fate Traude Beilharz, Monash University, Australia
1418-1436	
1410-1430	Invited speaker Comparative cofactor screens reveal the influence of transactivation domains and core promoters on the mechanisms of transcription
	Comparative coractor screens revear the initiance of transactivation domains and core promoters on the mechanisms of transcription Charles Bell, Mater Research, Australia
1436-1450	Transcriptomic analyses revealed anticancer effects of gamma-tocotrienol and delta-tocotrienol in three-dimensional multicellular tumour
50 1750	spheroid model of breast cancer
	Wan Xin Goh, IMU University, Malaysia
1450-1504	Menin inhibition as a novel epigenetic therapy for EZH2-driven diffuse large B-cell lymphoma
50 1504	Rachel Woodhouse, Australian National University, Australia
1504-1518	Extensive DNA methylome rearrangement during early lamprey embryogenesis
104-1010	Allegra Angeloni, Garvan Institute, Australia
	ion - Education Award talks – Room 217
SYM5 – Educat	
SYM5 – Educat Chairs 1400-1418	Kay Colthorpe & Andrew Moorhouse Revolutionizing learning with blast.ar - a mobile app framework for biochemistry education

1418-1436	ASBMB SDR Scientific Education Award
	Development of an open educational resource to improve quantitative literacy in incoming biomedical science students
	Julian Pakay, La Trobe University, Australia
1436-1454	AuPS Education Award
	Navigating the future of higher education: addressing challenges through innovation in technology
	Pushpa Sinnayah, Victoria University, Australia
1454-1512	Supporting our science students - a renewed focus on relationships for student success
	Tracey Kuit, University of Wollongong, Australia
SYM6 - Cell, D	evelopmental and Stem Cell Biology - Autophagy & cell death in organismal homeostasis - Room 218
Chairs	Gemma Kelly & Julian Carosi
1400-1418	Invited Speaker
	Neuronal cell biology of PINK1/Parkin mitophagy
	Michael Lazarou, Walter & Eliza Hall Institute, Australia
1418-1436	Invited Speaker
	Dominant-negative otulin mutation unviels novel mechanisms in inflammatory disease
	Sophia Davidson, Hudson Institute of Medical Research Australia
1436-1450	Specific liberation of polyunsaturated lysophospholipids during BAK-mediated pore formation in isolated mitochondria
	Rachel Uren, Walter & Eliza Hall Institute, Australia
1450-1504	BECLIN1 is essential for gastrointestinal health.
1150 1501	Juliani Juliani, La Trobe University, Australia
1504-1518	CLPB disaggregase dysfunction impacts mitochondrial QC machinery.
1504-1518	
0/0 4- - - - - -	Megan Baker, University of Melbourne, Australia
SYIVI7 - MOIEC	ular Physiology – Molecular physiology of muscle – Room 219
Chairs	Brian Glancy & Robyn Murphy
1400-1418	Invited Speaker
	Compartmentalized glycogen metabolism in skeletal muscle: Influence of the activity of mitochondria, sarcoplasmic reticulum Ca2+
	ATPases, Na+-K+ ATPases, and myosin ATPases
	Joachim Nielsen, University of Southern Denmark Denmark
1418-1436	Invited Speaker
	A single session of high intensity interval training alters calcium homeostasis in human skeletal muscle.
	Aldo Meizoso Huesca, University of Queensland Australia
1436-1450	Tmem161b is required for the maintenance of cardiac rhythm.
	Jessica Briffa, University of Melbourne Australia
1450-1504	Manipulating muscle plasticity to improve dystrophic pathology in mouse models of Duchenne muscular dystrophy
	Wenlan Li, University of Melbourne Australia
1504-1518	Unravelling the role of deubiguitinase ubiguitin-specific-protease-15 in skeletal muscle
	Wayne Du, University of Melbourne Australia
SYM8 - Biotec	Wayne Du, University of Melbourne Australia
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SYM8 - Biotec Chairs	Wayne Du, University of Melbourne Australia
	Wayne Du, University of Melbourne Australia hnology and Synthetic Biology - Synthetic antimicrobials – Room 220
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1520-1550 Afternoon Tea & Poster Viewing – Exhibition Hall

1550-1710	Concurrent session 4 – Symposia
SYM9 - Structu	ural Biology and Biophysics - Machine learning in protein structure prediction – Plenary Hall 2
Chairs	Michael Healy & Isabelle Rouiller
1550-1608	Invited Speaker
	Folding forward: overcoming hurdles in implementing computational structural biology deep learning in Australia
_	Kate Michie, University of New South Wales, Australia

1608 1626	Invited Speaker
1608-1626	Invited Speaker Leveraging structure prediction for protein optimisation workflows
	Joe Kaczmarksi, Australian Natioanl University, Australia
1626-1640	Probing conformational heterogeneity of trpv1: a comparison of state-of-the-art methods in cryo-em
	Miro Astore, Simons Foundation, USA
1640-1654	Understanding and exploiting RECQL4 interactions for targeted cancer prevention
	Courtney Pilcher, Royal Melbourne Institute of Technology, Australia
1654-1708	Peering into the unknown: unveiling a putative archaeal RNA virus (thv)
	Raphael Caballes, University of New South Wales, Australia
SYM10 - Bioin	formatics, Computational Biology and 'Omics – Metabolomics – Room 210
Chairs	Mike Barrett & Simone Rochfort
1550-1608	Invited Speaker
	Hexose homeostasis is essential for the virulence of Leishmania parasites.
	Eleanor Saunders, University of Melbourne, Australia
1608-1626	Invited Speaker
	Arginine metabolism is crucial to polymyxin-dependent resistance in Acinetobacter baumannii
1626 1640	Meiling Han, Monash University, Australia
1626-1640	Spectrum of cellular lipids presented by the four human CD1 family of antigen presenting molecules Adam Shahine, Monash University, Australia
1640-1654	Harnessing multi-omics to explore parasitism at the molecular level
1040-1034	Tao Wang, University of Melbourne, Australia
1654-1708	Biomineralization of short chain organosulfonates: charting metabolic pathways by structural enzymology
	Mihwa Lee, University of Melbourne, Australia
SYM11 - Indig	enous Perspectives - Ethics and applications of molecular biology in Indigenous contexts (panel discussion) – Room 211
Chairs	Jessica Buck & Jordon Lima
1550-1608	Invited Speaker
	Towards precision cancer medicine for aboriginal health equity
1608-1626	Justine Clark, Telethon Kids Institute, Australia Invited Speaker
1000 1020	Ethics and applications of molecular biology in Indigenous contexts: A case study of a collaborative deep phenotyping research project within
	a rural Māori community
	Conor Watene-O'Sullivan, The Moko Foundation, New Zealand
1626-1710	Panel Discussion
SYM12 - Mole	cular Basis of Disease - Aging and cancer – Room 212
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1550-1603	Hitting an iceberg: The impact of generative artificial intelligence (GenAI) on academic integrity in undergraduate science education
	Reece Sophocleous, University of Wollongong, Australia
1603-1616	Molecular biologist AI bots: what works, what doesn't
	Alice Huang, University of Sydney, Australia
1616-1629	Learning as a verb: a framework to engage students with hands-on active learning in physiology
	Christian Moro, Bond University, Australia
1629-1642	Mapping and embedding the core concepts of physiology across the curriculum.
	Kathy Tangalakis, Victoria University, Australia
1642-1655	Professional identity of biomedical science students
	Kay Colthorpe, University of Queensland, Australia
1655-1708	Revolutionizing education: enhancing practical skills and adapting to technological challenges in anatomy and developmental biology.
	Sonja McKeown, Monash University, Australia
SYM15 - Geno	mics, Gene Regulation and Epigenetics – Non-coding genome – Room 218
Chairs	Cecile King & Selene Fernandez Valverde
1550-1608	Invited Speaker
	Confined environments induce noncoding-rna paraspeckle condensates.
	Archa Fox, University of Western Australia, Australia
1608-1626	Invited Speaker
	Using genetics to identify novel Incrna therapeutics for breast cancer
	Juliet French, QIMR Berghofer, Australia
1626-1640	Exploring dysregulated long non-coding RNA expression in animal models of drug addiction
	Sonia Hesam-Shariati, University of New South Wales, Australia
1640-1654	Paternal SARS-CoV-2 infection alters sperm noncoding RNA profiles and increases anxiety in offspring.
	Elizabeth Kleeman, The Florey Institute, Australia
1654-1708	RNA isoform landscape in human ipsc-derived microglia in neurodevelopmental disorder context
	Rugile Matuleviciute, King's College London, United Kingdom
SYM16 - Mole	cular Physiology -Neurophysiology - a focus on new techniques – Room 219
Chairs	Garron Dodd & Gary Housley
1550-1608	Invited Speaker
	Brain-wide exploration of behaviorally relevant astrocyte signaling
	Jun Nagai, Riken Centre for Brain Research, Japan
1608-1626	Invited Speaker
	Using two-photon calcium imaging to probe neural encoding during behaviour
	Lucy Palmer, Florey Institute, Australia
1626-1640	TRPC channels as a druggable target against secondary brain injury expansion
	Georg Von Jonquieres, University of New South Wales, Australia
1640-1654	Biochemical signatures of motor neuron disease and frontotemporal dementia involve a transient protein folding response in the cortex.
	Rebecca San Gil, University of Queensland, Australia
1654-1708	Novel peptide therapeutics for Alzheimer's disease
	Dorothy Wai, Monash University, Australia
SYM17 - Biote	chnology and Synthetic Biology - Nanomaterials for biomedicine and biotechnologies – Room 220
Chairs	chnology and Synthetic Biology - Nanomaterials for biomedicine and biotechnologies – Room 220 Nevena Todorova & Ravi Shukla
Chairs	chnology and Synthetic Biology - Nanomaterials for biomedicine and biotechnologies – Room 220 Nevena Todorova & Ravi Shukla Invited Speaker
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Chairs 1550-1608	chnology and Synthetic Biology - Nanomaterials for biomedicine and biotechnologies – Room 220 Nevena Todorova & Ravi Shukla Invited Speaker Deciphering the gold–nano–bio interface through computational molecular simulations
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1710-1720 Session change over

1720-1805	Plenary 2 - Indigenous Perspectives in Biomolecular Science
	Session supported by CSL
Room	Plenary Hall 2
Chair	Elizabeth McKinley
1720-1805	Developing novel chimeric antigen receptor therapies for glioma
	Misty Jenkins, Walter & Eliza Hall Institute, Australia

1805-1810	Closing remarks on Indigenous Perspectives in Biomolecular Science Day
	Jessica Buck, Jordon Lima, Cameron Raw
1810-2000	Welcome Reception – Exhibition Hall

Tuesday 24 September 2024 - RNA Technology Day

0730-0815	BioNTech Industry Breakfast Session
Room	Meeting Room 217
	Accelerating the clinical translation of local mRNA breakthroughs and technologies into vaccines and therapeutics (advance booking required)
0730-1800	Registration – Plenary Foyer

0830-0915	Plenary 3 - RNA Technology
Room	Plenary Hall 3
Chair	Archa Fox
Speaker	Development of nucleoside-modified mRNA vaccines
	Norbert Pardi, University of Pennsylvania, USA

0915-1000	Plenary 4 - RNA Technology
Room	Plenary Hall 3
	Session supported by mRNA Victoria
Chairs	Traude Beilharz & Salvatore Russello
Panel	The Future of RNA
	Amanda Caples, Victoria's Lead Scientist, Australia
	Catherine Mills, Monash Bioethics Institute, Australia
	Steve Rockman, CSL/Seqiris, Australia
	Claire Borg, Moderna, Australia

1000-1030 Morning Tea & Poster Viewing – Exhibition Hall

1030-1135	Concurrent session 5 - Keynotes	
KS14 - RNA Technology Day – Plenary Hall 3		
Chairs	Claire Borg & Tim Mercer	
1030-1100	Keynote Speaker	
	Studying RNA structures to understand RNA function Yue Wan, Genome Institute of Singapore, Singapore	
	Takashi Murachi Lecture	
1100-1118	Invited Speaker	
	Expanding neutralizing antibody protection in mice with a polyvalent SARS-CoV-2 mRNA vaccine expressing three linked-RBD domains from	
	different viral variants	
	Damian Purcell, University of Melbourne, Australia	
1118-1132	High-accuracy RNA integrity definition for unbiased transcriptome comparisons with INDEGRA	
	Nikolay Shirokikh, Australian National University, Australia	
KS15 - Molecu	ılar Physiology Short Talks – Room 210	
Chairs	Paul Gregorevic & Noni Frankenberg	
1030-1040	Myocardial protein expression correlates of diastolic function in physiologic & pathologic cardiac conditions	
	Johannes Janssens, Cedars-Sinai Medical Center, USA	
1040-1050	Maternal diet high in linoleic acid alters renal branching morphogenesis and mTOR/AKT signaling genes.	
	Deanne Hryciw, Griffith University, Australia	
1050-1100	Phosphoproteomics-directed manipulation reveals SEC22B as a hepatic signaling node governing metabolic actions of glucagon.	
	Yuqin Wu, Monash University, Australia	
1100-1110		
1110-1120	Complex IV - a new understanding in muscle wasting diseases.	
	Ryan Bagaric, Victoria University, Australia	
1120-1130	Characterization of novel inhibitors for triple negative breast cancer: four needles in a haystack	
	Jo-Anne de la Mare, Rhodes University, South Africa	
KS16 - Cell Sig	nalling and Metabolism – Room 211	
KS16 - Cell Sig Chairs		

1030-1100	Keynote Speaker
1000 1100	Protein kinase c unbalanced: dysregulated signalling in cancer vs Alzheimer's disease.
	Alexandra Newton, University of California, USA
1100-1118	Invited Speaker
	PPTC7 antagonizes mitophagy by promoting BNIP3 and NIX degradation via SCFFBXL4.
	Julia Pagan, University of Queensland, Australia
1118-1132	Dissecting the cellular effects of psychedelics on serotonin receptor signalling
	Gregory Redpath, University of New South Wales, Australia
KS17 - Structu	ral Biology and Biophysics – Room 212
Chairs	Brett Collins Alisa Glukhova
1030-1100	Keynote Speaker
	The role of protein dynamics in G protein coupled receptor signalling.
	Brian Kobilka, Stanford University, USA
1100-1118	Invited Speaker
	Structural insights into targeting class B1 GPCRs for metabolic diseases
	Denise Wootten, Monash University, Australia
1118-1132	Mechanical activation opens a lipid-lined pore in OSCA ion channels.
	Charles Cox, Victor Chang Cardiac Research Institute, Australia
KS18 - Genom	ics, Gene Regulation and Epigenetics – Room 213
Chairs	Rhys Allan & Melanie Eckersley-Maslin
1030-1100	Keynote Speaker
	Rules of engagement for mitotic chromosome folding machines
	Job Dekker, University of Massachusetts, USA
1100-1118	Job Dekker, University of Massachusetts, USA Invited Speaker
1100-1118	
1100-1118	Invited Speaker
	Invited Speaker Transposable elements reorganise the 3D genome structure in CDK4/6 inhibitors resistant breast cancer.
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1135-1145 Session change over

1145-1250	Concurrent session 6 - Keynotes
KS20 - RNA Technology Day – Plenary Hall 3	
Chairs	Colin Pouton & Chun-Xia Zhao
1145-1215	Keynote Speaker Innovation in mRNA technology for public health interventions: How meaningful is this for the Africa vaccine manufacturing vision 2040? Petro Terblanche, Afrigen Biologics & Vaccines, South Africa
1215-1233	Invited Speaker Transient inhibition of type I interferon enhances CD8+ T cell stemness and vaccine protection. Joanna Groom, Walter & Eliza Hall Institute, Australia
1233-1247	The landscape of on-target, off-target, and collateral activity of various CRISPR-Cas13 orthologs in human cells Honglin Chen, Peter MacCallum Cancer Centre, Australia
KS21 - Precisio	n Medicine – Room 210
	Session supported by University of Queensland
Chairs	Dominic Ng & Kate Sutherland
1145-1215	Keynote Speaker Singapore national precision medicine strategy John Chambers, Nanyang Technological University, Singapore
1215-1229	Help or hindrance: A common gain-of-function MLKL polymorphism. Sarah Garnish, Walter & Eliza Hall Institute, Australia
1229-1243	Development of a precision oncology program focused on a novel therapeutic target in triple negative breast cancer. Anderly Chüeh, Monash Biomedicine Discovery Institute, Australia
KS22 - Cell, De	velopmental and Stem Cell Biology – Room 211
Chairs	Leonie Quinn & Sharad Kumar
1145-1215	Keynote Speaker Deciphering stem cell roles in driving gastric cancer. Nick Barker, A*STAR IMCB, Singapore

1215-1233	Invited Speaker
	Plasticity of stem cells in intestinal regeneration and cancer
	Helen Abud, Monash University, Australia
1233-1247	DNA topoisomerase III Alpha (top3a) is essential for Vegfc-driven lymphatic endothelial cell proliferation in zebrafish.
0	Kazuhide Okuda, La Trobe University, Australia
KS23 - Molecu	lar Basis of Disease – Room 212
Chairs	Mark Schembri & Dimitra Chatzileontiadou
1145-1215	Keynote Speaker
	Novel biomimetic cellular nanoparticles (CNP) for the treatment and prevention of antibiotic-resistant bacterial infections and sepsis
	Victor Nizet, University of California San Diego, USA
1215-1233	Invited Speaker
	Permanent tenancy or a bad case of squatting? - Tolerance to Haemophilus influenzae infection in human epithelial cells
	Ulrike Kappler, University of Queensland, Australia
1233-1247	Regulation of the composition of bacterial membrane vesicles and their ability to mediate pathogenesis and antimicrobial resistance
	Maria Kaparakis-Liaskos, University of Melbourne, Australia
KS24 - Molecu	ılar Physiology – Room 213
Chairs	Adam Rose & Severine Lamon
1145-1215	Keynote Speaker
	Genome-scale models of transcriptional metabolic wiring and rewiring
	Marian Walhout, University of Massachusetts, USA
1215-1233	Invited Speaker
	Protecting the nervous system across generations with the maternal diet
	Roger Pocock, Monash University, Australia
1233-1247	Insulin increases blood flow in the cortex and hippocampus in healthy rats and these effects are lost after 14 days of high fat diet intake.
	Dino Premilovac, University of Tasmania, Australia
KS25 - G.N. Ra	imachandran Lecture – Room 220
Chairs	Sheila Nathan & Terry Piva
1145-1225	Design of efficacious, thermotolerant, viral vaccine formulations
	Raghavan Varadarajan, Indian Institute of Science, India
1225-1245	Structural and functional analyses of Burkholderia pseduomallei BPSL1038 revelas a novel Cas-2/VapD sub-family
1225-1245	Structural and functional analyses of burkholden a pseudomailer bi SE1050 revelas a novel cas-27 vapo sub-laininy

1250-1430	Lunch, Lightning Talks, Poster Viewing, Exhibition – Exhibition Hall
1300-1330	Lightning Talks – Theatrette
1315-1415	Lunchtime Technical Workshops
Workshop 1 - F	rotein structure prediction and applications – Room 210
Chair	Martin Stone
Speakers	Michael Healy, University of Queensland, Australia
	Janesha Maddumage, La Trobe University, Australia
Workshop 2 - S	ynchrotron Science – Room 211
	Session supported by ANTSO
Chair	Alan Riboldi-Tunnicliffe
Speakers	Christopher Szeto, ANSTO, Australia
·	Annmaree Warrender, ANSTO, Australia
Workshop 3 - T	he Future of Publishing – Room 212
	Session supported by Portland Press
Chairs	Alisa Glukhova & Merlin Crossley
Speakers	Benjamin Parker, University of Melbourne, Australia
	Pamela Silver, Harvard University, USA

1430-1550	Concurrent session 7 - Symposia	
SYM18 - RNA T	SYM18 - RNA Technology Day – RNA biology – Plenary Hall 3	
Chairs	Irina Voigneau & Thomas Preiss	
1430-1448	Invited Speaker	
	Exploring microbial dark matter for RNA biotechnology	
	Gavin Knott, Monash University, Australia	
1448-1506	Invited Speaker	
	Targeting long non-coding RNAs as new therapeutic approach in oncology	
	Sarah Diermeier, University of Otago, New Zealand	
1506-1520	Targeting RNA using fragment-based drug screening	
	Brooke Kwai, Monash Institute of Pharmaceutical Sciences, Australia	
1520-1534	Production of fully functional multimeric RNA aptamers in E. coli	
	Tayyaba Younas, Monash University, Australia	

1534-1548	Characterisation and engineering of thermophilic RNA ligases
SVM10 Call	Joanna Hicks, University of Waikato, New Zealand Signalling and Metabolism - Metabolism in health and disease – Room 210
Chairs	Kyle Hoehn & Nigel Turner
1430-1448	Invited Speaker Dimethyl fumarate is a translational candidate for the treatment of Duchenne muscular dystrophy. Emma Rybalka, Victoria University, Australia
1448-1506	Invited Speaker Metabolic tug-of-war: deciphering the role of glucagon and insulin in regulating postprandial glucose metabolism. Clinton Bruce, Deakin University, Australia
1506-1520	Leveraging cell signalling in nutrient stressed environments as a strategy to regulate cancer cell proliferation Janni Petersen, Flinders University, Australia
1520-1534	Human plasma is enriched in mitochondrial proteins following an acute bout of endurance exercise. Glenn Wadley, Deakin University, Australia
1534-1548	Branched-chain α-keto acids impair insulin secretion via redirection of glucose metabolism to LDHA-lactate axis. Huige Lin, Hong Kong Polytechnic University, Hong Kong
	ecular Basis of Disease – Vaccines – Room 211
Chairs	Erin Brazel & Mark Walker
1430-1448	Invited Speaker Combo#5 mRNA group A Streptococcus vaccine elicits robust B and T cell immune responses in preclinical models. Gabrielle Belz, University of Queensland, Australia
1448-1506	Invited Speaker A novel human lymph node explant model to determine the mechanism of action of viral adjuvanted protein- and RNA- vaccines. Tony Cunningham, The Westmead Institute for Medical Research, Australia
1506-1520	Human immunodeficiency virus-1 (HIV-1) neutralisation profiles in HIV-1 viremia suppressed Nepalese individuals. Anurag Adhikari, La Trobe University, Australia
1520-1534	Visualizing host pathogen interactions using electron cryotomography. Manasi Arcot Anil Kumar, University of Melbourne, Australia
1534-1548	SARS-CoV-2 induces TGF-β signalling via Spike. Nicholas Gracie, University of Sydney, Australia
SYM21 - Struc	stural Biology and Biophysics - Structure-guided drug design – Room 212
Chairs	Joon Kim & Michael Parker
1430-1448	Invited Speaker Exploiting cancer metabolism: a structural focus on malic enzyme inhibitors Ben Krinkel, University of Auckland, New Zealand
1448-1506	Invited Speaker Structure/function analyses of the thrombopoietin receptor. Nadia Kershaw, Walter & Eliza Hall Institute, Australia
1506-1520	Mechanistic enzymology of carbon flux regulation in Mycobacterium tuberculosis Ivanhoe Leung, University of Melbourne, Australia
1520-1534	Bivalent cyclic peptides display unparalleled specificity as BET-bromodomain inhibitors. Joel Mackay, University of Sydney, Australia
1534-1548	Structural insights into self-compartmentilization of C-Terminal protease CTP-A from Helicobacter pylori Shannon Wing Ngor Au Chinese, University of Hong Kong, China
SYM22 - Geno	omics, Gene Regulation and Epigenetics – Developmental gene regulation and enhancers – Room 213
Chairs	Wei Xie & Emily Wong
1430-1448	Invited Speaker A symphony of regulatory factors at the Nanog locus during gene bursting in stem cells Mathias Francois, The Centenary Institute, Australia
1448-1506	Invited Speaker A dynamically regulated enhancer landscape driving axial elongation in the mouse Edwina McGlinn, Monash University, Australia
1506-1520	In situ mapping of inner ear primary afferent populations Lily Pearson, University of New South Wales, Australia
1520-1534	Cofactor-mediated sensitivity to chromatin can drive transcription factor activity. Luke Isbel, South Australian immunoGenomics Cancer Institute, Australia
1534-1548	Investigation of a novel fertility factor Wei Cao, Monash University, Australia
	formatics, Computational Biology and 'Omics - Single cell 'omics – Room 217
Chairs	Matt Lewsey & Rory Bowden
1430-1448	Invited Speaker Multi-omic characterisation of lymphocyte heterogeneity during hypertension Maria Jelinic, La Trobe University, Australia
1448-1506	Invited Speaker Evolution of haematopoiesis: regulation of gene expression in vertebrate blood cells Carolyn de Graaf, Walter & Eliza Hall Institute, Australia
1506-1520	Single-cell RNA-seq reveals candidate synergistic treatments for the chemoprevention of hereditary diffuse gastric cancer. Kieran Redpath, University of Otago, New Zealand
1520-1534	Unveiling transcriptional heterogeneity in neuroendocrine prostate cancer through single-cell technology Rosalia Quezada Urban, Monash Biomedicine Discovery Institute, Australia
1534-1548	Single-cell omics and spatial mapping reveals sex-specific mechanisms governing cardiac fibrosis and hypertrophy. Gabriella Farrugia, Baker Heart & Diabetes Institute, Australia
SYM24 - Micro	obial World - Intra dynamics of microbes and their host – Room 218

Chairs	Gilda Tachedijan & Victor Nizet
1430-1448	Invited Speaker
	Highly secreted tryptophanyl-trna synthetase as a theranostic target for hypercytokinemic sever sepsis.
	Mirim Jin, Gachon University South Korea
1448-1506	Invited Speaker
	Elucidation of the virus-stat interface
	Gregory Moseley, Monash University, Australia
1506-1520	Voltage-gated T-type calcium channel blockers reduce apoptotic body mediated SARS-CoV-2 cell-to-cell spread and subsequent cytokine
	storm.
	Kha Phan, La Trobe University, Australia
1520-1534	Host directed therapy to improve anti-parasitic immunity in volunteers experimentally infected with blood stage malaria.
	Damian Oyong, Burnet Institute, Australia
1534-1548	The isolation and characterisation of a Faecalibacterium prausnitzii lytic phage
	Mikaela Whitty, La Trobe University, Australia
SYM25 - Biote	chnology and Synthetic Biology - Engineered living materials – Room 219
Chairs	Bini Zhou & Melissa Call
1430-1448	Invited Speaker
	Engineering vascularized tissues with spontaneous orthogonal cell alignment mimicking native blood vessels
	Andrea O'Connor, University of Melbourne, Australia
1448-1506	Invited Speaker
	Enzyme action for the enhancement of 3D bioprinted engineered living materials
	Mark Shannon, Australian National University, Australia
1506-1520	Bio-based porphyrin synthesis and its photoactive application using engineered Corynebacterium glutamicum
	Sung Ok Han, Korea University, South Korea
1520-1534	Triglyceride-tethered membrane lipase sensor
	Samara Bridge, University of Technology Sydney, Australia
1534-1548	High yield vesicle packaged recombinant protein production from E. coli.
	Dan Mulvihill, University of Kent, United Kingdom
SYM26 - Cell,	Developmental and Stem Cell Biology - Cell & developmental biology in disease – Room 220
Chairs	Hozumi Motohashi & Michael Samuel
1430-1448	Invited Speaker
	The keap1-nrf2 pathway and primary cilia – new partners in lung cancer transformation
	Kate Sutherland, Walter & Eliza Hall Institute, Australia
1448-1506	Invited Speaker
	Targeting lipid metabolism in leukaemic stem cells to induce ferroptosis as a therapeutic strategy for acute myeloid leukaemia
	Claudia Bruedigam, QIMR Berghofer, Australia
1506-1520	The correct allocation and differentiation of endoderm populations during gastrulation is a critical precursor of heart formation.
	Ruth Arkell, Australian National University, Australia
1520-1534	Receptor guanylyl cyclase C and cGMP: gut reactions
	Sandhya Visweswariah, Indian Institute of Science, India
1534-1548	Tumour tissue engineering: modelling cancer with biomaterial-based platforms

1550-1620 Afternoon Tea & Poster Viewing - Exhibition Hall

1620-1750 Concurrent session 8 - Symposia

SYM27 - RNA	Technology Day - mRNA applications and challenges – Plenary Hall 3	
Chairs	Norbert Pardi & Natalie Trevaskis	
1620-1638	Invited Speaker	
	Precise delivery of mRNA therapeutics	
	Angus Johnston, Monash University, Australia	
1638-1656	Invited Speaker	
	Leveraging mRNA and lipid nanoparticle technology to develop a cure for HIV	
	Paula Cevaal, University of Melbourne, Australia	
1656-1710	Precise gene editing in hematopoetic stem cells using RNA-based delivery.	
	Andrew Deans, St. Vincent's Institute of Medical Research, Australia	
1710-1724	Repurposing the type I-D CRISPR-cas system into a programmable gene silencing tool	
	Shaharn Cameron, University of Otago, New Zealand	
1724-1738	Genetic and epigenetic routes to building resilience in grapevine.	
	Annabel Whibley, Bragato Research Institute, New Zealand	
SYM28 - Bioir	nformatics, Computational Biology and 'Omics – Systems biology - Room 210	
Chairs	Lan Nguyen & Marc Wilkins	
1620-1638	Invited Speaker	
	Deciphering the basis of cell type specificity and regulatory transitions	
	Emily Wong, Victor Chang Cancer Research Institute, Australia	
1638-1656	Invited Speaker	
	Strain dynamics of contaminating bacteria modulate the yield of ethanol biorefineries.	
	Simone Li, Monash University, Australia	
1656-1710	DDMut-PPI: predicting effects of mutations on protein-protein interactions using graph-based deep learning.	
	Yunzhuo Zhou, University of Queensland, Australia	

1710-1724	Optimizing gene expression representation for enhanced drug response prediction through data augmentation Diyuan Lu, Helmholtz Center, Germany
1724-1738	Tools and workflows for the exploration and visualization of massive protein sequence space
SVM29 - Mole	John Chen, Australian National University, Australia cular Basis of Disease - Metabolic disease – Room 211
Chairs	
	Kristin Brown & Enyuan Cao
1620-1638	Invited Speaker Exploiting adipose tissue eosinophils to combat obesity Kate Quinlan, University of New South Wales, Australia
1638-1656	Invited Speaker Hypothalamic neurofibrosis: a new player in the fight against metabolic disease Garron Dodd, University of Melbourne, Australia
1656-1710	Dihydroceramide desaturase: the central gatekeeper of sphingolipid biology with links to disease Melissa Pitman, University of Adelaide, Australia
1710-1724	ASBMB Fred Collins Award Loss of cortactin impedes the release of extracellular vesicles and prevents cancer associated cachexia Sai Vara Prasad Chitti, La Trobe University, Australia
1724-1738	Reduced protein import via TIM23 sort drives disease pathology in TIMMzo50-associated mitochondrial disease. Jordan Crameri, University of Melbourne, Australia
SYM30 - Struct	tural Biology and Biophysics - Single molecule biophysics – Room 212
Chairs	Toby Bell & Senthil Arumugam
1620-1638	Invited Speaker Rushing for a spatial-temporal mapping of the intracellular trafficking and secretase processing of amyloid precursor protein and amyloid- beta production Lou Fourriere-Chea, University of Melbourne, Australia
1638-1656	Invited Speaker Nanoscale biomolecular condensates dynamically cluster synaptic vesicles at the presynapse Frederic Meunier, University of Queensland, Australia
1656-1710	Real-time single-molecule observation of chaperone-assisted protein folding Nicholas Marzano, University of Wollongong, Australia
1710-1724	The perfringolysin O pore exhibits a hierarchical subunit stoichiometry. Meijun Liu, Shanghai Jiao Tong University, China
1724-1738	Single molecule microscopy of a pore forming protein and its co-toxin. Martin Do, University of New South Wales, Australia
SYM31- Genor	mics, Gene Regulation and Epigenetics - Chromatin & epigenetics – Room 213
Chairs	Phillippa Taberlay & Luke Isbel
1620-1638	Invited Speaker Histone FRET microscopy of live cell heterochromatin architecture Elizabeth Hinde, University of Melbourne, Australia
1638-1656	Invited Speaker GATA3 drives lineage specification in human gastrulation through epigenetic remodelling. Adrienne Sullivan, University of Adelaide, Australia
1656-1710	Uncharted cs: mapping methylation-sensitive gata motifs unveils a novel haematopoetic regulatory mechanism. Sonia Goozee, University of New South Wales, Australia
1710-1724	Molecular basis of epigenetic silencing by human MORC2 Shabih Shakeel, Walter & Eliza Hall Institute, Australia
1724-1738	An atlas of the human ageing epigenome and exercise rejuvenation Nir Eynon, Australian Regenerative Medicine Institute, Australia
SYM32 - Mole	cular Physiology - Cardiac physiology- Room 217
Chairs	Livia Hool & Lea Delbridge
1620-1638	Invited Speaker Cardiotoxicity induced by breast cancer therapy: mechanism and potential mitigation. Wally Thomas, University of Queensland, Australia
1638-1656	Invited Speaker The cardiomyopathy-associated ALPK3 regulates a proteostasis network at the sarcomeric m-band. James Mcnamara, Murdoch Childrens Research Institute, Australia
1656-1710	Dissecting the role of Hopx variants in cardiac remodelling and disease Amy Hanna, University of Queensland, Australia
1710-1724	Regulation of cardiac growth and signalling by the protein phosphatase PP2A-B55alpha Kate Weeks, University of Melbourne, Australia
1724-1738	Novel role of WDR62 in the regulation of postnatal heart function Slade Du Randt, University of Queensland, Australia
SYM33 - Cell S	Signalling and Metabolism - Kinase based signal transduction – Room 218
Chairs	Dario Alessi & Isabelle Lucet
1620-1638	
	Invited Speaker CDKL5 kinase in neuronal development and function Sila Ultanir, Francis Crick Institute, United Kingdom
1638-1656	CDKL5 kinase in neuronal development and function Sila Ultanir, Francis Crick Institute, United Kingdom Invited Speaker Shining a light on dark and gloomy kinases
1638-1656 1656-1710	CDKL5 kinase in neuronal development and function Sila Ultanir, Francis Crick Institute, United Kingdom Invited Speaker Shining a light on dark and gloomy kinases James Murphy, Walter & Eliza Hall Institute, Australia pH-dependent phase separation of kinases modifies signalling output of stress-induced intracellular pathways.
	CDKL5 kinase in neuronal development and function Sila Ultanir, Francis Crick Institute, United Kingdom Invited Speaker Shining a light on dark and gloomy kinases James Murphy, Walter & Eliza Hall Institute, Australia

1724-1738	Illuminating new calcium-dependant mechanisms of kinase regulation
	Chris Horne, Walter & Eliza Hall Institute, Australia
SYM34 - Micro	obial World - One health: challenges and solutions – Room 219
Chairs	Michelle Wille & Prasad Paradkar
1620-1638	Invited Speaker
	Emergence of Japanese encephalitis virus (JEV) in mainland Australia in 2021-2022: a One Health approach to JEV phylogenomics
	David Williams, CSIRO, Australia
1638-1656	Invited Speaker
	One Health challenges and strengths in remote Australian Indigenous communities
	Cameron Raw, University of Melbourne, Australia
1656-1710	Characterization of highly pathogenic avian influenza A (H5N1) viruses isolated from cats in South Korea
	Kyungmoon Lee, Seoul National University, South Korea
1710-1724	Investigating the functional diversity of different Hendra virus genotypes
	Melanie Tripp, Monash University, Australia
1724-1738	Decoding the effector-mediated dialogue between coxiella burnetii and its host during infection
	Genevieve Samuel, Monash University, Australia
SYM35 - Cell,	Developmental and Stem Cell Biology - Non-mammalian models of development- Room 220
Chairs	Ben Hogan & Kieran Harvey
1620-1638	Invited Speaker
	Controlling germ cell fate through extracellular signaling
	Roger Pocock, Monash University, Australia
1638-1656	Invited Speaker
	Regulation of muscle stem cell dynamics: Lessons from the zebrafish
	Avnika Ruparelia, University of Melbourne, Australia
1656-1710	Loss of the transcriptional repressor Hfp promotes stem cell niche escape.
	Teresa Bonello, Australian National University, Australia
1710-1724	Zyxin regulates the drosophila melanogaster hippo signalling pathway by recruiting ajuba and warts to adherens and basal spot junctions.
	Harmanjeet Singh, Monash University, Australia
1724-1738	Cic non-autonomously promotes neural stem cell differentiation as a transcriptional repressor and activator in the cortex glial niche.
1/24-1/30	

1750-1755 Session change over

1755-1840	Plenary 5 - Nobel Awardee Special
	Session supported by New England Biolab
Room	Plenary Hall 2
Chairs	Erinna Lee & Marilyn Anderson
Speaker	Path to a Nobel Prize Sir Richard Roberts, New England Biolab, USA
1845-2200	IUBMB General Assembly – Room 218

Wednesday 25 September 2024 - Gene Editing Day

0730-1800 Registration – Plenary Foyer

0830-0915	Plenary 6 - Gene Editing
Room	Plenary Hall 3
Chair	Peter Waterhouse
Speaker	Precision genome editing for future agriculture
	Caixia Gao, Chinese Academy of Sciences, China

0915-0925 Session change over

0925-1030	Concurrent Session 9 – Keynotes, Symposia and SIGs
KS26 - Cell Sign	alling and Metabolism – Plenary Hall 3
	Session supported by Metabolomics Australia
Chairs	Peter Mace & Kate Quinlan

0925-0955	Keynote Speaker
	Metabolic regulation of cell state
0955-1013	Heather Christofk, University of California, USA Invited Speaker
0933-1013	Why is exercise medicine? Role of exercise extracellular vesicles in prevention of disease Mark Febbraio, Monash University, Australia
1013-1027	TLR4 endocytosis is dissociable from type i IFN expression but requires TLR4 activity and ubiquitination machinery.
KS27 - Biotech	Antje Blumenthal, University of Queensland, Australia
NJ27 DIOTECT	
	Session supported by CSL
Chairs	Wayne Patrick & Colin Jackson
0925-0955	Keynote Speaker Some thoughts on machine learning-based protein engineering Jennifer Listgarten, University of California, USA
0955-1013	Invited Speaker
	Ruggedness in protein evolution and design
1013-1027	Matthew Spence, Australian National University, Australia Molecular insights into high-frequency electromagnetic field effects on cell membranes
1015 1027	Nevena Todorova, Royal Melbourne Institute of Technology, Australia
KS28 - Gene E	diting Day – Room 211
Chairs	Gaetan Burgio & Karen Massel
0925-0955	Keynote Speaker
	Development and characterization of precision genome editing tools.
0955-1013	Alexis Komor, University of California, USA Invited Speaker
0955-1013	Using advanced CRISPR techniques in vivo – the key to identifying tumour drivers and therapeutic vulnerabilities
1013-1027	Marco Herold, Olivia Newton John Cancer Research Institute, Australia Manipulation of mixed-linkage (1,3;1,4)-β-glucan in barley using gene editing technology
	Guillermo Garcia-Gimenez, La Trobe University, Australia
SYM36 - Prote	in homeostasis and metabolism in human health and disease – Room 212
Chairs	Guillaume Thibault & Eun-kyung Jo
0925-0945	Invited Speaker
	Homeostatic mechanisms of the 26S proteasome amidst diverse cellular stress challenges Min Jae Lee, Seoul National University, South Korea
0945-1005	Invited Speaker
	Role of arginine methylation on metabolic dysfunction-associated steatotic liver disease Seung-Hoi Koo, Korea University, South Korea
1005-1025	Invited Speaker The molecular link between autophagy, stress granules, and neurodegenerative disease
	Jin-a Lee, Hannam University, South Korea
KS29 - Bioinfo	rmatics, Computational Biology and 'Omics – Room 213
Chairs	Darren Creek & Simone Rochfort
0925-0955	Keynote Speaker
	Metabolic perturbation of the immune system by Leishmania parasites Michael Barrett, University of Glasgow, UK
0955-1013	Invited Speaker
	Proteome profiling of macrophage reprogramming upon dead cell clearance Maria Tanzer, Walter & Eliza Hall Institute, Australia
1013-1027	Leveraging Al in predicting protease-specific substrate cleavage sites
	Fuyi Li, University of Adelaide, Australia
ASBIMB Specia	al Interest Groups – Room 217
Chairs	Sacha Pulsford, Laura Osellame & Alison Roennfeldt
0925-0935	Yeast SIG
	Fighting ectoparasites with yeast: developing and deploying a glyco-relevant livestock vaccine against Flystrike Ed Kerr, CSIRO, Australia
0935-0945	Adelaide Protein Group
	Microbial progenitors of protein aggregation diseases and infectious aetiology of dementia
0045 0055	Ibrahim Javed, University of South Australia, Australia
0945-0955	Perth Protein Group The mystery of U-to-C RNA editing proteins in plants
	Farley Kwok Van Der Giezen, University of Western Australia, Australia
0955-1005	Canberra Protein Group
	Thermodynamic adaptations guide the evolution of ligand specificity Rosemary Georgelin, Australian National University, Australia
1005-1015	Melbourne Protein Group
	MORC2 phosphorylation fine tunes its DNA compaction activity Winnie Tan, Walter & Eliza Hall Institute, Australia
1015-1025	Queensland Protein Group & Sydney Protein Group
	Development of a generalisable tryptophan-optimised quenchbody biosensor based on a synthetic nanobody library Jordan Cater, University of Wollongong, Australia
KS30 - Chairs	Selection: DNA Restriction and Gene Editing – Room 219

Chair	Nick Hoogenraad
0925-0955	Keynote Speaker The many roles of DNA methylation in bacteria
	Sir Richard Roberts, New England Biolabs, USA
0955-1020	Keynote Speaker
	Boosting fetal globin expression via epigenome editing
	Merlin Crossley, University of New South Wales, Australia

1030-1100 Morning Tea & Poster Viewing - Exhibition Hall

1100-1210	Concurrent Session 10 – Keynote & Symposia
KS31 - Gene E	diting Day – Plenary Hall 3
Chairs	Gavin Knott & Cyntia Taveneau
1100-1130	FAOBMB Lecture
	Defence and counter-defence strategies in the phage-bacterium arms race.
	Peter Fineran, University of Otago, New Zealand
1130-1148	Invited Speaker
	Predicting phage-host interactions
1148-1204	Robert Edwards, University of Western Australia, Australia Viral-induced genome editing in plants using miniature CRISPR genome editors
1140-1204	Zheng Gong, University of Queensland, Australia
SYM37 - Bioin	formatics, Computational Biology and 'Omics - Molecular dynamics simulation of biomolecules – Room 210
Chairs	Peter Bond & Megan O'Mara
1100-1118	Invited Speaker
	Understanding sterol-selectivity in sponge-like aggregates of the antifungal drug amphotericin B in physiologically relevant conditions
	Evelyne Deplazes, University of Queensland, Australia
1118-1136	Invited Symposia Speaker
	The role of the STAS domain in chloride ion binding and transport in SLC26A9: Insights from molecular dynamics simulations
4496 4155	Satoshi Omori, Nagahama Institute of Bioscience and Technology, Japan
1136-1150	Interfacial specific ion effects of charged protocell membranes & implications for stability of prebiotic vesicles: a molecular dynamic study. Joshua Brown, CSIRO, Australia
1150-1204	Engineering aptamers for biomedical application using biomolecular simulations.
1100 110 .	Sérgio F. Sousa, University Porto, Portugal
SYM38 - Micro	bial World - Environmental microbiology – Room 211
Chairs	Ian Paulsen & Rachael Lappan
1100-1118	Invited Speaker
	New frameworks for understanding microbial communities.
	Jen Wood, La Trobe University, Australia
1118-1136	Invited Speaker
	Does plastic pollution pose a problem to marine microbes?
	Sasha Tetu, Macquarie University, Australia
1136-1150	Ethical bioprospecting for phages across Australian landscapes
1150-1204	Trevor Lithgow, Monash University, Australia Genetic elements and defense systems drive diversification and evolution in asgard archaea.
1150-1204	Luis Valentin-Alvarado, University of California Berkeley, USA
SYM39 - Cell,	Developmental and Stem Cell Biology – Stem cells and organoids – Room 212
Chairs	Nick Barker & Helen Abud
1100-1118	Invited Speaker
	Modelling subtypes of age- related macular degeneration using patient iPSCs
1110 1120	Alice Pébay, University of Melbourne, Australia
1118-1136	Invited Speaker
	Cancer stem cells: how to target a moving target. Dustin Flanagan, Monash University, Australia
1136-1150	Examining the role of vascular endothelial cells in efferocytosis
1130-1130	Amy Baxter, La Trobe University, Australia
1150-1204	Toward brain cancer organoid-informed precision medicine for glioblastoma
0/0.0	Claire Storey, Walter & Eliza Hall Institute, Australia
SYM40 - Geno	mics, Gene Regulation and Epigenetic - Nuclear organisation – Room 213
Chairs	Job Dekker & Joanna Achinger-Kawecka
1100-1118	Invited Speaker
	Exploring the genome of immune memory in four dimensions
1110 1120	Timothy Johanson, Walter & Eliza Hall Institute, Australia
1118-1136	Invited Speaker
	Identification of pan-cancer mutational hotspots at persistent CTCF binding sites
1136-1150	Amanda Khoury, Garvan Institute, Australia Heterochromatin structure supports euchromatic gene transcription to prevent premature immune ageing.
1120-1120	Christine Keenan, University of Melbourne, Australia
1150-1204	3D perspectives on spatiotemporal Hox gene expression in the native onychophoran, peripatoides novaezealandiae

	Taylor Gallagher, University of Otago, New Zealand
SYM41 - Cell S	Signalling and Metabolism – Chemical biology in metabolism and signalling – Room 217
Chairs	Yuning Hong & Peter Mabbitt
1100-1118	Invited Speaker
	Micropolarity governs the structural organization of biomolecular condensates.
	Xin Zhang, Westlake University, China
1118-1136	Invited Speaker
	Unlocking the potential of tag-targeting PROTACs: In vivo discoveries and novel perspectives on substrate ubiquitination
	Rebecca Feltham, Walter & Eliza Hall Institute, Australia
1136-1150	Towards restoration of proteomic balance: Tau antibodies' impact on a mouse model of tauopathy
1150 1150	Esteban Cruz, University of Queensland, Australia
1150-1204	Peroxiredoxins as redox sensors and signalling proteins: one ring to rule them all
1150 1204	Mark Hampton, University of Otago, New Zealand
SYM42 - Mole	cular Physiology – Vascular biology – Room 218
Chairs	Maria Jelinic & Dino Premilovac
1100-1118	Invited Speaker
	Perivascular adipose tissue in control of cardiometabolic risk
	Etto Eringa, Amsterdam University Medical Centres, The Netherlands
1118-1136	Invited Speaker
	Mechanisms underpinning the protective effects of neurokinin 1 blockade in the pulmonary vasculature
	Kristin Bubb, Monash University, Australia
1136-1150	Exploring an association between maternal and neonatal endothelial nitric oxide synthase (enos) gene variants and nitric oxide production
	and oxidative stress in preeclampsia: a case control study in Bangladesh
	Sonia Tamanna, University of Dhaka, Bangladesh
1150-1204	
SYM43 - Biote	chnology and Synthetic Biology – Self-assembly for synthetic biology – Room 219
	Session suported by Macauarie University
Chairs	Session suported by Macquarie University Mibel Aguilar & Christina Cortez-lugo
Chairs	Session suported by Macquarie University Mibel Aguilar & Christina Cortez-Jugo
	Mibel Aguilar & Christina Cortez-Jugo
	Mibel Aguilar & Christina Cortez-Jugo Invited Speaker
1100-1118	Mibel Aguilar & Christina Cortez-Jugo Invited Speaker Surface-fill peptide hydrogel devilers miRNA to treat mesothelioma
1100-1118	Mibel Aguilar & Christina Cortez-Jugo Invited Speaker Surface-fill peptide hydrogel devilers miRNA to treat mesothelioma Joel Schneider, National Cancer Institute, USA
1100-1118	Mibel Aguilar & Christina Cortez-Jugo Invited Speaker Surface-fill peptide hydrogel devilers miRNA to treat mesothelioma Joel Schneider, National Cancer Institute, USA Invited Speaker Programming DNA origami for intracellular applications
1100-1118 1118-1136	Mibel Aguilar & Christina Cortez-Jugo Invited Speaker Surface-fill peptide hydrogel devilers miRNA to treat mesothelioma Joel Schneider, National Cancer Institute, USA Invited Speaker Programming DNA origami for intracellular applications Jessica Kretzmann, University of Western Australia, Australia
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1220-1250 Lightning Talks – Theatrette 1230-1330 Poster Presentations	1210-1330	Lunch, Lightning Talks, Poster Viewing, Exhibition – Exhibition Hall
1230-1330 Poster Presentations	1220-1250	Lightning Talks – Theatrette
1250 1550 Foster resentations	1230-1330	Poster Presentations

1330-1450	Concurrent session 11 – Symposia	
SYM45 - Gene	SYM45 - Gene Editing Day - Biology of CRISPR – Plenary Hall 3	
Chairs	Alexis Komor & Gaetan Burgio	
1330-1348	Invited Speaker	
	Understanding and controlling the plasticity of nucleic acid recognition by CRISPR-Cas9	
	Cyntia Taveneau, Monash University, Australia	
1348-1406	Invited Speaker	
	Leveraging natural gene drives for feral rodent population suppression	
	Paul Thomas, South Australian Health & Medical Research Institute, Australia	
1406-1420	Engineering bufotoxin resistance in marsupials	
	Pierre Ibri, University of Melbourne, Australia	

1420-1434	Genome-wide identification of bacterial genes used in nucleus-forming jumbo phage infection Kate Harding, University of Otago New Zealand
1434-1448	Harnessing CRISPR activation to upregulate TTN as a potential treatment for titinopathies Anthea Lee, University of New South Wales, Australia
SYM46 - Mole	cular Basis of Disease - Neurological disease – Room 210
Chairs	Frederic Meunier & Rebecca San Gil
1330-1348	Invited Speaker
	Developing a novel therapy for motor neuron disease and frontotemporal dementia Lars Ittner, Macquarie University, Australia
1348-1406	Invited Speaker Deciphering the immune-alpha synuclein interactions in the onset of Parkinson's disease
1406-1420	Nathalie Dehorter, University of Queensland, Australia Zooming in: nanoscale considerations in neurodegenerative diseases Adolumba Badamaci, University of Queensland, Australia
1420-1434	Adekunle Bademosi, University of Queensland, Australia Unveiling the molecular landscape of tau aggregates in Alzheimer's disease and related disorders Dorothea Boeken, University of Cambridge United Kingdom
1434-1448	Multi-omic analysis of kidney organoids as a model of hypoxic injury and maladaptive repair Ana Nunez Nescolarde, Monash University, Australia
SYM47 - Micro	bial World - Antimicrobial resistance – Room 211
Chairs	Jonathan Iredell & Stephanie Neville
1330-1348	Invited Speaker A bacterial regulatory mRNA has expanded through the acquisition of repeat insertion sequences and is required for pathogenesis and antibiotic tolerance Daniel Mediati, University of Technology Sydney, Australia
1348-1406	Invited Speaker Exploring the utility of zinc-ionophores for the treatment of acinetobacter baumannii lung infection David De Oliveira, University of Queensland, Australia
1406-1420	Quercetin-loaded Solid Lipid Nanoparticles (SLN-QT): an effective approach for controlling therapeutic resistance in nematodes Sunidhi Sharma, Thapar Institute Of Engineering And Technology, India
1420-1434	Studying the novel peptide lactofungin that potentiates the effect of the anti-fungal drug amphotericin b Chandra Harshita Chavali, University of Queensland, Australia
1434-1448	Daptomycin-loaded nanoparticles synergistically kill methicillin-resistant staphylococcus aureus
SVM/8 - Coll I	Jhih-Hang Jiang, Monash University, Australia Developmental and Stem Cell Biology - Imaging in cell and developmental biology – Room 212
Chairs	Hongbin Jin & John Lock
1330-1348	Invited Speaker Unveiling embryo developmental potential with advanced photonics Kylie Dunning, University of Adelaide, Australia
1348-1406	Invited Speaker The Hippo pathway transcription factor Scalloped and its co-factors alter each other's chromatin binding dynamics to modulate transcription in vivo
1406-1420	Samuel Manning, Monash University, Australia" Enlightening the role of microtubules in mesenchymal cell migration
1400-1420	Joyce Meiring Utrecht University Netherlands
1420-1434	Microtubule-dependent pluripotent cell plasticity orchestrated by centrosomal and non-centrosomal switching Oliver Anderson Australian Regenerative Medicine Institute, Australia
1434-1448	Organelle mapping in dendrites of human iPSC-derived neurons reveals dynamic functional dendritic Golgi structures
SVM49 Gono	Jingqi Wang, University of Melbourne, Australia Editing Day – CRISPR engineering – Room 213
Chairs	
	Peter Fineran & Caixia Gao
1330-1348	Invited Speaker Gene editing for more nutritious grain crops Karen Massel, University of Queensland, Australia
1348-1406	Invited Speaker In vivo genome editing using targeted integration corrects ornithine transcarbamylase deficiency with restoration of liver-wide metabolic zonation Samantha Ginn, Children's Medical Research Institute, Australia
1406-1420	Exploring epigenomics for crop improvement: uncovering and manipulating hidden genetic control elements Yan Zhang, University of Queensland, Australia
1420-1434	Taking aim at targeted "whole-gene" insertion: a crispr-prime editing and bxbi integrase duet Jesse Kennedy, University of Adelaide, Australia
1434-1448	Harnessing CRISPR RNA base editing for inherited retinal disease
SVMED Street	Satheesh Kumar, Centre For Eye Research Australia, Australia tural Biology and Biophysics – Advances in microscopy – Room 217
Chairs	Donna Whelan & Kate McArthur
1330-1348	Invited Speaker Imaging subcellular dynamics in tissues, organoids and spheroids using airy beam light sheet microscopy Senthil Arumugam, EMBL Australia, Australia
1348-1406	Invited Speaker Using cryo-electron microscopy to understand the biology and drug binding of the wnt signalling pathway
1406-1420	Alisa Glukhova, Walter and Eliza Hall Institute of Medical Research, Australia Biomolecular complex structures demonstrate how cryo-EM reveals molecular mechanisms Oil how Tables Tables Tables
	Gökhan Tolun, University of Wollongong, Australia

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1420-1434	Growth of model protocells through hypoosmotic shock
4424 4440	Lauren Lowe, University of New South Wales, Australia
1434-1448	Timekeeping mechanisms in early endosomal trafficking
SVME1 Bioto	Harrison York, Monash University, Australia chnology and Synthetic Biology – Protein design – Room 218
Chairs	Jacqui Matthews & Joe Kaczmarski
1330-1348	Invited Speaker
	Precise and minimal modification of proteins with spies and reactive handles
	Thomas Huber, Australian National University, Australia
1348-1406	Invited Speaker
	Developing novel exopolysaccharides for plant-based food applications
	Yosephine Gumulya, University of Queensland, Australia
1406-1420	GAOptimizer: genetic algorithm based protein redesign method
	Shogo Nakano, University of Shizuoka, Japan
1420-1434	Engineering antibody Fc domains to enhance vaccine responses
	William Kelton, University of Waikato, New Zealand
1434-1448	Asap-id: a method of proximity labelling with a 19 amino acid fusion tag
	Ruohua Lyu, University of Melbourne, Australia
SYM52 - Cell S	ignalling and Metabolism – Protein degradation – Room 219
Chairs	Min-jae Lee & Julia Pagan
1330-1348	Invited Speaker
	Proteasome phase separation triggered by ATP depletion
	Yasushi Saeki, University of Tokyo, Japan
1348-1406	Invited Speaker
	Crossing Codes – at the intersection of ubiquitin and glycan
	David Komander, Walter & Eliza Hall Institute, Australia
1406-1420	The Cannabis extract PHEC-66 triggers melanoma cell apoptosis
	Terrence Piva, RMIT University, Australia
1420-1434	Crispr-directed chromosomal translocations provide novel insights into leukaemia biology
	Teresa Sadras, Peter MacCallum Cancer Centre, Australia
1434-1448	Extracellular and intracellular functions of V-domain Ig-containing suppressor of T cell activation (VISTA) immune checkpoint protein
	Vadim Sumbayev, University of Kent, United Kingdom
SYM53 - Mole	cular Physiology – Developmental physiology: Heating it up with advanced imaging in pregnancy and impacts on offspring – Room 220
Chairs	Janna Morrison & Deanne Hryciw
1330-1348	Invited Speaker
	The vascular voyage: MRI insights into prenatal blood flow and oxygen delivery
	Christopher Macgowan, Hospital For Sick Children, Canada
1348-1406	Invited Speaker
	Extreme heat and pregnancy complications: utilising transdisciplinary approaches to understand physiological mechanisms
	Caitlin Wyrwoll, University of Western Australia, Australia
1406-1420	Influence of multiparity and choline intake during pregnancy on cognition
	Valerie Lin, Nanyang Technological University, Singapore
1420-1434	The role of ErbB4 receptor isoforms in postnatal cardiac development
	Robert-Baraka Kibaja, University of Queensland, Australia
	hobert buruna hisaja, oniversity of Queensiana, Australia
1434-1448	Investigating the immunomodulatory role of PGRMC2 in maternal-fetal membrane interface using organ-on-chip platform

1450-1520 Afternoon Tea - Exhibition Hall

1520-	Society Award Presentations
Australian Soci	ety of Biophysics (ASB) Award Presentations – Room 210
Chair	Elizabeth Hinde
1520-1550	Bob Robertson Award Lecture
	Recipient to be announced
1550-1610	McAulay-Hope Prize Lecture
	Recipient to be announced
Australian Phys	siological Society (AuPS) Lecture – Room 211
Chair	Livia Hool
1520-1620	Exercise is medicine: muscle contraction, tissue crosstalk and disease prevention
	Mark Febbraio, Monash University, Australia
Australian Soci	ety for Biochemistry and Molecular Biology (ASBMB) Award Presentations – Room 212
Chair	Ross Hannan
1520-1525	Introductions
1525-1555	The Shimazdu Research Medal Lecture
	Molecular basis of signalling by TIR domain containing proteins
	Thomas Ve, Griffiths University, Australia
1600-1615	The Eppendorf Edman ECR Award Lecture
	Understanding the molecular recognition of Bacteroides fragilis glycosphingolipids by natural killer T-cell receptor
	Praveena Thirunavukkarasu, Monash University, Australia

1620-1650	The Lemberg Medal Lecture Building elastic tissue: from the bench to the clinic Anthony Weiss, University of Sydney, Australia
Australia & Ne	ew Zealand Society for Cell & Developmental Biology (ANZSCDB) Award Presentations – Room 213
Chair	Aleksandra Filipovska
1520-1530	Presentation of awards and photographs
1530-1610	President's Medal Talk Golgi and friends: from glycosylation and membrane trafficking to neurodegeneration Paul Gleeson, University of Melbourne, Australia
1610-1620	Questions and discussion
1620-1640	Emerging Leader Talk Cell identity at the heart of development and disease Nathan Palpant, Institute for Molecular Bioscience, Australia
1640-1650	Questions and discussion
New Zealand	Society for Biochemistry & Molecular Biology (NZSBMB) Award Presentations - Room 218
Chairs	Peter Mace
1520-1550	Custom Science Award for Research Excellence Identifying isoform variation in autophagy as a cause of Parkinson's disease Justin O'Sullivan, University of Auckland, New Zealand
1550-1610	NZSBMB Early Career Award, supported by Custom Science Phage anti-CRISPR control by a DNA- and RNA-binding helix-turn-helix protein Nils Birkholz, University of Otago, New Zealand
Australian Soc	iety for Microbiology (ASM) Presentations – Room 219
Chairs	Mark Schembri & Dena Lyras
1520-1540	Manipulation of the lysosome by Coxiella burnetii Hayley Newton, Monash University, Australia
1540-1600	Genome wide investigation of the paths of antibiotic uptake in Escherichia coli Karl Hassan, University of Newcastle, Australia
1600-1620	Evaluation of novel inhibitors against the macrophage infectivity potentiator in Burkholderia pseudomallei and Coxiella burnetii Mitali Sarkar-Tyson, University of Western Australia, Australia
1620-1640	Understanding gene regulation in bacterial pathogens to design better therapeutics John Atack, Griffiths University, Australia
1640-1700	Unravelling Resistance: Mycolic Acid Biosynthetic Pathway Mutations shield Gordonia amarae from the Saccharibacterium epiparasite Ca. Mycosynbcater amalyticus infection Steve Petrovski, La Trobe University, Australia
OUTREACH EV	/ENT – Plenary Hall 3
1430-1530	Escorted Visit to the Exhibition
1530-1600	Talk Fest for High School Students

	Society Annual General Meetings
1615-1715	ASB AGM – Room 210
1650-1750	ASBMB AGM – Room 212
1650-1750	ANZSCDB AGM -Room 213
	IUBMB Trainee Session
1700-1830	Introducing the IUBMB Trainee Initiative: supporting the next generation of scientists – Room 217

1830-2100 Congress Networking Event

Thursday 26 September 2024 - Climate Change Day

0730-1700 Registration – Plenary Foyer

0830-0950	Concurrent Session 12- Symposia
SYM54 - Climat	e Change Day – Causes and mitigation strategies of greenhouse gas emissions – Plenary Hall 3
Chairs	Esteban Marcellin & Zahra Islam
0830-0848	Invited Speaker
	Measuring the enteric methane production of beef cows
	Marina Fortes, University of Queensland, Australia

0848-0906	
	Invited Speaker
	Drug discovery for soil health: developing novel nitrification inhibitors for a greener agriculture
	Uta Wille, University of Melbourne, Australia
0906-0920	Sowing the seeds of evolution: Agriculture alters protein evolution of soil nutrient cycling genes globally
	Timothy Ghaly, Macquarie University, Australia
0920-0934	Native polymer degradation capacity of microorganisms in agricultural soils
	Zahra Islam, University of Melbourne, Australia
0934-0948	CRISPR/cas-based approaches to alter stress tolerance in barley
	Goetz Hensel, Heinrich Heine University, Germany
SYM55 - Cell S	ignalling and Metabolism - OMICS in cellular regulation – Room 210
Chairs	Greg Redpath & Sally McCormick
0830-0848	Invited Speaker
	Single-cell omic analysis of diabetes-induced cardiac remodelling: transforming paradigms of cellular and molecular drivers of diabetic
	cardiomyopathy
	Alex Pinto, Baker Institute, Australia
0848-0906	Invited Speaker
	Global control of the activity and level of RNA polymerase II
	Alexander Gillis, University of New South Wales, Australia
0906-0920	Systems genetics identifies alpha-defensin-26 peptides as key determinates metabolic health
	Stewart Masson, University of Sydney, Australia
0920-0934	A novel role for lipid droplets as extracellular communicators during virus infection
	Ebony Monson, La Trobe University, Australia
0934-0948	Defining novel AMPK substrates by lysosome-enriched phosphoproteomics
	Ashfaqul Hoque, St Vincent's Institute of Medical Research, Australia
SYM56 - Geno	mics, Gene Regulation and Epigenetics - Computational genomics – Room 211
Chairs	Giulia Jacone & Bolinda Phinson
0830-0848	Giulia Iacono & Belinda Phipson
0830-0848	Invited Speaker
	Genome-wide de novo tandem repeat variation in a four-generation family extensively sequenced with multiple long- and short-read
	technologies
0040.0000	Harriet Dashnow, University of Colorado, USA
0848-0906	Invited Speaker
	Roundhound: detecting plasmid transmission from short-read datasets
0000 0000	Leah Roberts, Queensland University of Technology, Australia
0906-0920	Deciphering the genetic code of autoimmunity: finding the function of autoimmune risk variants
	Viacheslav Kriachkov, Walter & Eliza Hall Institute, Australia
0920-0934	Under-appreciated and overlooked: Mapping the identity, molecular diversity and eDNA context of New Zealand's freshwater sponge species
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0920-0934 0934-0948 SYM57 - Cell, I Chairs 0830-0848 0848-0906 0906-0920 0920-0934 0934-0948 SYM58 - Mole Chairs 0830-0848 0848-0906	Under-appreciated and overlooked: Mapping the identity, molecular diversity and eDNA context of New Zealand's freshwater sponge species Ella Dewar, University of Otago, New Zealand An atlas of sex-specific epigenetic ageing across elight human tissues Danielle Hiam, Deakin University, Australia Developmental and Stem Cell Biology – Intracellular trafficking and extracellular vesicles - Room 212 Paul Gleeson & Pamali Fonseka Inivited Speaker Structure of the endosomal Commander complex mutated in Ritscher-Schinzel syndrome: combining crystallography, cryoEM and AlphaFold2 Brett Collins, University of Queensland, Australia Invited Speaker Yhospholipid scrambling: a novel regulator of extracellular vesicle cargo packaging and function Sarah Stewart, La Trobe University, Australia Ubiquitin K29 chains regulate the biogenesis of extracellular vesicles Yoon Lim, University of South Australia, Australia In vivo sivalization of endothelial cell-derived extracellular vesicles Yoon Lim, University of South Australia, Australia In vivo sivalization of endothelial cell-derived extracellular vesicle formation in stedy state and malignant conditions Georgia Atkin-Smith, Water & Eliza Hall Institute, Australia Trabid patient mutations impede the axonal trafficking of adenomatous polyposis coli to disrupt neurite growth Hoanh Tran, The Peter Doherty Institute for Infection and Immunity, Australia Cular Basis of Disease - Pathogen resistance and virulence- Room 213 Dena Lyras & Stephanie Gras Invited Speaker Rived Speaker Ellar Maller, University of Queensland, Australia Invited Speaker First molecular insight into HLA-c contribution to COVID-19 mouse model Jasmine Minh Hang Nguyen, The Centenary Institute, Australia Nucleolar Hendra virus Interactions visualised by expansion microscopy
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0920-0934 0934-0948 SYM57 - Cell, I Chairs 0830-0848 0848-0906 0906-0920 0920-0934 0934-0948 SYM58 - Molea Chairs 0830-0848 0848-0906 0906-0920 0906-0920 0920-0934 0934-0948	Under-appreciated and overlooked: Mapping the identity, molecular diversity and eDNA context of New Zealand's freshwater sponge species Ella Dewar, University of Otago, New Zealand An atlas of sex-specific epigenetic ageing across elight human tissues Danielle Hiam, Deakin University, Australia Developmental and Stem Cell Biology – Intracellular trafficking and extracellular vesicles - Room 212 Paul Gleeson & Pamali Fonseka Inivited Speaker Structure of the endosomal Commander complex mutated in Ritscher-Schinzel syndrome: combining crystallography, cryoEM and AlphaFold2 Brett Collins, University of Queensland, Australia Invited Speaker Yhospholipid scrambling: a novel regulator of extracellular vesicle cargo packaging and function Sarah Stewart, La Trobe University, Australia Ubiquitin K29 chains regulate the biogenesis of extracellular vesicles Yoon Lim, University of South Australia, Australia In vivo sivalization of endothelial cell-derived extracellular vesicles Yoon Lim, University of South Australia, Australia In vivo sivalization of endothelial cell-derived extracellular vesicle formation in stedy state and malignant conditions Georgia Atkin-Smith, Water & Eliza Hall Institute, Australia Trabid patient mutations impede the axonal trafficking of adenomatous polyposis coli to disrupt neurite growth Hoanh Tran, The Peter Doherty Institute for Infection and Immunity, Australia Cular Basis of Disease - Pathogen resistance and virulence- Room 213 Dena Lyras & Stephanie Gras Invited Speaker Rived Speaker Ellar Maller, University of Queensland, Australia Invited Speaker First molecular insight into HLA-c contribution to COVID-19 mouse model Jasmine Minh Hang Nguyen, The Centenary Institute, Australia Nucleolar Hendra virus Interactions visualised by expansion microscopy
0920-0934 0934-0948 SYM57 - Cell, I Chairs 0830-0848 0848-0906 0906-0920 0920-0934 0934-0948 Chairs 0830-0848 0830-0848 0848-0906 0906-0920 0906-0920 0920-0934 0934-0948	Under-appreciated and overlooked: Mapping the identity, molecular diversity and eDNA context of New Zealand's freshwater sponge species Ella Dewar, University of Otago, New Zealand An attas of sex-specific epigenetic ageing across eight human tissues Danielle Hiam, Deakin University, Australia Developmental and Stem Cell Biology – Intracellular trafficking and extracellular vesicles - Room 212 Paul Gieeson & Pamali Fonseka Invited Speaker Structure of the endosomal Commander complex mutated in Ritscher-Schinzel syndrome: combining crystallography, cryoEM and AlphaFold2 Brett Collins, University of Queensland, Australia Invited Speaker Structure of the endosomal Commander complex mutated in Ritscher-Schinzel syndrome: combining crystallography, cryoEM and AlphaFold2 Brett Collins, University of Queensland, Australia Invited Speaker Gross Atternet Torbe University, Australia Ubiquitin K29 chains regulate the biogenesis of extracellular vesicle cargo packaging and function Sarah Stewart, La Trobe University, Australia Comparison of endothelial cell-derived extracellular vesicle formation in stedy state and malignant conditions Georgia Attin-Smith, Walter & Eliza Hall Institute, Australia Trabid patient mutations impede the axonal trafficking of adenomatous polyposis coli to disrupt neurite growth Haah Tran, The Peter Doherty Institute for Infection and Immunity, Australia Cuar Basis of Disease - Pathogen resistance and virulence- Room 213 Dena Lyras & Stephanie Gras Invited Speaker Molecular characterization of streptococcus pyogenes outbreak strains associated with scarlet fever and invasive infections in Australia Invited Speaker Molecular insight into HLA-c contribution to COVID-19 outcome You Min Ahn, La Trobe University, Australia Deficiency of Dipeptid/P epidase 9 enzyme activity is beneficial in an acute COVID-19 mouse model Jasmine Minh Hang Nguyen, The Centenary Institute, Australia Nucleolar Hendra Virus Interactions visualised by expansion microscopy Nathan Sos, Monash University, Australia
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Cholsoon Jang, University of California, USA Invited Speaker Using proximity proteomics to disentangle metabolism at the interface of lipid droplets, mitochondria and the endoplasmic reticulum Matthew Watt, University of Melbourne, Australia A meta-analysis of mitochondrial proteomics studies reveals novel mitochondrial proteins that are upregulated by the stress of exercise David Bishop, Victoria University, Australia Role of skeletal muscle atrophy in chronic liver disease Okka Htin Aung, Monash University, Australia Characterising the role of the small Toms in mitochondrial disease Bethany Anderson, University of Melbourne, Australia ral Biology and Biophysics – Spectroscopy and scattering – Room 218 Amandeep Kaur & Joanna Hicks Invited Speaker
Using proximity proteomics to disentangle metabolism at the interface of lipid droplets, mitochondria and the endoplasmic reticulum Matthew Watt, University of Melbourne, Australia A meta-analysis of mitochondrial proteomics studies reveals novel mitochondrial proteins that are upregulated by the stress of exercise David Bishop, Victoria University, Australia Role of skeletal muscle atrophy in chronic liver disease Okka Htin Aung, Monash University, Australia Characterising the role of the small Toms in mitochondrial disease Bethany Anderson, University of Melbourne, Australia ral Biology and Biophysics – Spectroscopy and scattering – Room 218 Amandeep Kaur & Joanna Hicks
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Amandeep Kaur & Joanna Hicks
Invited Speaker
Structural insights into the multifunctionality of rabies virus P3protein
Ashish Sethi, Australian Synchrotron (ANSTO), Australia
Invited Speaker
Structural plasticity of the coiled-coil interactions in SFPQ
Charles Bond, University of Western Australia, Australia
Invited Speaker
Measuring 10-30 ångström-scale distances in proteins using 19f endor
Nick Cox, Australian National University, Australia
The structure of the marsupial $\gamma\mu$ T cell receptor defines a third T cell lineage in vertebrates
Jerome Le Nours, Monash University, Australia
Investigating the effects of naturally occurring antibody Fc polymorphisms on structural dynamics
Annmaree Warrender, Australian Synchrotron (ANSTO), Australia
al World – Emerging pathogens – Room 219
Kei Sato & Belinda de Villiers
Invited Speaker
Mosquitoes provide a transmission route between possums and humans for Buruli ulcer in southeastern Australia
Andrew Buultjens, University of Melbourne, Australia
Invited Speaker
Retroviruses of bats: a threat waiting in the wings?
Gilda Tachedjian, Burnet Institute, Australia
Investigating the role of cell surface sialylated glycans in the viral entry of severe acute respiratory syndrome coronavirus 2 (sars-cov-2)
variants
Justin Richmond Domingo, University of the Philippines, Philippines
Characterization of SARS-CoV-2 pseudoviruses: Investigating spike protein interactions with mammalian cells at membrane and global levels
Aishi Dasgupta, Indian Institute of Technology Bombay, India
Molecular mechanisms of SARS-CoV-2 resistance to nirmatrelvir and the countermeasures
Haitao Yang, Shanghaitech University, China nology and Synthetic Biology – Biosensors – Room 220
loogy and Synthetic Biology - Biosensors - Room 220
Siyang Ding & Kirill Alexandrov
Invited Speaker
Decoding nanoscale features of protein aggregates using fluorescent probes
Amandeep Kaur, Monash University, Australia
Invited Speaker
What happens when enzymologists set out to make better biosensors for winemakers
Wayne Patrick Victoria, University of Wellington, New Zealand
Nucleic acid-based biosensors: advancing biomolecule detection for point-of-care applications
Elena Eremeeva Queensland, University of Technology, Australia
Insect odorant receptor-based biosensors for human health applications
Mark Agasid, Scentian Bio, New Zealand
Reconstruction of a flagellar stator from homologous structural elements
neconstruction of a nagenal statut nonn nonogous structural cientents

0950-1020 Morning Tea – Plenary Foyer

KS32 - Climate	e Change Day
KSS2 Chinat	
Chairs	Chris Greening & Hangwei Hu
0830-0848	Keynote Speaker
	Development and implementation of high throughput screening strategies to identify inhibitors to control greenhouse gas emissions in soil
	Greg Cook, Queensland University of Technology, Australia
1050-1108	Invited Speaker
	Dryland fungi and climate change: insights from global research
	Eleonora Egidi, Western Sydney University, Australia
1108-1122	TBC
1122-1136	Investigating the evolutionary implications of mitochondrial heteroplasmy in response to heat stress in Drosophila melanogaster
	Jade Kannangara, Monash University, Australia

Chairs	Craig Morton & Hafumi Nishi
1020-1038	Invited Speaker
1020-1038	Exploring Al-generated virtual libraries for drug discovery Mark Waller Pending Al, Australia
1038-1056	Invited Speaker Deep-learning model for fast and accurate computation of hydration structures around proteins Takachi Vashidama, Takaku University, Japan
1056-1110	Takashi Yoshidome, Tohoku University, Japan Exploring enzyme function using computational tools – insights into catalysis and allostery Wanting Jiao, Victoria University of Wellington, New Zealand
1110-1124	Psichic: physicochemcal graph neural network for learning protein-ligand interaction fingerprints from sequence data Anh Thi Ngoc Nguyen, Monash Institute of Pharmaceutical Sciences, Australia
1124-1138	Mitigating structural bias in machine learning-guided peptide design Fabien Plisson, Centre for Research and Advanced Studies of the National Polytechnic Institute, Mexico
SYM64 - Geno	mics, Gene Regulation and Epigenetics – Post-transcriptional gene regulation – Room 211
Chairs	Vi Wickramasinghe & Traude Beilharz
1020-1038	Invited Speaker
1020 1000	Formation and functions of circular RNAs Greg Goodall, Centre for Cancer Biology, Australia
1038-1056	Invited Speaker
	Fine-tuning of mitochondrial gene expression Aleksandra Filipovska, University of Western Australia, Australia
1056-1110	The TREX-2 complex is an unidentified mRNA export receptor
	Tamas Fischer, The John Curtin School of Medical Research, Australia
1110-1124	Epigenetic pathways that regulate the mitochondrial genome and damage responses
1124-1138	Steven Zuryn, University of Queensland, Australia Time-resolved multi-omics illustrates the impact of DNA replication stress on chromatin integrity and pluripotency loss
1174-1190	Osvaldo Contreras, Victor Chang Cardiac Research Institute, Australia
KS33 - FAOBN	B Award Presenations – Room 212
Chairs	Joon Kim & Usha Hettiaratchi
1020-1100	FAOBMB Research Excellence Awardee Biogenesis, function and potential application of circular RNAs
	Ling-Ling Chen, Shanghai Institute of Biochemistry and Cell Biology, China
1100-1115	FAOBMB Young Scientist Awardee
	Depletion of the paternal gut microbiome alters sperm small RNAs and impacts offspring physiology and behavior
	Carolina De Moura, Gubert Florey Institute, Australia
1115-1130	FAOBMB Young Scientist Awardee
	Reprogramming host metabolism for broad-spectrum antiviral therapy
SYM65 - ASB/	Shuofeng Yuan, University of Hong Kong, Hong Kong CSCB Joint Session – Fluorescence methods/ DNA damage – Room 213
-	
Chairs	Liz Hinde & Xuebiao Yao
1020-1038	Invited speaker Biomolecular condensation of EB1 guides quality control of cell renewal
	Xuebiao Yao, University of Science & Technology of China, China
1038-1052	Dynamic phosphorylation of FOXA1 by Aurora B guides post-mitotic gene reactivation
	Xing Liu, University of Science and Technology of China, China
1052-1106	Visualising epigenetic histone modifications in the T cell nucleus with single molecule expansion microscopy
	Toby Bell, Monash University, Australia
1106-1120	CSPP1 Stabilizes non-centrosomal microtubules by capping the distal ends Zbikaj Wang, University of Science and Technology of China, China
1120-1134	Zhikai Wang, University of Science and Technology of China, China Histone FRET microscopy coupled with SPT reveals the chromatin nanoscale landscape to facilitate nuclear protein dynamics
	Jieqiong Lou, University of Melbourne, Australia
SYM66 - Mole	cular Physiology – Exercise is medicine: Tissue crosstalk – Room 217
Chairs	Mark Febbraio & Heather Christofk
1020-1038	Invited Speaker
-020 1030	Exercise, adaptive homeostasis and ageing
	Tony Tiganis, Monash University, Australia
1038-1056	Invited Speaker
	Identification of novel secretory factors from the heart as new targets for metabolic disease
1056-1110	Julie McMullen, Baker Heart & Diabetes Institute, Australia
1020-1110	How space dust settles our mind: discovery of the cell and receptor target of the mood stabiliser lithium Damien Keating, Flinders University, Australia
1110-1124	Fetal glucose infusion normalizes cardiac CaMKII activation and oxphos complex 3 abundance in the sheep fetus exposed to maternal
1110-1124	undernutrition in late gestation
	Melanie Bertossa, University of South Australia, Australia
1124-1138	Low-dose metformin treatment for 14 days normalises cerebral blood flow after ischaemic stroke in rats
	Anania Tsinoglou, University of Tasmania, Australia
	abaalagu and tuuthatia Dialagu Industrial nyatain nyadustian Daam 310
SYM67 - Biote	chnology and Synthetic Biology – Industrial protein production – Room 218
	Joe Brock & David Wollborn
SYM67 - Biote Chairs 1020-1038	

	Integrated design environment for advanced biomanufacturing (idea bio): learnings on setting up a fermentation biofoundry to develop
	bioprocesses
	Axayacatl Gonzalez, University of Queensland, Australia
1038-1056	Invited Speaker
1000 1000	The innovative ingredients program at the food and beverage accelerator
	Esteban Marcellin, University of Queensland, Australia
1056-1110	Directed cho: a new miniaturized directed evolution process for phenotype stability trial test of cho cells before bioreactor scale up
	Mutsa Takundwa, Council For Scientific & Industrial Research, South Africa
1110-1124	High-throughput optimisation of protein secretion in yeast via an engineered biosensor
	Joseph Brock, Australian National University, Australia
1124-1138	Engineering encapsulins for targeted enzyme prodrug therapy in cancer treatment
1124 1150	Mariia Zmyslia, Albert-Ludwigs University of Freiburg, Germany
SYM68 - Micro	bial World – Cellular communication – Room 219
Chairs	Trevor Lithgow & Leo Eberl
1020-1038	Invited Speaker
	Staphylococcal pore forming toxins require host factors to kill
	Thomas Naderer, Monash University, Australia
1038-1056	Invited Speaker
	Specialised metabolism among human pathogenic nocardia
	Sacha Pidot, University of Melbourne, Australia
1056-1110	Manipulation of mitochondrial functions by legionella pneumophila
	Kai Qi Yek, University of Melbourne, Australia
1110-1124	Unraveling the multifaceted role of CetZ1 cytoskeletal protein in Archaeal cell dynamics
	Vinaya Shinde, University of Technology Sydney, Australia
1124-1138	A metabolic cross-talk between immune cells and fungal pathogens determines their fate upon interaction
	Harshini Weerasinghe, Monash University, Australia
SYM69 - Cell S	ignalling and Metabolism – Immuno-metabolism – Room 220
Chairs	Ajithkumar Vasanthakumar & Kylie Quinn
1020-1038	Invited Speaker
	Microbiota-derived metabolites preserve stem-like CD8 T cell immunity against melanoma
	Annabell Bachem , University of Melbourne, Australia
1038-1056	Invited Speaker
	Turning off hyperactive kinases in cardiometabolic diseases
	Denuja Karunakaran, Monash University, Australia
1056-1110	The effect of human plasma-like media on high salt-affected macrophage activation and the role of arginine
	Kaitlyn Ritchie, La Trobe University, Australia
1110-1124	Exposure of the inner mitochondrial membrane triggers apoptotic mitophagy
	Kate McArthur, Monash University, Australia
1124-1138	Investigating the interaction of lipid droplets and stat proteins in antiviral signaling using super-resolution microscopy
1124-1138	I Investigating the interaction of libid droplets and star proteins in antiviral signaling using super-resolution microscopy

1140-1150 Session change over

1150-1300 Concurrent Session 14 – Keynote, Hot Topics & Symposia KS34 - Climate Change Day – Plenary Hall 3 Chairs Zahra Islam & Santana Royan 1150-1220 Keynote Speaker Metalloenzyme megacomplexes involved in the hydrogenotrophic methanogenic pathway Seigo Shima, Max Planck Institute for Terrestrial Microbiology, Germany 1220-1238 Invited speaker Engineering nitrogenase into plants: progress to date Trevor Rapson, CSIRO, Australia 1238-1252 Structural and mechanistic investigations into the regulation of the plant ethylene-forming enzyme Francis Kuang, University of Melbourne, Australia 1252-1306 Modulating hydrogen flow to reduce emissions and increase productivity of ruminants Chris Greening, Monash University, Australia Hot Topic 1 - Protein chemistry – Room 211 Chairs Guillaume Lessene & Rebecca Feltham 1150-1208 Invited Speaker Tuned for destruction - targeted protein degraders for precision oncology Michael Roy, Walter & Eliza Hall Institute, Australia 1208-1222 Exploring peptide ligand size in relation to target binding affinity and selectivity Xuefei Jing, University of Sydney, Australia 1222-1236 Cell-autonomous decellularised matrices as experimental cancer models for drug discovery and 3D tumour mimics Mitchell Lockwood, University of Sydney, Australia 1236-1250 Directed evolution - one molecule at a time. Stefan Mueller, University of Wollongong, Australia SYM70 - Structural Biology and Biophysics - Protein structure, interactions and molecular assemblies - Room 212

Chairs	James Murphy & Sandhya Visweswariah
1150-1208	Invited Speaker
	Single-molecule imaging of stochastic interactions that drive dynein activation and cargo movement in cells.
	Vaishnavi Ananthanarayanan, University of New South Wales, Australia
1208-1226	Invited Speaker
	Double trouble—regulation of ubiquitination by DDD complexes Peter Mace, University of Otago, New Zealand
	New structure of full-length rat MLKL reveals novel interface for interdomain communication.
1220 1210	Katherine Davies, Walter & Eliza Hall Institute, Australia
1240-1254	Switching the PPARG conformation to improve T2DM therapies
	Rebecca Frkic, Australian National University, Australia
SYM71 - Mole	cular Basis of Disease – Host-pathogen interactions – Room 213
Chairs	Hayley Newton & Emma Grant
1150-1208	Invited Speaker
	Manipulating macrophage antimicrobial pathways in the search for host-directed therapies
	Matthew Sweet, University of Queensland, Australia
1208-1226	Invited Speaker
	Cell intrinsic immunity to intracellular bacteria Elizabeth Hartland, Hudson Institute of Medical Research, Australia
1226-1240	How do some of us remain asymptomatic during COVID-19?
	Lawton Murdolo, La Trobe University, Australia
1240-1254	Helicobacter pylori cytotoxin, VacA, hijacks dendritic cell extracellular vesicles
	Ruby Gorman-Batt, Monash University, Australia
SYM72 - Bioin	formatics, Computational Biology and 'Omics – New insights from new bioinformatics tools – Room 218
Chairs	Miles Benton & Annabel Whibley
1150-1208	Invited Speaker
	A vision of translational computational pharmacogenomics
	Michael Menden, University of Melbourne, Australia
1208-1226	Invited Speaker
	Implementing targeted nanopore sequencing for clinical applications
1226-1240	James Ferguson, Garvan Institute, Australia
1220-1240	Complete cryo-EM data processing on bunya HPC virtual desktops Farrah Blades, University of Queensland, Australia
1240-1254	Mapping the molecular landscape of sex- and modality-specific exercise responses in human skeletal muscle through multi-OMICs
	integration
	Macsue Jacques, Monash University, Australia
Hot Topic 2 – ⁻	The microbiome in human health & disease – Room 218
Chairs	Monica Slavin & Calum Walsh
1150-1204	Human gut microbiome responses to over 300 drugs
	Daniel Figeys, University of Ottawa, Canada
1204-1218	Harnessing vaginal microbiota metabolites for HIV prevention: elucidating the mechanisms of lactic acid signalling at the cervicovaginal
	epithelial barrier Brianna Jesaveluk, Burnet Institute, Australia
1218-1232	Targeting gut microbiota through faecal microbiota transplantation attenuates the dystrophic phenotype in mdx mice
	Cara Timpani, Victoria University, Australia
1232-1246	Time-course changes in fecal microbiome communities up to 12-months after one-anastomosis gastric bypass in morbidly obese Australian
	patients: a pilot study
	Urja Amin, La Trobe University, Australia
SYIM/3 - Cell,	Developmental and Stem Cell Biology – Spatial biology and tissue heterogeneity in development – Room 220
Chairs	Raymond Yip & Ruth Arkell
1150-1208	Invited Speaker
	Spatial transcriptomics reveals temporal and spatial gene dysregulation before the onset of symptoms in a mecp2 mouse model of Rett
	syndrome Monica Justice, Hospital for Sick Children, USA
1208-1226	Invited Speaker
	Trans-omic profiling uncovers molecular controls of early human cerebral organoid formation
	Pengyi Yang, Children's Medical Research Institute, Australia
1226-1240	Notch and Vegf signalling orchestrates endocardial sprouting during cardiac trabeculation
1226-1240	
1226-1240	Yen Tran, Australian Regenerative Medicine Institute, Australia
1226-1240 1240-1254	Yen Tran, Australian Regenerative Medicine Institute, Australia Mapping the spatial characteristics of erythroblastic islands and erythroid enucleation

1300-1415 Lunch - Plenary Foyer

1315-1400	Lunchtime Technical Workshops	
Workshop 4 -	Workshop 4 - Protein cryo EM – Room 210	
Chairs	Eric Hanssen & Sepideh Valimehr	
Speakers	Sepideh Valimehr, University of Melbourne, Australia	
	Manasi Arcot Anil Kumar, University of Melbourne, Australia	
	Gokhan Tolun, University of Wollongong, Australia	

Workshop 5	Norkshop 5 - Digital spatial profiling – Room 211	
Chairs	Kaylene Simpson & Anna Trigos	
Speakers	Anna Trigos, Peter MacCallum Cancer Centre, Australia	
	David Kaplan, Peter MacCallum Cancer Centre, Australia	
	Claire Marceaux, Walter & Eliza Hall Institute, Australia	
Workshop 6	Norkshop 6 - Protein Nomenclature: Problems and Possible Solutions – Room 217	
Chair	Zengyi Chang	
Speakers	Jun Yu, Beijing Institute of Genomics, China	
	Michele Magrane, EMBL-EBI, United Kingdom	
	Daniel Haft, NIH-NCBI, USA	
Workshop 7	- Everything you wanted to know about publishing but were too afraid to ask! – Room 212	
	Session supported by Portland Press	
Chairs	Christina Mitchell & Fiona Whelan	
Speakers	Michael Funk, Science Magazine, USA	
	Dario Alessi, Biochemical Journal, United Kingdom	
	Qingqing Xiao, Wiley, China	

1415-1515	Concurrent Session 15 – Plenary, Hot Topics & Symposia
1415-1515	Plenary 7 - FEBS Worldwide Lecture
Room	Plenary Hall 3
Chairs	FEBS Award Introduction, Maria Kaparakis-Liaskos & Chris McDevitt
1415-1445	Plenary
	The role of cell lysis in vesiculation, biofilm formation and predatory activity of bacterial vesicles
	Leo Eberl, University of Zurich, Switzerland
1445-1503	Invited speaker
	How bacteria fortify their multi-layered cell envelope
	Waldermar Vollmer, University of Queensland, Australia
SYM74 - Molec	ular Basis of Disease Short Talks – Room 210
Chairs	Sharon Prince & Ilona Concha Grabinger
1415-1425	The role of vesicular leptin receptor trafficking in prostate cancer metastasis
	Bukuru Nturubika, University of South Australia, Australia
1425-1435	Molecular basis of tumour predisposition in ribosomopathies
	Olga Zaytseva, John Curtin School of Medical Research, Australia
1435-1445	Enhancing CAR T cell therapy for glioblastoma using extracellular matrix degrading enzymes
	Zoe Day, La Trobe University, Australia
1445-1455	Investigating the role of hypoxia-immune tumour microenvironment in colorectal cancer using patient-derived organoids
	Ruobing Zhang, Monash University, Australia
1455-1505	Investigating the immunomodulatory properties of endothelial cell-derived apoptotic bodies
	Caitlin Vella, La Trobe Institute for Molecular Science, Australia
1505-1515	Dissecting protein quality control in neurodegenerative disease
	Jiamin Zhao, La Trobe University, Australia
SYM75 - Struct	ural Biology and Biophysics - Molecular mechanisms using Cryo-EM and dynamic protein complexes – Room 211
Chairs	Frances Separovic & Wai-Hong Tham
1415-1425	LDB proteins – from homodimers to tetramers to selective heterodimersation
	Jacqui Matthews, University of Sydney, Australia
1425-1435	Cryo-EM structure of SRP68/72 reveals an extended dimerization domain with RNA-binding activity
	Yichen Zhong, University of Sydney, Australia
1435-1445	Controlling a master regulator: elucidating the molecular mechanisms regulating the activity of the aaa atpase p97/vcp
	Isabelle Rouiller, University of Melbourne, Australia
1445-1455	CryoEM structure of a native fertilization complex of malaria parasites
	Melanie Dietrich, Walter & Eliza Hall Institute, Australia
1455-1505	The structural scope of the insulin receptor superfamily
	Nicholas Kirk, Walter & Eliza Hall Institute, Australia
1505-1515	Using cryo-EM to elucidate the structural implications of post-translational modifications on alpha-synuclein amyloid fibrils
	Aidan Grosas, University of Wollongong, Australia
Hot Topic 3 - Si	ngle molecule imaging – Room 212
Chairs	Winnie Tan & Vaishnavi Ananthanarayanan
1415-1425	Single-molecule super-resolution imaging of deleterious DNA damage
	Donna Whelan, La Trobe University, Australia
1425-1435	Improving the localisation precision for imaging cardiac sub-cellular remodelling
	Izzy Jayasinghe, University of NSW, Australia
1435-1445	Oligobodies: development of scFv-oligonucleotide conjugates for biomolecular target detection at the single-molecule level
	Conall McGuinness, Trinity College Dublin, Australia
1445-1455	Transcription factor dynamics in hippo signalling
	Ben Kroeger, Monash University, Australia
SYM76 - Climat	te Change Day - Effects and adaptations to climate change – Room 219
Chairs	Jade Kannangara & Sasha Tetu
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1415-1433	Invited Speaker	
	Adaptive genetic management of a wild population in the face of climate change: the case of the Helmeted Honeyeater	
	Diana Robledo-Ruiz, Monash University, Australia	
1433-1451	Invited Speaker	
	Gut microbial communities of marine fishes reflect ecological settings	
	Megan Huggett, Newcastle University, Australia	
1451-1501	Ancestral sequence reconstruction of PLA and PHB degrading enzymes	
	Santana Royan, CSIRO, Australia	
1501-1511	Inclusion of planetary health and indigenous world-view perspectives in developmental biology education	
	Tara Moynihan, Monash University, Australia	
Hot Topic 4 - I	Illuminating biology: using light to observe and manipulate the brain and body – Room 220	
Hot Topic 4 - I Chairs		
•	Illuminating biology: using light to observe and manipulate the brain and body – Room 220	
Chairs	Ethan Scott & Lucy Palmer	
Chairs	Ethan Scott & Lucy Palmer Closed loop optogenetic control in zebrafish	
Chairs 1415-1430	Illuminating biology: using light to observe and manipulate the brain and body – Room 220 Ethan Scott & Lucy Palmer Closed loop optogenetic control in zebrafish Itia Favre-Bull, University of Queensland, Australia	
Chairs 1415-1430	Illuminating biology: using light to observe and manipulate the brain and body – Room 220 Ethan Scott & Lucy Palmer Closed loop optogenetic control in zebrafish Itia Favre-Bull, University of Queensland, Australia Investigating neural circuits relevant to mental illness using optogenetics	
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Chairs 1415-1430 1430-1445	Illuminating biology: using light to observe and manipulate the brain and body – Room 220 Ethan Scott & Lucy Palmer Closed loop optogenetic control in zebrafish Itia Favre-Bull, University of Queensland, Australia Investigating neural circuits relevant to mental illness using optogenetics Elizabeth Manning, University of Newcastle, Australia Using optogenetic manipulation of the cytoskeleton to investigate cellular identity in pluripotent cells	

1515-1540 Afternoon Tea – Plenary Foyer

1540-1630	Plenary 8 & Jubilee Award Ceremony
	Session supported by Bioplatforms Australia
Room	Plenary Hall 3
Chair	Stephanie Gras
Speaker	Designing biology for a healthy planet and beyond Pamela Silver, Harvard University, USA
1630-1700	Awards, Prizes, Future Conference Presentations & Closing Remarks