

Young Investigator Symposium Series 2020  
PRELIMINARY PROGRAM – SUBJECT TO CHANGE



Victorian Infection  
& Immunity Network

# Young Investigator Symposium Series 2020

*FRIDAY 2 OCTOBER - PRELIMINARY PROGRAM – SUBJECT  
TO CHANGE*

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Young Investigator Symposium Series 2020  
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## Program-at-a-Glance 2020

<b>Monday 12 October: 10am – 12.45pm</b>
<b>Keynote speaker: Associate Professor Kimberley Kline, Nanyang Technological University, Singapore</b>
<b>Talks selected from abstracts</b>
<b>Technical workshop</b>
<b>Daily prize announcement</b>
<b>Tuesday 13 October: 10am – 12pm</b>
<b>Grant writing workshop and Q&amp;A</b> <ul style="list-style-type: none"><li>• Dr Sant-Rayn Pasricha, Walter and Eliza Hall Institute</li><li>• Dr Sally Roberts, veski</li><li>• Associate Professor Meredith O’Keeffe, Monash University and ARC College of Experts</li><li>• Associate Professor Michelle Tate, Hudson Institute of Medical Research and NHMRC Career Development Fellow</li><li>• Professor James Beeson, Burnet Institute</li></ul>
<b>Tuesday 13 October: 1pm – 2.30pm</b>
<b>Concurrent E-poster sessions (I and II)</b>
<b>Tuesday 13 October: 7pm – 8.15pm</b>
<b>Art in Science evening</b> <ul style="list-style-type: none"><li>• Marta de Menezes</li><li>• Science Gallery Melbourne</li></ul>
<b>Wednesday 14 October: 10am – 12pm</b>
<b>Careers panel and Q&amp;A</b> <ul style="list-style-type: none"><li>• Dr Krystal Evans</li><li>• Dr Jessica Borger</li><li>• Dr Michael Christie</li><li>• Dr Stephanie Tan</li><li>• Dr Ariel Achtman</li></ul>
<b>Wednesday 14 October: 1pm – 2.30pm</b>
<b>Concurrent E-poster sessions (III and IV)</b>
<b>Thursday 15 October: 10am – 12.45pm</b>
<b>Keynote speaker: Dr Amy Chung, Peter Doherty Institute of Infection and Immunity, University of Melbourne</b>
<b>Talks selected from abstracts</b>
<b>Technical workshop</b>
<b>Daily prize announcement</b>
<b>Friday 16 October: 10am – 1pm</b>
<b>Keynote speaker: Dr Con Panousis, CSL Ltd</b>
<b>Talks selected from abstracts</b>
<b>Technical workshops</b>
<b>Daily prize announcement</b>
<b>Grand prize announcement</b>

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**Monday 12 October**

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**Monday 12 October: 10am – 12:45pm**

10:00 – 10:10	<b>Welcome and Acknowledgement of Country</b>
10:10 – 10:40	<b>Keynote Speaker I</b> <b>Chair: Jason Paxman, La Trobe University, on behalf of the Organising Committee</b>
10:10	<b>Keynote speaker:</b> Associate Professor Kimberley Kline, Nanyang Technological University, Singapore
10:40 – 11:10	<b>Sciences Bites I</b> <b>Chairs: TBC</b>
10:40	Expression and induction of the glucocorticoid-induced protein GILZ are inhibited by type I IFN <b>Wendy Dankers, Centre for Inflammatory Diseases, Monash University School of Clinical Sciences at Monash Health, Monash University (PD)</b>
10:43	Exposure to <i>Plasmodium</i> sp. blood-stage impairs liver Trm cell-mediated immunity <b>Maria de Menezes, Department of Microbiology and Immunology, Peter Doherty Institute, University of Melbourne (PD)</b>
10:46	Bacterial outer membrane vesicles induce mitochondrial dysfunction and intrinsic apoptosis-mediated inflammation <b>Pankaj Deo, Biomedicine Discovery Institute, Department of Biochemistry and Molecular Biology, Monash University (PD)</b>
10:49	Molecular Assessment of Thoracic Empyema (MATE) <b>Jonathan Jacobson, Infection and Immunity, Murdoch Children's Research Institute (PD)</b>
10:52	Using genomics to inform vaccine design against <i>Streptococcus pyogenes</i> in remote Indigenous communities <b>Taylah James, Department of Microbiology and Immunology at the Peter Doherty Institute for Infection and Immunology, University of Melbourne (PG)</b>
10:55	Dissection of the Assembly and Function of the <i>Plasmodium</i> Export Machinery <b>Ethan Pitman, School of Medicine, Deakin University (PG)</b>
10:58	Antigen-Sampler Microfold Cells Orchestrate Microbe-Immune Interactions <b>Cao Wang, Walter and Eliza Hall institute of Medical Research (PG)</b>
11:01	The Role of the Short Chain Fatty Acid Butyrate in CD4+ T cell Immunity <b>Ariane Lee, Department of Microbiology and Immunology at the Peter Doherty Institute for Infection and Immunity, University of Melbourne (PG)</b>
11:10 – 11:25	<b>Technical workshop – GeneWorks</b>
11:25 – 12:25	<b>Oral Presentations I</b> <b>Chairs: TBC</b>
11:25	4D Lattice-light sheet microscopy reveals dynamic membrane reorganisation during <i>P. falciparum</i> invasion of erythrocytes <b>Niall Geoghegan, Walter and Eliza Hall institute of Medical Research (PD)</b>
11:35	Molecular interplay between SARS-CoV-2 and Human proteins for viral activation and entry, potential drugs and scope for new therapeutics

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	<b>Naveen Vankdari, Monash Biomedicine Discovery Institute and Department of Biochemistry and Molecular Biology, Monash University (PD)</b>
11:45	Interferon $\epsilon$ as a novel regulator of intestinal homeostasis <b>Eveline de Geus, Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research (PD)</b>
11:55	The chromatin remodeler RSC of <i>C. albicans</i> is compositionally distinct with important roles in the pathobiology of the fungus <b>Vinutha Balachandra, IITB-Monash Research Academy, Indian Institute of Technology Bombay, Mumbai, India &amp; Department of Biochemistry and Molecular Biology, Biomedicine Discovery Institute, Monash University (PG)</b>
12:05	Characterising the role of B cells in gastric cancer development <b>Lokman Pang, Olivia Newton John Cancer Research Institute (PG)</b>
12:15	Evaluation of serosurveillance to understand the micro-heterogeneity of sub-microscopic malaria and other malaria risk factors in Western Cambodia. <b>Merryn Roe, Burnet Institute &amp; School of Public Health and Preventive Medicine, Monash University (PG)</b>
<b>12:25 – 12.40</b>	<b>Concluding Remarks and Daily Prize Announcement</b>

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**Tuesday 13 October**

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**Tuesday 13 October: 10am – 12pm**

10:00 – 10:10	Welcome and Acknowledgement of Country
10:10 – 11:50	Grant-writing workshop Co-Chairs: Linda Reiling, Burnet Institute and Rhea Longley, Walter and Eliza Hall Institute
10:10	Dr Sant-Rayn Pasricha, Walter and Eliza Hall Institute
10:25	Dr Sally Roberts, veski
10:40	Associate Professor Meredith O’Keeffe, Monash University and ARC College of Experts
10:55	Associate Professor Michelle Tate, Hudson Institute of Medical Research and NHMRC Career Development Fellow
11:10	Professor James Beeson, Burnet Institute
11:25	Q&A with audience
11:50 – 12:00	Concluding Remarks

**Tuesday 13 October: 1pm – 2:30pm (POSTER I)**

13:00 – 13:10	Welcome and Acknowledgement of Country
13:10 – 14:30	E - POSTER SESSION I (concurrent with POSTER SESSION II) Chairs: TBC
13:10	Fosfomycin fails to eradicate <i>Klebsiella pneumoniae</i> in a dynamic bladder infection in vitro model. <b>Iain Abbott, Department of Infectious Diseases, The Alfred Hospital and Central Clinical School, Monash University (PG)</b>
13:13	Rational design of antisense oligonucleotides modulating the activity of TLR7/8 agonists. <b>Arwaf Alharbi, Centre for Innate Immunity and Infectious Diseases, Monash University and Hudson institute of Medical Research (PG)</b>
13:16	Langerhans cells drive Chronic Proliferative Dermatitis phenotype in SHARPIN mutant mice. <b>Holly Anderton, Inflammation, Walter and Eliza Hall Institute of Medical Research (PD)</b>
13:19	The Development of a Novel Antimalarial Class with a Delayed Mechanism of Action. <b>Brodie Bailey, Chemical Biology, Walter and Eliza Hall Institute of Medical Research (PG)</b>
13:22	Neonatal BCG vaccination induces long-term changes in circulating immune cells <b>Samantha Bannister, Infectious Diseases Research Group (MCRI), Department of Paediatrics (UoM), Murdoch Children’s Research Institute and University of Melbourne (PG)</b>
13:25	Tick Evasins: Inhibitors of Chemokine-mediated Inflammation Ram Bhusal, Department of Biochemistry and Molecular Biology, Monash University (PD)

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13:26	<p>Synergistic ceftazidime and tobramycin combinations for clinical hypermutable <i>Pseudomonas aeruginosa</i> isolates; an innovative dosing approach to enhance bacterial killing and mitigate resistance in a dynamic biofilm model <b>Hajira Bilal, Centre for Medicine Use and Safety, Monash Institute of Pharmaceutical Sciences, Monash University (PG)</b></p>
13:29	<p>Role of a phospholipid-targeting defensin against pathogenic infections and cancer <b>Guneet Bindra, Department of Biochemistry and Genetics, La Trobe Institute for Molecular Science (PG)</b></p>
13:32	<p>The effects of endogenous activin activity on the number and functional properties of testicular macrophages in adult mice <b>Sneha Biniwale, Hudson Institute of Medical Research, Monash University (PG)</b></p>
13:35	<p>Investigating the link between Gut Microbiota and Cerebral Malaria Pathogenesis <b>Lars Capule, School of Life Science, Department of Physiology, Anatomy, and Microbiology, La Trobe University (Hons)</b></p>
13:42	<p>A 'multi-omics' analysis of the novel aminobenzimidazoles reveals a depletion in haemoglobin derived peptides <b>Matthew Challis, Drug Delivery, Disposition and Dynamics, Monash Institute of Pharmaceutical Sciences (PG)</b></p>
13:45	<p>Glycolipid-peptide vaccination induces liver-resident memory CD8+ T cells that protect against rodent malaria <b>Yu Cheng Chua, Department of Microbiology &amp; Immunology, Peter Doherty Institute, University of Melbourne (PG)</b></p>
13:48	<p>'Unleashing' Host Cell Death Pathways to Promote Clearance of <i>Leishmania donovani</i> <b>Michelle Clark, Infectious Disease and Immune Defence, The Walter and Eliza Hall Institute of Medical Research (PG)</b></p>
13:51	<p>Novel fluorescent TNF reporter system for characterisation of TNF expression <b>Destiny Dalseno, Inflammation, Walter and Eliza Hall Institute (PG)</b></p>
13:54	<p>Identifying a specific inhibitor of the invasion of red blood cells by <i>Plasmodium falciparum</i> <b>Madeline Dans, Life Sciences, Burnet Institute (PG)</b></p>
13:57	<p>Serum IgA inhibits HIV-specific broadly neutralising antibody Fc functions <b>Samantha Davis, The Peter Doherty Institute for Infection and Immunity, The University of Melbourne (PG)</b></p>
14:00	<p>The role of RIP kinases in bacterial gut infection <b>Vik Ven Eng, Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research (PG)</b></p>
14:03	<p>The Flexible Usage of Diverse Cell Death Pathways Ensures Host Protection against <i>Salmonella</i> Typhimurium Infection <b>Sven Engel, Department of Microbiology and Immunology at the Peter Doherty Institute for Infection and Immunity, University of Melbourne (PG)</b></p>
14:06	<p>Investigating the role of the unfolded protein response during <i>Salmonella</i> Typhimurium infection <b>Qingqing Fan, Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research (Hons)</b></p>
14:09 – 14:15	<p><b>Concluding Remarks and Daily Prize Announcement</b></p>



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**Tuesday 13 October: 1pm – 2:30pm (POSTER II)**

13:00 – 13:10	Welcome and Acknowledgement of Country TBC, on behalf of the Organising Committee
13:10 – 14:30	E - POSTER SESSION II (concurrent with POSTER SESSION I) Chairs: TBC
13:10	Association between antibody profile, infecting serotypes and viral load in dengue-infected patients. <b>Jocelyn Foo, Department of Immunology and Infectious Disease, Monash University Malaysia (Hons)</b>
13:13	The efficacy of oral-fed geraniin as an antiviral agent against DENV-2 <b>Wen Han Foo, Jeffrey Cheah School of Medicine and Health Sciences, Monash University Malaysia (Hons)</b>
13:16	Group A streptococcal Enn proteins bind numerous human plasma proteins <b>Hannah Frost, Infection and Immunity, Murdoch Children's Research Institute (PD)</b>
13:19	Investigating the cargo selection mechanism of the Plasmodium translocon of exported proteins <b>Mikha Gabriela, Biomedical Research, Burnet Institute (PG)</b>
13:22	The Salmonella Effector SseK3 Targets Small Rab GTPases <b>Jiyao Gan, Department of Microbiology and Immunology, University of Melbourne and Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research (PG)</b>
13:25	Using combination immune checkpoint blockade to reinvigorate exhausted T cells in people living with HIV (PLWH) on antiretroviral therapy (ART) <b>Celine Gubser, Peter Doherty Institute of Infection and Immunity, University of Melbourne (PD)</b>
13:26	Pulmonary inflammation alters the lung disposition of a PEGylated liposome based inhalable nanomedicine <b>Shadab Haque, D4, Monash Institute of Pharmaceutical Sciences (PD)</b>
13:29	Evaluation of immune longevity through quantification and immunophenotyping of SARS-CoV2-specific memory B cells <b>Gemma Hartley, Immunology and Pathology, Monash University (PG)</b>
13:32	Characterising a novel Type VI DNase effector and immunity protein pair from <i>Acinetobacter baumannii</i> <b>Brooke Hayes, Department of Microbiology, Monash University (PG)</b>
13:35	Defining novel components of the innate immune response to unedited endogenous dsRNA <b>Jacki Heraud-Farlow, Cancer and RNA biology lab, St Vincent's Institute (PG)</b>
13:42	Modulation of host immune responses by ST34 <i>Salmonella typhimurium</i> <b>Sahampath Hettiarachchi, Department of Microbiology, Monash University and Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research (Hons)</b>
13:45	Lymphoma and metastatic melanoma induce phenotypic changes in fibroblastic reticular cells in secondary lymphoid organs

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	<b>Thomas Hueneburg, Department of Microbiology and Immunology, Peter Doherty Institute of Infection and Immunity, University of Melbourne (Masters)</b>
13:48	Influences on surgical antimicrobial prophylaxis decision making by surgical craft groups, anaesthetists, pharmacists and nurses in public and private hospitals. <b>Courtney Ierano, National Centre of Antimicrobial Stewardship, University of Melbourne and Peter Doherty Institute (PD)</b>
13:51	Epigenetic profiling of B cells in food allergy <b>Samira Imran, Murdoch Children's Research Institute (PG)</b>
13:54	Lactic acid produced by an optimal vaginal microbiota promotes cervicovaginal epithelial barrier integrity: implications for HIV transmission <b>Brianna Jesaveluk, Life Sciences, Burnet Institute and Department of Microbiology, Monash University (PG)</b>
13:57	Antimicrobial genes are packaged, protected and transferred by bacterial membrane vesicles produced by pathogenic bacteria. <b>Ella Johnston, Department of Physiology, Anatomy and Microbiology, La Trobe University (PG)</b>
14:00	Using serology to explore heterogeneity in malaria transmission in Southeast Myanmar <b>Ellen Kearney, Life Sciences, Burnet Institute (PG)</b>
14:03	A New Class of Antimalarials with an Unknown Mechanism of Action <b>Jomo Kigotho, Medicinal Chemistry, Monash Institute of Pharmaceutical Sciences (PG)</b>
14:06	Integrated immune dynamics define correlates of COVID-19 severity and antibody responses <b>Marios Koutsakos, Microbiology &amp; Immunology, University of Melbourne, Peter Doherty Institute (PD)</b>
<b>14:09 – 14:15</b>	<b>Concluding Remarks and Daily Prize Announcement</b>

**Tuesday 13 October: 7pm – 8:15pm**

<b>19:00-19:10</b>	<b>Welcome and Acknowledgement of Country</b> Co-Chairs: Catarina de Almeida, Peter Doherty Institute of Infection and Immunity, University of Melbourne and Nicole Campbell, Hudson Institute of Medical Research
<b>19:10 – 20:10</b>	<b>Art in Science Evening</b>
19:10	Marta de Menezes
19:40	Science Gallery Melbourne
<b>20:10 – 20:15</b>	<b>Concluding Remarks</b>

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**Wednesday 14  
October**

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**Wednesday 14 October: 10am – 12pm**

<b>10:00 – 10:10</b>	<b>Welcome and Acknowledgement of Country TBC, on behalf of the Organising Committee</b>
<b>10:10 – 11:50</b>	<b>Careers panel and Q&amp;A</b>
10:10	Dr Krystal Evans
10:25	Dr Jessica Borger
10:40	Dr Michael Christie
10:55	Dr Stephanie Tan
11:10	Dr Ariel Achtman
11:25	Q&A with audience
<b>11:50 – 12:00</b>	<b>Concluding Remarks</b>

**Wednesday 14 October: 1pm – 2:30pm (POSTER III)**

<b>13:00 – 13:10</b>	<b>Welcome and Acknowledgement of Country TBC, on behalf of the Organising Committee</b>
<b>13:10 – 14:30</b>	<b>E - POSTER SESSION III (concurrent with POSTER SESSION IV) Chairs: TBC</b>
13:10	Characterization of a new <i>Coxiella burnetii</i> effector that blocks cell death at host mitochondria <b>Robson Kriiger Loterio, Department of Microbiology and Immunology, The University of Melbourne / University of São Paulo (PG)</b>
13:13	Superinfection exclusion can prevent Chikungunya infection in Aedes mosquitoes <b>Mathilde Laureti, Vector Borne diseases, CSIRO (PG)</b>
13:16	Sleep disturbance and its impact on children with primary ciliary dyskinesia <b>Rachel Leong, Faculty of Medicine, Dentistry and Health Sciences, The University of Melbourne (Masters)</b>
13:19	Neuroimmune interaction of the sympathetic nervous system and antiviral immune responses <b>Keit Loi, Peter Doherty Institute, University of Melbourne (PG)</b>
13:22	Outcomes in patients who are overweight or obese hospitalised with COVID-19: an international, multi-centre analysis <b>Danielle Longmore, Infection and Immunity, Murdoch Children's Research Institute (PG)</b>
13:25	Transcriptional regulation of CCL17 production by Dexamethasone <b>Tanya Lupancu, Department of Medicine, University of Melbourne (PG)</b>
13:26	Prevention of Asplenic Pneumococcal Infection (PAPI): Protecting Asplenic Children and Adults Against Pneumococcal Disease and Identifying Optimal Immunisation Regimens

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	<b>Sarah Luu, Faculty of Medicine, Nursing and Health Sciences, Monash University (Hons)</b>
13:29	Antibiotic exposure across pregnancy and early life, and maternal and infant metabolomic and lipidomic profile <b>Toby Mansell, Inflammatory Origins, Murdoch Children's Research Institute (PD)</b>
13:32	The Immunomodulatory and Anti-Inflammatory Effects of the Dietary Compound, L-Sulforaphane <b>Nadia Mazarakis, Faculty of Veterinary and Agricultural Sciences, University of Melbourne (PG)</b>
13:35	Lipid Droplet Composition Changes During Viral Infection and Could Provide Insights into Their Antiviral Functions <b>Ebony Monson, Physiology, Anatomy and Microbiology, La Trobe University (PG)</b>
13:42	Insights into mechanism of action of Interleukin-1 receptor associated kinase-3 (IRAK3) <b>Trang Nguyen, La Trobe University (PG)</b>
13:45	CD1a-restricted T cells: a subset of "unconventional" T cells like no other <b>Catriona Nguyen-Robertson, Department of Microbiology and Immunology, University of Melbourne, Peter Doherty Institute for Infection and Immunity (PG)</b>
13:48	High Seroprevalence Of Viral Hepatitis Among Animal Handlers In Abeokuta, Nigeria <b>Adeolu Oluremi, Medical Laboratory Science, Ladoke Akintola University of Technology, Nigeria (PG)</b>
13:51	Fatal attractants: antibiotics that enhance neutrophil clearance of <i>Staphylococcus aureus</i> infections <b>Jennifer Payne, Biomedicine Discovery Institute and Department of Biochemistry and Molecular Biology, Monash University (PD)</b>
13:54	Comparison of Two Pre-clinical Animal Models of Non-Alcoholic Steatohepatitis <b>Cheng Peng, Drug Discovery Biology, Monash Institute of Pharmaceutical Sciences (RA)</b>
13:57	Transcriptomic analysis of naïve CD4+ T cells in peanut allergic adolescents <b>Stephen Peng, Department of Pediatrics, University of Melbourne (Hons)</b>
14:00	The role of citrullination on defensin function in innate defence and cancer <b>Minuri Ratnayake, Department of Biochemistry and Genetics, La Trobe University (Masters)</b>
14:03	Identifying novel host resistance factors in <i>Toxoplasma gondii</i> infection <b>Ushma Ruparel, Department of Infectious Disease and Immune Defence, The Walter and Eliza Hall Institute of Medical Research (PG)</b>
14:06	Investigating the role of macrophages in dying cell fragmentation <b>Jascinta Santavanond, Department of Biochemistry and Genetics, La Trobe Institute for Molecular Science (PG)</b>
<b>14:09 – 14:15</b>	<b>Concluding Remarks and Daily Prize Announcement</b>

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**Wednesday 14 October: 1pm – 2:30pm (POSTER IV)**

13:00 – 13:10	<b>Welcome and Acknowledgement of Country TBC, on behalf of the Organising Committee</b>
13:10 – 14:30	<b>E - POSTER SESSION IV (concurrent with POSTER SESSION III) Chairs: Nicole Messina, Murdoch Children's Research Institute and Carlo Giannangelo, Monash Institute of Pharmaceutical Sciences</b>
13:10	High burden of reproductive tract infections and other poor sexual and reproductive health indicators in pregnant women in East New Britain Province of Papua New Guinea <b>Michelle Scoullar, Maternal, child and adolescent health, Burnet Institute (PG)</b>
13:13	A synergistic exacerbation between COVID-19 and tuberculosis predicted by RNA-seq comparative profiling <b>Dylan Sheerin, Infectious Diseases and Immune Defence , The Walter and Eliza Hall Institute of Medical Research (PD)</b>
13:16	Maurer's cleft tethers – is tethering important for malarial adhesion? <b>Mohini Shibu, Biochemistry and Molecular Biology, The University of Melbourne (PG)</b>
13:19	Genomic surveillance for antimicrobial resistance in non-typhoidal <i>Salmonella enterica</i> <b>Cheryll Sia, Department of Microbiology and Immunology, University of Melbourne (PG)</b>
13:22	Novel 3D-compounds to fight malaria in a time of drug resistance <b>Liana Theodoridis, Department of Physiology, Anatomy and Microbiology, La Trobe University (Hons)</b>
13:25	Interleukin-18 is crucial to the development of 1 kidney/DOCA/salt-induced renal inflammation and elevated blood pressure <b>Jordyn Thomas, Department of Physiology, Anatomy and Microbiology, La Trobe University (PG)</b>
13:26	Resolving IncL/IncM plasmid incompatibility using CRISPR-Cas9 system <b>Aurelie Tsee, Department of Physiology, Anatomy and Microbiology, La Trobe University (PG)</b>
13:29	The Impacts of Influenza Virus NS1 Proteins on Viral Compatibility and Regulation of Innate Immune Responses <b>Yeu-Yang Tseng, The WHO Collaborating Centre for Reference and Research on Influenza, The Peter Doherty Institute for Infection and Immunity, University of Melbourne (PD)</b>
13:32	Compatibility and Regulation of Innate Immune Responses Muhammad Ikhtear Uddin, Department of Microbiology, Biomedicine Discovery Institute, Monash University (PG)
13:35	Novel antigen within the RPL6 protein of Plasmodium berghei confers sterile immunity against malaria in mice <b>Ana Maria, Valencia-Hernandez, Department of Microbiology and Immunology, Peter Doherty Institute, University of Melbourne (PG)</b>
13:42	Establishing a High Throughput Sequencing Approach for Mapping Thymocyte-stromal Interactions During T Cell Development <b>Yi (Angela) Wang, Department of Microbiology &amp; Immunology, University of Melbourne (Hons)</b>

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13:45	<p><i>Salmonella</i> Typhimurium induces cIAP1 degradation to induce death in macrophages  <b>Madeleine Wemyss, Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research (PG)</b></p>
13:48	<p>Large genomic deletions in <i>Legionella pneumophila</i> identify new genes influencing intracellular replication and lung infection  <b>Raissa Wibawa, Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research (PG)</b></p>
13:51	<p>Autoimmune epididymo-orchitis in the mouse: Indolamine deoxygenase-1 (Ido-1) expression and the effects of exogenous follistatin treatment  <b>Rukmali Wijayarathna, Centre for Reproductive Health, Hudson Institute of Medical Research (PD)</b></p>
13:54	<p>Development and Homeostasis of Unconventional T cells  <b>Calvin Xu, The Peter Doherty Institute of Infection and Immunity, Department of Microbiology and Immunology, The University of Melbourne (PG)</b></p>
13:57	<p><b>Untangling the roles of T follicular helper (Tfh)-germinal center (GC) response to helminth infection</b>  Aidil Zaini, Monash Biomedicine Discovery Institute, Monash University (PG)</p>
14:00	<p>Unravelling immunity towards seasonal influenza vaccine in haematopoietic stem cell transplant recipients  <b>Wuji Zhang Peter Doherty Institute University of Melbourne (PG)</b></p>
14:03	<p>The development and functional fitness of type 1 conventional dendritic cells require the transcription factor DC-SCRIPT  <b>Shengbo Zhang, Walter and Eliza hall institute and University of Melbourne (PG)</b></p>
14:06	<p>Antimicrobial peptides and their antibiofilm effects  <b>Maryam Ghahri, Department of Biochemistry and Biotechnology, Faculty of Science, Engineering and Technology, Swinburne University of Technology (PG)</b></p>
14:09 – 14:15	<p><b>Concluding Remarks and Daily Prize Announcement</b></p>

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**Thursday 15  
October**



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**Thursday 15 October: 10am – 12:45pm**

10:00-10:10	Welcome and Acknowledgement of Country TBC, on behalf of the Organising Committee
10:10 – 10:40	Keynote Speaker II Chair: TBC
10:10	<b>Keynote speaker:</b> Dr Amy Chung, Peter Doherty Institute of Infection and Immunity, University of Melbourne
10:40 – 11:10	Sciences Bites II Chairs: TBC
10:40	Allergen-specific memory B cell numbers and their transcription profile are affected within 16 weeks of sublingual immunotherapy for ryegrass pollen allergy <b>Craig McKenzie, Department of Immunology and Pathology, Central Clinical School, Monash University (PD)</b>
10:43	Mode of birth and risk of infection-related hospitalisation in childhood: A population cohort study of 7.17 million births from four countries <b>Jessica Miller, Murdoch Children's Research Institute (PD)</b>
10:46	Functional overlap of different cell death pathways ensures host protection against intracellular bacterial pathogens <b>Marcel Doerflinger, Walter and Eliza Hall institute of Medical Research (PD)</b>
10:49	Characterizing the molecular basis of <i>Klebsiella pneumoniae</i> zinc tolerance <b>Eve Maunders, Department of Microbiology and Immunology, The Peter Doherty Institute for Infection and Immunity, University of Melbourne (PD)</b>
10:52	TCR repertoire and transcriptome differs between optimal HLA-A*02:01- and high-risk HLA-A*24:02-restricted CD8+ T cell immunity against influenza A virus <b>So Young Chang, Department of Microbiology and Immunology at the Peter Doherty Institute for Infection and Immunity, University of Melbourne (PG)</b>
10:55	Investigating the role of <i>Plasmodium falciparum</i> exported proteins that bind the new permeability pathway complex protein RhopH2 <b>Thorey Jonsdottir, Burnet Institute (PG)</b>
10:58	Is ovarian infection the missing piece in the puzzle of <i>Chlamydia</i> -associated infertility? <b>Urooza Sarma, Department of Anatomy and Developmental Biology, Monash Biomedicine Discovery Institute, Monash University (PG)</b>
11:01	Anti-pneumococcal defences are altered in house-dust mite aeroallergen challenged mice <b>Angelica Papanicolaou, School of Health and Biomedical Sciences, RMIT University (PG)</b>
11:10 – 11:25	Technical workshop – BMG Labtech
11:25 – 12:25	Oral Presentations II Chairs: TBC
11:25	Quantification of membrane vesicles for investigation of their immunological properties

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	<b>Natalie Bitto, Department of Physiology, Anatomy and Microbiology, La Trobe University (PD)</b>
11:35	Identification of neoepitopes from tumour biopsies: how low can you go? <b>Sri Ramarathinam, Department of Biochemistry and Molecular Biology, Infection and Immunity Program, Biomedicine Discovery Institute, Monash University (PD)</b>
11:45	Uncovering mammary gland-resident macrophages by 3D and intravital imaging <b>Caleb Dawson, Walter and Eliza Hall institute of Medical Research (PD)</b>
11:55	A V Delta 3+ subset of MR1 reactive gamma delta T cells recognise the side of the MR1 molecule <b>Michael Rice, Infection and Immunity Program and Department of Biochemistry and Molecular Biology, Biomedicine Discovery Institute, Monash University (PG) (Abstract Withheld)</b>
12:05	The molecular basis for zinc uptake via <i>Streptococcus pneumoniae</i> AdcAll <b>Marina Župan, Department of Microbiology and Immunology, The Peter Doherty Institute for Infection and Immunity Peter Doherty Institute for Infection and Immunity, University of Melbourne (PG)</b>
12:15	Liver resident CD4 T cell in malaria infection <b>Matthias Enders, Department of Microbiology and Immunology, Peter Doherty Institute for Infection and Immunity, University of Melbourne (PG)</b>
<b>12:25 – 12.40</b>	<b>Concluding Remarks and Daily Prize Announcement</b>

Young Investigator Symposium Series 2020  
PRELIMINARY PROGRAM – SUBJECT TO CHANGE

**Friday 16 October**

Young Investigator Symposium Series 2020  
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**Friday 16 October: 10am – 1pm**

10:00 – 10:10	<b>Welcome and Acknowledgement of Country</b> <b>Emma McHugh, on behalf of the Organising Committee</b>
10:10 – 10:40	<b>Keynote Speaker III</b> <b>Chair: Emma McHugh, Department of Biochemistry and Molecular Biology, University of Melbourne</b>
10:10-10:40	<b>Keynote speaker: Dr Con Panousis, CSL Ltd</b>
10:40 – 11:10	<b>Sciences Bites III</b> <b>Chairs: TBC</b>
10:40	Neural regulation of leukocyte trafficking and immunity <b>Sapna Devi, Department of Microbiology and Immunology at the Peter Doherty Institute for Infection and Immunity, University of Melbourne (PD)</b>
10:43	Polymyxins bind to the cell surface of unculturable <i>Acinetobacter baumannii</i> and cause unique dependent resistance <b>Yan Zhu, Biomedicine Discovery Institute, Monash University (PD)</b>
10:46	Selectively targeting the nlrp3 inflammasome to attenuate diabetes-associated atherosclerosis <b>Arpeeta Sharma, Baker Heart and Diabetes Institute (PD)</b>
10:49	$\beta$ -adrenergic regulation of macrophage immunometabolism <b>Amanda Peterson, Monash Institute of Pharmaceutical Science, Monash University (PG)</b>
10:52	A novel role of apoptotic dendritic cells as antigen presenting entities within immune settings <b>Amy Hodge, La Trobe Institute for Molecular Science, La Trobe University (PG)</b>
10:55	The epidemiology of invasive <i>Staphylococcus aureus</i> and Group A <i>Streptococcus</i> in Fiji, a prospective study from 2018-2019 <b>Li Jun Thean, Murdoch Children's Research Institute (PG)</b>
10:58	Using Polyhydroxyalkanoate Beads as Vaccine Delivery Carriers <b>Devi Jenika, Department of Biochemistry and Molecular Biology, Bio21 Molecular Science and Biotechnology Institute, University of Melbourne (PG)</b>
11:05 – 11:20	<b>Technical workshop – Perkin Elmer</b>
11:20 – 12:20	<b>Oral Presentations III</b> <b>Chairs: TBC</b>
11:25-11:35	The importance of MAIT cells revealed through the discovery of a rare human allele that renders MR1 unable to present microbially-derived stimulatory ligand <b>Lauren Howson, Infection and Immunity Program and Department of Biochemistry and Molecular Biology, Biomedicine Discovery Institute, Monash University (PD)</b>
11:35-11:45	SUR2, a novel therapeutic target for <i>H. pylori</i> associated diseases <b>Sohinee Sarkar, Murdoch Children's Research Institute (PD)</b>
11:45-11:55	Discovering the anticipatory functions of innate cells <b>Cyril Seillet, Walter and Eliza Hall Institute (PD)</b>

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11:55-12:05	Investigating transcriptional correlates of naturally-acquired immunity to malaria <b>Stephanie Studniberg, Walter and Eliza Hall Institute (PG)</b>
12:05-12:15	TBK1 and IKKepsilon act redundantly to mediate NF-kappaB activation downstream of Stimulator of Interferon Genes (STING) <b>Katherine Balka, Department of Anatomy and Developmental Biology, Monash Biomedicine Discovery Institute, Monash University (PG)</b>
12:15-12:25	Suboptimal SARS-CoV2-specific CD8+ T-cell response associated with the prominent HLA-A*02:01 phenotype <b>Jennifer Habel, Department of Microbiology and Immunology, University of Melbourne, at the Peter Doherty Institute for Infection and Immunity, University of Melbourne (PG)</b>
<b>12:25 – 12:40</b>	<b>Technical workshop – Abcam</b>
<b>12:40 – 13:00</b>	<b>Daily and Grand prize announcement and closing remarks Chairs: Heidi Drummer, Burnet Institute and Paul Hertzog, Hudson Institute of Medical Research</b>

**Hons** = Honours Student, **Masters** = Masters Student,  
**PG** = Postgraduate Student, **PD** = Postdoctoral Researcher, **RA** = Research Assistant