Public Lecture: WHO global alerts and the traveller!
5:00pm - 6:00pm
Bellevue Ballroom 2

Emerging and re-emerging epidemic diseases pose an ongoing threat to global health security. The World Health Organization (WHO) works to provide expert guidance and lead global networks and systems to anticipate, prevent and control epidemic and pandemic diseases. When a significant public health event takes place, WHO’s comprehensive global alert and response system ensures that information is available and response operations are coordinated effectively. To do this, the organization works closely with national governments. Our invited speakers will discuss the threat of introduced infectious disease to Australia and how WHO contributes to disease prevention and control.

- **Professor Chris Baggoley**, AO is Chief Medical Officer of the Australian Government Department of Health, Ministry of Health of Australia. And is the principal medical adviser to the Minister and the Australian Department of Health. He has served as Chair of the WHO International Health Regulations (IHR) Emergency Committee concerning Middle East respiratory syndrome coronavirus (MERS-CoV).

- **Dr Paul Effler**, is Medical Coordinator, Communicable Disease Control Directorate, WA Department of Health. He serves as a member of the WHO Global Outbreak and Response Network (GOARN) Steering Committee.

- **Professor Tania Sorrell**, AM is Director of the Marie Bashir Institute for Infectious Diseases and Biosecurity, The University of Sydney; Director, Centre for Infectious Diseases and Microbiology, The Westmead Institute for Medical Research; Deputy Dean (Clinical), Sydney Medical School. She is a regular expert contributor to the WHO, and directs the NHMRC/Centres of Research Excellence ‘Protecting the public from emerging infectious diseases’ project.

**Break**
6:00pm-6:15pm

**Welcome and Awards Ceremony**
6:15pm - 6:30pm
Bellevue Ballroom 2

**Bazeley Oration**
6:30pm - 7:30pm
Bellevue Ballroom 2
Chair:

**Ulrike Holzgrabe**
Small Molecules for Treatment of Critical Infectious Diseases

Sponsored by:

**Welcome Function**
7:30pm - 9:00pm
Exhibition Hall
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:30am - 8:30am</td>
<td>Nancy Millis Student Mentoring Breakfast</td>
<td>Meeting Room 3</td>
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<tr>
<td>8:30am - 9:15am</td>
<td>Plenary 1: The flow of antimicrobial resistance genes from the environment to the patient and back!</td>
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<td>8:30am - 9:15am</td>
<td>Plenary 2: Evolution of antibiotic resistance at very low levels of antibiotics and heavy metals</td>
<td>Bellevue Ballroom 2</td>
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<tr>
<td>10:00am - 10:30am</td>
<td>Morning Tea</td>
<td>Exhibition Hall</td>
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<tr>
<td>10:30am - 12:00pm</td>
<td>Controversies in Diagnosis of Infectious Diseases</td>
<td>Bellevue Ballroom 2</td>
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<tr>
<td>10:30am - 12:00pm</td>
<td>Respiratory Viruses</td>
<td>Meeting Room 1</td>
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<tr>
<td>10:30am - 12:00pm</td>
<td>A Healthy Biosphere</td>
<td>Meeting Room 2</td>
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<td>A Healthy Biosphere</td>
<td>Meeting Room 2</td>
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**Plenary 1**
- **Chair:** Tim Inglis

Peter Hawkey
The flow of antimicrobial resistance genes from the environment to the patient and back!

**Plenary 2**
- **Chair:** Jon Iredell

Dan Andersson
Evolution of antibiotic resistance at very low levels of antibiotics and heavy metals

**Morning Tea**
- **Location:** Exhibition Hall

**Controversies in Diagnosis of Infectious Diseases**
- **Chair:** John Turnidge

- **10:30 AM** Deborah Williamson
  Using genomics to track the emergence and evolution of staphylococci in hospital and community settings in Australasia

- **11:00 AM** Matthew Skinner
  Controversies in HIV Care

- **11:30 AM** David Speers
  Enteroviruses - a difficult phylogenetic journey

**Respiratory Viruses**
- **Chair:** Megan Lloyd

- **10:30 AM** David Smith
  Predicting and tracking the evolution and spread of influenza

- **11:00 AM** Christopher Blyth
  RSV and Asthma

- **11:30 AM** Chris Baggoley
  Middle Eastern Respiratory Syndrome

**A Healthy Biosphere**
- **Chair:** Gupta Vadakattu

- **10:30 AM** Torsten Thomas
  Evolution and function of eukaryotic-like proteins in microbial sponge symbionts

- **11:00 AM** Inka Vanwonerghem
  Exploring methanogen diversity, have we only seen the tip of the iceberg?
11:30 AM  Deepak Kumaresan  
Ecological engineers - soil microbes as facilitators in restoration ecology  
abs# 12

**Drug Discovery**
10:30am - 12:00pm  
Meeting Room 3  
Chair: Mitali Sarkar-Tyson

10:30 AM  Brian Conlon  
Teixobactin - a new antibiotic that kills by dual target inhibition  
abs# 13

11:00 AM  Peter J Myler  
Advancing Infectious Disease Research through Structural Genomics  
abs# 14

11:30 AM  Roisin M McMahon  
Bacterial disarmament: DSB proteins as anti-virulence targets  
abs# 15

**Lunch**
12:00pm - 1:30pm  
Exhibition Hall

**Thermofisher Workshop**
12:15pm - 1:15pm  
Bellevue Ballroom 2

**SIG Meeting: History SIG**
12:10pm - 12:40pm  
Meeting Room 1

**SIG Meeting: Microbial Ecology**
12:10pm - 12:40pm  
Meeting Room 2

**Nancy Millis Student/ECR Mentoring Lunch**
12:00pm - 1:30pm  
Meeting Room 3

**Patient Testing and Infectious Diseases (Serology SIG)**
1:30pm - 3:00pm  
Bellevue Ballroom 2  
Chair: Justin Morgan

1:30 PM  Joan L Faoagali  
Near patient Testing and Infectious Diseases: Impacts and Challenges for Microbiology and Microbiologists, 2016 and Beyond  
abs# 16

1:45 PM  Suresh Mahalingam  
New Therapeutics and Vaccine Against Chikungunya Virus  
abs# 17

2:00 PM  Johanna Dups  
An outbreak of infectious syphilis in northern Australia, 2011-2015: the epidemiology and public health response  
abs# 18

2:15 PM  Enrico Coiera  
Social media - a new tool in the management of communicable and non-communicable disease  
abs# 19

2:30 PM  Tony Field  
Impact of Automation in the Diagnostic Laboratory  
abs# 20

2:45 PM  Linda Hueston  
Zika - the last Arbovirus  
abs# 21

**Proffered papers 1 - Division 2: Viral Immunology**
1:30pm - 2:45pm  
Meeting Room 1  
Chair: Demelza Ireland

1:30 PM  Kritu Panta  
Zika Virus Neutralising Antibodies in West Australian Travelers  
abs# 22

1:45 PM  Laura L Masters  
MCMV immunomodulatory genes are important for viral persistence  
abs# 23
Kevin Downard
Building Better Inhibitors to Influenza by Understanding the Molecular Basis of Antiviral Binding to their Target Proteins  

Suifang Ye
Rotavirus infections in the vaccine era – a community-based birth cohort study  

Timo Ernst
Monitoring of DENV-2 in a Western Australian traveller cohort shows persistence of a novel Cosmopolitan genotype lineage that emerged in Indonesia in 2011

Proffered Papers 2 - Division 3: Microbial Ecology
1:30pm - 2:45pm  
Meeting Room 2
Chair: Elizabeth Watkin

1:30 PM  
Gupta Vadakattu
Advantages, Concerns and Caveats with omics data processing – a microbial ecologist perspective  

1:45 PM  
Andrea Paparini
Spatial and temporal analysis of microbiome assemblages in wastewater plants  

2:00 PM  
Navdeep Dhami
Microbial community dynamics and carbonate precipitation during biostimulation and bioaugmentation in soils for sustainable construction materials  

2:15 PM  
Andrea R McWhorter
In vitro invasive capacity of Salmonella strains into sections of the layer hen oviduct  

2:30 PM  
TBA
Not available at time of printing

Proffered papers 3 - Division 4: Molecular Microbiology
1:30pm - 2:45pm  
Meeting Room 3
Chair: Alfred Chin Yen Tay

1:30 PM  
Georgina L. Pollock
Possible synergistic roles of the enteropathogenic Escherichia coli Type III effectors NleB and NleF  

1:45 PM  
Dennis J Nürnberg
Expanding the solar spectrum used by photosynthesis - The cyanobacterium Crocococcidiopsis thermals grown under far-red light  

2:00 PM  
Marina Harper
Perturbation of the two-component signal transduction system, BprRS, results in attenuated virulence and motility defects in Burkholderia pseudomallei  

2:15 PM  
Andrew Robinson
Single-molecule imaging of DNA polymerases in E. coli  

2:30 PM  
Luke V Blakeway
Moraxella catarrhalis ModM: an epigenetic regulator with a potential role in otitis media
3 minute Thesis - Division 2
2:45pm - 3:00pm Meeting Room 1
Chair: Demelza Ireland

2:45 PM **Chloe A Thomson**
Health Seeking Behaviours and Knowledge of Infectious Disease Risks in Western Australian Travellers to Southeast Asian Destinations: An Airport Survey   
abs# 37

2:48 PM **Meng Wang**
Does BCG vaccination influence the immune response to *Plasmodium falciparum* in humans?   
abs# 38

2:51 PM **Kirstie M. Mangas**
The development of a protein-based vaccine against disease caused by *Mycobacterium ulcerans*   
abs# 39

2:54 PM **Shirin Ansari**
Filamentation as a Survival Strategy: Identification of a Novel Regulator of Cell Division During Stress   
abs# 40

3 minute Thesis - Division 3
2:45pm - 3:00pm Meeting Room 2
Chair: Alfred Chin Yen Tay

2:45 PM **Cecilia Li**
Inositol pyrophosphate PP-IPs is crucial for the metabolic adaptation of *Cryptococcus neoformans* to the host environment and for its dissemination to the central nervous system   
abs# 41

2:48 PM **Katharina Richter**
Bug Wars – Battlefront Biofilms   
abs# 42

2:51 PM **Ramya Movva**
Bacterial metabolism of thiopurines: evidence for an alternative purine nucleotide salvage pathway   
abs# 43

2:54 PM **Stephanie J Lamont-Friedrich**
Chlorine-rich plasma polymer coating for the prevention of attachment of pathogenic fungal cells onto materials surfaces   
abs# 44

3 minute Thesis - Division 4
2:45pm - 3:00pm Meeting Room 3
Chair: Elizabeth Watkin

2:45 PM **Alysia M Parker**
Genetic characterization of Australian *Mycoplasma bovis* isolates through whole genome sequencing analysis   
abs# 45

2:48 PM **Alyce Taylor-Brown**
Culture-independent genomics supports pathogen discovery for uncultivable bacteria within the genus *Chlamydia*   
abs# 46

2:51 PM **Shakeel Mowlaboccus**
Transcontinental changes in the population structure of *Neisseria meningitidis* and coverage of the BEXSERO® vaccine in Western Australia and Victoria   
abs# 47

2:54 PM **Drew A Hall**
Characterising quorum-sensing antiactivation in *Mesorhizobium loti* R7A   
abs# 48

Afternoon Tea
3:00pm - 3:30pm Exhibition Hall
**Emerging Technologies in the Clinical Laboratory**

3:30pm - 5:00pm  
Chair: Deborah Williamson  
Bellevue Ballroom 2

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<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
<th>Title</th>
<th>Location</th>
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<tbody>
<tr>
<td>3:30 PM</td>
<td>Bernadette M Saunders</td>
<td>MicroRNA as biomarkers for infection - can they be used to aid diagnosis and monitoring response to tuberculosis infection?</td>
<td>abs# 49</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Glenys R Chidlow</td>
<td>Detecting viruses and emerging viral pathogens – Challenges for Public Health Laboratories</td>
<td>abs# 50</td>
</tr>
<tr>
<td>4:30 PM</td>
<td>Tim Inglis</td>
<td>Culture-independent diagnostic tests for sepsis and AMR</td>
<td>abs# 51</td>
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**Viral Host interactions**

3:30pm - 5:00pm  
Chair: Roy Hall  
Meeting Room 1

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<thead>
<tr>
<th>Time</th>
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<th>Title</th>
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<tbody>
<tr>
<td>3:30 PM</td>
<td>Anna P Durbin</td>
<td>The Dengue Human Infection Model: A tool to advance vaccine development and the search of immune correlates of protection</td>
<td>abs# 52</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Weisan Chen</td>
<td>influenza A virus Nucleoprotein is a major target of immunodominant CD8+ and CD4+ T cell responses</td>
<td>abs# 53</td>
</tr>
<tr>
<td>4:30 PM</td>
<td>Lara J Herrero</td>
<td>The increasing global burden of mosquito-transmitted diseases; the on-going search for answers</td>
<td>abs# 54</td>
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**Global Climate and Health Ecosystem**

3:30pm - 5:00pm  
Chair: Torsten Thomas  
Meeting Room 2

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<thead>
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<th>Time</th>
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<tbody>
<tr>
<td>3:30 PM</td>
<td>Ben Woodcroft</td>
<td>Gene- and genome-centric metagenomic analysis of complex microbial communities along a permafrost thaw gradient</td>
<td>abs# 55</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Laura Weyrich</td>
<td>Analyzing ancient bacterial DNA locked in Antarctica to understand past climate change</td>
<td>abs# 56</td>
</tr>
<tr>
<td>4:30 PM</td>
<td>Deirdre B Gleeson</td>
<td>Impact of pH on microbial succession during plant residue decomposition</td>
<td>abs# 57</td>
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**Modelling Infectious Disease**

3:30pm - 5:00pm  
Chair: Scott Beatson  
Meeting Room 3

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<thead>
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<th>Time</th>
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<th>Location</th>
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<tbody>
<tr>
<td>3:30 PM</td>
<td>Jodie McVernon</td>
<td>The Pertussis Perplex – Shifting Schedules and Strategies</td>
<td>abs# 58</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>George Milne</td>
<td>Modelling infectious disease systems to quantify intervention effectiveness and cost-effectiveness, with application to influenza and dengue</td>
<td>abs# 59</td>
</tr>
<tr>
<td>4:30 PM</td>
<td>Hannah C Moore</td>
<td>Understanding Respiratory Syncitial Virus: can mathematical models help?</td>
<td>abs# 60</td>
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**Break**  
5:00pm - 5:15pm

**Award Ceremony**

5:15pm - 5:30pm  
Bellevue Ballroom 2
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<tr>
<th>Event</th>
<th>Time</th>
<th>Venue</th>
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<tbody>
<tr>
<td><strong>Jim Pittard Lecture</strong></td>
<td>5:30pm - 5:50pm</td>
<td>Bellevue Ballroom 2</td>
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<tr>
<td>Chair: Jon Iredell</td>
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<tr>
<td><strong>Jaclyn Pearson</strong></td>
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<td>The orchestration of life and death by bacterial gut pathogens</td>
<td>abs# 61</td>
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<tr>
<td><strong>Frank Fenner Lecture</strong></td>
<td>5:50pm - 6:10pm</td>
<td>Bellevue Ballroom 2</td>
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<td>Chair: Jon Iredell</td>
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<td><strong>Kate Seib</strong></td>
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<tr>
<td>Developing vaccines for bacterial chameleons</td>
<td>abs# 62</td>
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<tr>
<td><strong>Frank Fenner Lecture</strong></td>
<td>6:10pm - 6:30pm</td>
<td>Bellevue Ballroom 2</td>
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<tr>
<td>Chair: Jon Iredell</td>
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<tr>
<td><strong>Scott Beatson</strong></td>
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<tr>
<td>Sequential acquisition of virulence and fluoroquinolone resistance has shaped the evolution of <em>Escherichia coli</em> ST131</td>
<td>abs# 63</td>
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<tr>
<td><strong>Lyn Gilbert Lecture</strong></td>
<td>6:30pm - 7:00pm</td>
<td>Bellevue Ballroom 2</td>
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<td>Chair: Jon Iredell</td>
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<tr>
<td><strong>David Smith</strong></td>
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<tr>
<td>Delivering diagnostic microbiology: keep it interesting, keep it relevant and keep your eyes on the prize</td>
<td>abs# 64</td>
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<tr>
<td><strong>Trade Night Drinks</strong></td>
<td>7:00pm - 8:00pm</td>
<td>Exhibition Hall</td>
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<tr>
<td><strong>Annual General Meeting</strong></td>
<td>7:30pm - 8:30pm</td>
<td>Bellevue Ballroom 2</td>
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</table>
TUESDAY 5TH JULY

Plenary 3
8:30am - 9:15am Bellevue Ballroom 2
Chair: Allison Imrie

Anna P Durbin
Zika virus vaccine development: design and implementation strategies abs# 65

Plenary 4
9:15am - 10:00am Bellevue Ballroom 2
Chair: Charlene Kahler

Brian Conlon
Staphylococcus aureus persisters – how they form and how to kill them abs# 66

Morning Tea
10:00am - 10:30am Exhibition Hall

ASA Session - Antimicrobial Resistance
10:30am - 12:00pm Bellevue Ballroom 2
Chair: Roy Robins-Browne

10:30 AM Geoffrey Coombs
The Australian Group on Antimicrobial Resistance (AGAR) – An Overview of Australia’s National Antimicrobial Resistance Active Surveillance Program abs# 67

11:00 AM John Turnidge
Strategies for Controlling Antimicrobial Resistance abs# 68

11:20 AM Owen Robinson
Antimicrobial Stewardship abs# 69

11:40 AM Peter Hawkey
The UK AMR initiative- will it have an impact? abs# 70

Arboviruses
10:30am - 12:00pm Meeting Room 1
Chair: David Smith

10:30 AM Allison Imrie
The West Australian Traveller Cohort: Returned Travellers with Well-Defined Flavivirus Infection abs# 71

11:00 AM Scott Ritchie
From “spray ‘em and slay ‘em” to “Rear and Release” abs# 72

11:20 AM David T Williams
Killer mozzies and their mutant swarms: Evolutionary studies of Murray Valley encephalitis virus abs# 73

11:40 AM Peter Neville
Unravelling Exotic Mosquito Incursions at Australian First Ports of Entry: 2012-2016 abs# 74
**Geomining**

10:30am - 12:00pm  
Meeting Room 2  
Chair: Andrea Paparini

10:30 AM **Elizabeth L Watkin**  
*Acidihalobacter prosperus*, a halophilic acidophile, has unique mechanisms to survive high chloride concentrations at low pH

11:00 AM **Carla Zammit**  
Mining with Microbes

11:20 AM **Laura Machuca**  
Microbiologically induced corrosion: Current knowledge, research and future needs

11:40 AM **John Moreau**  
Microbial responses to locally increased CO2 and CH4 in the deep terrestrial and marine subsurface

**Pathogenesis I**

10:30am - 12:00pm  
Meeting Room 3  
Chair: Malcolm McConville

10:30 AM **Wilhelmina Huston**  
Isolation of Chlamydia trachomatis mutants that are resistant to a HtrA inhibitor

11:00 AM **Scott Beatson**  
What more can genomics tell us about multi-drug resistant enterobacteriaceae?

11:20 AM **Roy Robins-Browne**  
Animal models of infection with enterovirulent strains of *Escherichia coli*

11:40 AM **Scott A Rice**  
Using Molecular Community Analysis Tools to Control Infections in Catheterised Patients

**Poster Session A/Lunch**

12:00pm - 1:30pm  
Exhibition Hall

**SIG Meeting: Public Health Microbiology**

12:10pm - 12:40pm  
Meeting Room 1

**BD Awards Symposium**

1:30pm - 3:00pm  
Bellevue Ballroom 2  
Chair: Cheryl Power

1:30 PM **Joshua P.M. Newson**  
Identifying the host substrates of the SseK glycosyltransferase effectors from *Salmonella*  
*abs# 83*

1:40 PM **Daniel R Knight**  
Microevolutionary analysis of *Clostridium difficile* PCR ribotype 014 lineage in Australian porcine and humans reveals signatures of long-range intra- and interspecies transmission  
*abs# 85*

1:50 PM **Felise G Adams**  
Is pentamidine resistance in *Acinetobacter baumannii* ATCC 17978 regulated by adeRS?  
*abs# 86*

2:00 PM **Leah W Roberts**  
Use of whole genome sequencing to track outbreaks of carbapenem-resistant *Enterobacter cloacae* in Queensland  
*abs# 87*
Caitlin R Abbott
The role of receptor Smad (R-Smad) proteins during vaccinia virus infection  abs# 88

Neeraj Singh
Inability of H. haemolyticus to invade epithelial cells in vitro

**Afternoon Tea**
3:00pm - 3:30pm  Exhibition Hall

**Infectious Diseases of Regional Australia**
3:30pm - 5:00pm  Bellevue Ballroom 2
Chair: Deborah Holt

3:30 PM  Katja Fischer
Scabies and associated secondary infections  abs# 89

4:00 PM  Ruth Thornton
Becoming unstuck – targeting bacterial persistence mechanisms in otitis media to improve treatments.  abs# 90

4:20 PM  John Kaldor
Trachoma control in Australia: the pathway to elimination by 2020  abs# 91

4:40 PM  Philip M Giffard
Diversity of Chlamydia trachomatis in the Northern Territory: implications from basic science to child protection  abs# 92

**Viral Discovery**
3:30pm - 5:00pm  Meeting Room 1
Chair: Allison Imrie

3:30 PM  Jody Hobson-Peters
The risk of emerging arboviruses: Discovery of a divergent group of bunyaviruses in Australian mosquitoes  abs# 93

4:00 PM  Mang Shi
Exploring the invertebrate virosphere using metatranscriptomics  abs# 94

4:20 PM  Cheryl A Johansen
A novel flavivirus in the yellow fever group, isolated from mosquitoes collected in northern Western Australia  abs# 95

4:40 PM  Roy A Hall
The discovery of novel mosquito-borne flaviviruses provides new perspectives on viral host range, ecology and evolution  abs# 96

**Ecology of the Gut and Healthy Living**
3:30pm - 5:00pm  Meeting Room 2
Chair: Carl Kirkwood

3:30 PM  Susan V Lynch
Disease Severity and in vitro Immune Activity is Related to Discrete Inter-Kingdom Gut Microbiomes in Ethnically Distinct Ulcerative Colitis Patients  abs# 97

4:00 PM  Claus T Christophersen
Manipulation of the gut microbiota using resistant starch is associated with protection against colitis-associated colorectal cancer in rats  abs# 98

4:20 PM  Paraic O Cuivil
The Australian Mining Boom 2.0: Bioprospecting the Human Gut Microbiome for Lead Bioactives to Drive the Development of Novel Therapeutics  abs# 99

4:40 PM  Danny Mok
Not available at time of printing  abs# 100
Pathogenesis II  
3:30pm - 5:00pm  
Meeting Room 3  
Chair: Elizabeth Harry

3:30 PM  
**Mark Schembri**  
Understanding virulence and fitness related features of the E. coli ST131 clone  
abs# 101

4:00 PM  
**Christopher McDevitt**  
The role of transition metal ions at the host-pathogen interface  
abs# 102

4:20 PM  
**Christopher J Day**  
Glycan:glycan interactions: A new paradigm in biomolecular interactions that can mediate binding of pathogenic bacteria to host cells  
abs# 103

4:40 PM  
**Malcolm McConville**  
Isolation of Chlamydia trachomatis mutants that are resistant to a HtrA inhibitor  
abs# 104

**Break**  
5:00pm - 5:15pm

Rubbo Oration Introduction  
5:15pm - 5:30pm  
Bellevue Ballroom 2

Rubbo Oration  
5:30pm - 6:30pm  
Bellevue Ballroom 2  
Chair: Roy Robins-Browne

**Anne Kelso**  
Balancing national research needs – is there a bug in the system?  
abs# 105

Rubbo Function  
6:30pm - 8:00pm  
Exhibition Hall
### Plenary 5
8:30am - 9:15am
Bellevue Ballroom 2
Chair: Christopher Peacock

**Susan Lynch**
Early-life exposures, the gut microbiome and allergic asthma development in childhood  
*abs# 106*

### Plenary 6
9:15am - 10:00am
Bellevue Ballroom 2
Chair: Mark Schembri

**Victor Nizet**
Unexpected Functions of Three Classical Group A Streptococcal Virulence Factors to Modulate Innate Immunity  
*abs# 107*

### Morning Tea
10:00am - 10:30am
Exhibition Hall

### Emerging Zoonotic Infections of Public Health Importance
10:30am - 12:00pm
Bellevue Ballroom 2
Chair: Sam Abraham

- **10:30 AM**  
  **Pat Blackall**
  From chickens to koalas – An overview of bacterial zoonotic infections in Australia  
  *abs# 108*

- **11:00 AM**  
  **Charlotte Oskam**
  Australian Ticks in the Lyme-light  
  *abs# 109*

- **11:30 AM**  
  **Christopher S Peacock**
  A retrospective study of Babesia macropus associated with morbidity and mortality in eastern grey kangaroos and agile wallabies  
  *abs# 110*

### Viruses and Public Health
10:30am - 12:00pm
Meeting Room 1
Chair: Heidi Drummer

- **10:30 AM**  
  **Paul Effler**
  A Large Prolonged Mumps Outbreak in Highly Vaccinated Aboriginal Western Australians  
  *abs# 111*

- **11:00 AM**  
  **Carl Kirkwood**
  Rotavirus vaccination: impact of introduction on circulating wildtype rotavirus strain population in Australian children  
  *abs# 112*

- **11:30 AM**  
  **Rowena Bull**
  Examining past and future Hepatitis C virus epidemic trends in the era of direct acting antivirals  
  *abs# 113*

### Resistance Mechanisms to Antimicrobial Agents
10:30am - 12:00pm
Meeting Room 2
Chair: David Hampson

- **10:30 AM**  
  **Dan Andersson**
  Predicting the risk of antibiotic resistance evolution—which parameters should be measured?  
  *abs# 114*
### Microbial Cell Processes

**10:30 am - 12:00 pm**  
Chair: Kate Seib

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<tr>
<th>Time</th>
<th>Speaker</th>
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</thead>
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<tr>
<td>10:30 AM</td>
<td>Elizabeth Harry</td>
<td>A novel role for a chromosome segregation protein in regulating cell division in bacteria</td>
<td>abs# 117</td>
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<tr>
<td>11:00 AM</td>
<td>Ian Grainge</td>
<td>Replication fork collapse and processing in living bacteria</td>
<td>abs# 118</td>
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<tr>
<td>11:30 AM</td>
<td>Matthew Belousoff</td>
<td>High resolution CryoTEM analysis of the MRSA 70S ribosome; understanding the molecular basis of multidrug resistance</td>
<td>abs# 119</td>
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### Poster Session B/Lunch

**12:00 pm - 1:30 pm**
Exhibition Hall

### SIG Meeting: EDUSIG

**12:10 pm - 12:40 pm**
Meeting Room 1

### Proffered papers 4 - Division 1: Zoonoses Division

**1:30 pm - 2:30 pm**  
Chair: Charlotte Oskam

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<tr>
<td>1:30 PM</td>
<td>Adam Polkinghorne</td>
<td>Endemic Australian <em>Chlamydia psittaci</em> strains from humans and parrots cluster within the highly virulent 68C clade of this important zoonotic pathogen</td>
<td>abs# 120</td>
</tr>
<tr>
<td>1:45 PM</td>
<td>Pedro A. Martinez-Perez</td>
<td>Isolation of <em>Cryptococcus neoformans</em> var. <em>grubii</em> (serotype A) and <em>C. magnus</em> from the nasal lining of free-ranging quokkas (<em>Setonix brachyurus</em>) on Rottnest Island (Western Australia)</td>
<td>abs# 121</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>Shubhagata Das</td>
<td>Circoviruses evolve more slowly than their hosts</td>
<td>abs# 122</td>
</tr>
<tr>
<td>2:15 PM</td>
<td>Raellene Dare-Smith</td>
<td>Can RCPAQAP Help your Laboratory Detect Lyme Disease?</td>
<td>abs# 123</td>
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### Proffered papers 5 - Division 2: Viral Pathogenesis

**1:30 pm - 2:30 pm**  
Chair: Jillian Carr

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<tr>
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<tr>
<td>1:30 PM</td>
<td>Wisam Al Shujairi</td>
<td>Intracranial injection of dengue virus induces interferon stimulated genes and CD8+ T cell infiltration in mice</td>
<td>abs# 124</td>
</tr>
<tr>
<td>1:45 PM</td>
<td>Thisun BH Piyasena</td>
<td>Molecular Mechanisms of Evolutionary Adaption in Insect-specific Flaviviruses</td>
<td>abs# 125</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>Alice Michie</td>
<td>A Novel Alphavirus isolated from <em>Culex annulirostris</em> mosquitoes in the Kimberley, Western Australia</td>
<td>abs# 126</td>
</tr>
<tr>
<td>2:15 PM</td>
<td>Jessica J Harrison</td>
<td>A new orbivirus isolated from mosquitoes in north-western Australia shows antigenic and genetic similarity to Corriparta virus but does not replicate in vertebrate cells</td>
<td>abs# 127</td>
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**Proffered papers 6 - Division 3: Environmental Microbiology**

1:30pm - 2:30pm  
Meeting Room 2  
Chair: Deepak Kumaresan  

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<tr>
<td>1:30 PM</td>
<td>Chong Seng Shit</td>
<td><em>Stenotrophomonas maltophilia</em>: a multiple drug resistant bacterium to a potential herbicide degrading bacterium</td>
<td>abs# 128</td>
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<td>1:45 PM</td>
<td>Vivek Pande</td>
<td><em>Salmonella enterica</em> spp isolated from egg farm environments are able to form biofilm on the eggshell</td>
<td>abs# 129</td>
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<tr>
<td>2:00 PM</td>
<td>Caitlin M Singleton</td>
<td>Methanotrophy across a climate critical thaw environment</td>
<td>abs# 130</td>
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<tr>
<td>2:15 PM</td>
<td>Heike Neumeister-Kemp</td>
<td>Limitations of PCR using ERMI for the Assessment of Water Damaged Buildings</td>
<td>abs# 131</td>
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**Proffered papers 7 - Division 4: Drug Resistant Bacteria and Drug Development**

1:30pm - 2:30pm  
Meeting Room 3  
Chair: Philip Giffard  

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<tr>
<td>1:30 PM</td>
<td>Kelly L Wyres</td>
<td>Exploring <em>Klebsiella</em> capsule diversity: multi-drug resistant vs hypervirulent clones</td>
<td>abs# 132</td>
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<tr>
<td>1:45 PM</td>
<td>Christopher J Harmer</td>
<td>Unravelling the role of IS26 in the formation of transposons carrying antibiotic resistance genes</td>
<td>abs# 133</td>
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<tr>
<td>2:00 PM</td>
<td>Louise Roddam</td>
<td>Development of recombinant human PON2 as a novel antimicrobial agent</td>
<td>abs# 134</td>
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<tr>
<td>2:15 PM</td>
<td>Mitali Sarkar-Tyson</td>
<td>Evaluation of novel inhibitors against <em>Burkholderia pseudomallei</em> Mip protein</td>
<td>abs# 135</td>
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**Afternoon Tea**

2:30pm - 3:00pm  
Exhibition Hall

**Infections of Animal Health Significance**

3:00pm - 4:30pm  
Bellevue Ballroom 2  
Chair: John Boyce  

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<tr>
<td>3:00 PM</td>
<td>Kumudika de Silva</td>
<td>Predictive strategies for the control of mycobacterial infection in ruminants</td>
<td>abs# 136</td>
</tr>
<tr>
<td>3:30 PM</td>
<td>David J Hampson</td>
<td>Investigation into the occurrence of newly recognised agents of swine dysentery in Australian pig herds</td>
<td>abs# 137</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Andrew R Bridle</td>
<td>Vaccinating Fish- Development of Oral Fish Vaccines</td>
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**Human Virology**

3:00pm - 4:30pm  
Meeting Room 1  
Chair: Rowena Bull  

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<tr>
<td>3:00 PM</td>
<td>Aeron Hurt</td>
<td>Influenza antivirals and resistance</td>
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<tr>
<td>3:30 PM</td>
<td>Heidi Drummer</td>
<td>Antigenic and immunogenic studies on the Hepatitis C Virus E2 glycoprotein: Insights into vaccine design</td>
<td>abs# 140</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Van-Mai Cao-Lormeau</td>
<td>Zika virus: the French Polynesian experience</td>
<td>abs# 141</td>
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**Microbial Symbiotic Relationships**

3:00pm - 4:30pm  
Meeting Room 2

Chair: Joshua Ramsay

3:00 PM  **Mathieu Pernice**  
Single cell measurements of metabolic activity: towards a functional understanding of symbiotic interactions in corals  
*abs# 142*

3:30 PM  **Jason Terpolilli**  
Horizontal gene transfer and nitrogen fixation in newly evolved *Mesorhizobium* microsymbionts  
*abs# 143*

4:00 PM  **Harry Eslick**  
The science of growing truffles in Western Australia  
*abs# 144*

**Bacterial Interactions with Host Defences**

3:00pm - 4:30pm  
Meeting Room 3

Chair: Charlene Kahler

3:00 PM  **Victor Nizet**  
Boosting Endogenous Antimicrobial Activities to Combat Multi-Drug Resistant Bacterial Pathogens  
*abs# 145*

3:30 PM  **Sassan Asgari**  
Role of small RNAs in Wolbachia-host interactions  
*abs# 146*

4:00 PM  **Jaclyn S Pearson**  
Staying alive: inhibition of cell death by enteropathogenic *E. coli*  
*abs# 147*

**Conference Close**

4:30pm - 5:00pm  
Bellevue Ballroom 2
POSTER LISTING

POSTER SESSION A - TUESDAY

Vishal Ahuja
Comparative Evaluation of MICRONAUT-AM EUCAST AFST2-Test Plate and Sensititre® YeastOne® Plate (CLSI) for Susceptibility Testing of Candida Species  abs# 201

M John Albert
Immunization with a double-mutant (R192G/L211A) of the heat-labile enterotoxin of Escherichia coli offers partial protection against Campylobacter jejuni in an adult mouse intestinal colonization model  abs# 202

Yahya Almutawif
Bacterial Analysis of Donated Human Milk  abs# 203

Chris Atkinson
Conjugal transfer of select acquired macrolide resistance genes from Pasteurella multocida to non-typeable Haemophilus influenzae  abs# 204

Sankhya Bommana
Improving our understanding of the diagnosis, prevalence and impact of Chlamydia pecorum infections on a prime lamb production in Australia  abs# 205

Ki Yung Brian Chung Tai Him
Detection of Propionibacterium acnes – a comparison study of different incubation times  abs# 206

Deirdre A Collins
Clostridium difficile infection in emergency department patients in Western Australia  abs# 207

Petra Czarniak
Surgical antibiotic prophylaxis use and infection prevalence in breast surgery  abs# 208

Arjuna N Ellepola
Caspofungin-induced in-vitro post-antifungal effect and its impact on hemolysin production and adhesion related traits of oral Candida dubliniensis isolates  abs# 209

Kaniz Fatema
This retrospective study was conducted at different private hospital, Dhaka during July to December, 2015 with a view to find out incidence of UTI patients with aiming to testing antimicrobial drug susceptibility  abs# 210

Cathy Lowe
Carbapenem producing Enterobacteriaceae Screening  abs# 211

Lucy L Furfaro
A novel real-time multiplex PCR assay to simultaneously detect Streptococcus agalactiae presence and discriminate between serotypes Ia, Ib and III  abs# 212

Philip M Giffard
Contrasting population structures, host ranges and phylogeography for two newly defined species in the Staphylococcus aureus complex: Staphylococcus argenteus and Staphylococcus schweltzeri  abs# 213

Carla Giles
Novel antifungal surface coating minimises Candida albicans adhesion and biofilm formation  abs# 214

Carla Giles
Rhodococcus equi vaccines and the challenges of testing vaccines in foals  abs# 215

Alexander W Gofton
Anaplasmataceae in Australia: The first description of tick-borne Anaplasmataceae endemic to Australia  abs# 216

Telleasha L. Greay
Illuminating the bacterial communities of ticks that parasitise horses  abs# 217

John Turnidge
AURA: Developing a national surveillance system for antimicrobial use and resistance in Australia  abs# 218
Elizabeth Hickey
Repurposing Polyether Ionophores for Veterinary Applications abs# 219

Deborah C. Holt
Staphylococcus aureus colonisation and infection in a prospective cohort of dialysis clients and staff in the Northern Territory abs# 220

Stacey Hong
Characterisation of a ribotype 251 strain of Clostridium difficile causing severe disease in the community abs# 221

Xiao Xuan Huang
Development of Fluorescence-Based Cell Assays Combined with in situ Hybridisation Enhanced Acoustic Flow Cytometry for Rapid Bacterial Detection in Patients with Bacteraemia abs# 222

Carly Hughes
Gram negative anaerobe susceptibility testing in clinical isolates using Sensititre and E-test methods abs# 223

Margaret Ip
Tracking changing lineages of methicillin-resistant staphylococcus aureus in hong kong hospitals abs# 224

Muhammad Kamruzzaman
Curing transmissible antibiotic resistance from Enterobacteriaceae abs# 225

Todd M Pryce
Resolving inconclusive HCV genotypes generated by the Siemens Versant HCV Genotype 2.0 method with the Abbott RealTime HCV Genotype II assay abs# 226

Dianne Gardam
Reproducibility of cryptococcal antigen titre by the IMMY test abs# 227

Zami Ahmad
Evaluation of the AusDiagnostics Herpes Assay for the detection of Herpes Simplex Virus and Varicella Zoster Virus in clinical samples using the AusDiagnostics High-Plex system abs# 228

Marian Nure
Identification of filamentous fungi using maldi-tof ms in a clinical mycology laboratory improves turn around times abs# 229

Valerie Hiew
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Trish Mitchell
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Rebecca Wake
Title: Evaluation of the Biofire FilmArray Respiratory Panel for the rapid detection of respiratory pathogens in a Quaternary Referral Hospital abs# 232

Liana Barrett
Evaluation of the BinaxNOW Streptococcus pneumoniae Urinary Antigen Test for diagnosis of community acquired pneumonias caused by Streptococcus pneumoniae abs# 233

Peter Boan
Susceptibility of Candida isolates from Royal Perth Hospital 1999 to 2014 abs# 234

Dianne Gardam
Incidence and antifungal susceptibility patterns among blood stream isolates of Candida species from a tertiary hospital in Western Australia abs# 235

Liwen Lim
Evaluation of the BK Virus R-gene Assay for the quantitation of BK virus in plasma and urine abs# 236

Courtney Jeffery
Bio-Rad Platelia™ Aspergillus Antigen Galactomannan Assay at PathWest, Fiona Stanley Hospital abs# 237

Binit Lamichhane
Personalised treatment: the best strategy to combat antibiotic resistant Helicobacter pylori abs# 238

Rachael Lappan
Identifying protective microbial factors in recurrent acute otitis media abs# 239

Gar-hing Lee
Disseminated Aspergillosis in a young immunocompetent host abs# 240
Siew May Loh
Identification and molecular characterisation of a novel Borrelia sp. in echidna ticks  abs# 241

Alexander M Abraham
Changes in sphingosine 1-phosphate during dengue virus infection  abs# 242

Alan M. McGovern
Prevalence of toxin A negative, toxin B negative, binary toxin positive Clostridium difficile in symptomatic humans  abs# 243

Nur Ashilah Md Pajri
OUT OF THE BLUE: Fungal microscopy in colour  abs# 244

Peter Moono
Outbreak of Clostridium difficile infection in suckling piglets in Eastern Australia  abs# 245

Poonam Mudgil
Aggregatibacter actinomycetemcomitans osteomyelitis in a Paediatric Patient: Case Report and Literature Review  abs# 246

Poonam Mudgil
Knowledge, attitudes and opinions on measles and the MMR vaccines across two NSW cohorts  abs# 247

Poonam Mudgil
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Peter Njuguna
Multiplex qPCR assay for the detection and differentiation of Herpes simplex virus 1 and 2, and Varicella zoster virus  abs# 250

Pongthorn Pumtang-on
Antimicrobial susceptibility of Campylobacter species in Australian commercial chicken flocks  abs# 251

Papanin Putsathit
Antimicrobial susceptibility of Clostridium difficile isolated in Thailand  abs# 252

Sharon Reid
Toxin A-negative toxin B-positive ribotype 017 Clostridium difficile is the dominant strain type in patients attending tuberculosis hospitals in Cape Town, South Africa  abs# 253

Niloufar N.R Roshan Hesari
Antimicrobial activity of natural products against Clostridium difficile infection  abs# 254

Hanna E. Sidjabat
Diversity of Haemophilus influenzae and Haemophilus parainfluenzae amongst Australian indigenous children characterised using MALDI-TOF  abs# 255

Chisha T Sikazwe
A Real-Time Taqman RT-PCR Method for the Quantification of Rhinovirus C (RV-C) in Respiratory Samples  abs# 256

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David Whiley
Direct and specific detection of Neisseria gonorrhoeae ciprofloxacin susceptibility—towards individualised treatment  abs# 258

Stephanie Trend
Purification and safety assessment of bacteriophage preparations against Pseudomonas aeruginosa infection in children with cystic fibrosis  abs# 259

John Turnidge
Antimicrobial Use and Resistance in Australia (AURA): New Report Findings  abs# 260

Anne E Watt
Assessment of airborne Actinobacillus pleuropneumoniae within a commercial farming environment  abs# 261

Judith Wilson
Rapid Chlamydia trachomatis genotyping assay designed using genome wide orthologous SNP information  abs# 262

Bruce Wong
Strongyloides Serology – An evaluation of the NovaTec NovaLisa™Strongyloides ELISA  abs# 263
Bruce Wong
*Schistosoma* Serology – An evaluation of the NovaTec NovaLisa™*Schistosoma* mansoni ELISA  
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Bruce Wong
*Helicobacter pylori* Serology – An evaluation of the DiaSorin *Helicobacter pylori* IgG assay on the DiaSorin Liaison XL  
abs# 265

May Yee Yap
Assessment of *Ureaplasma parvum* serovar 3 penetration and inflammatory response in human fetal membranes using an ex-vivo dual-compartment perfusion model  
abs# 266

Sharhana Yusof
Prevalence of human parechovirus in cerebrospinal fluid samples from paediatric patients in Singapore in 2014  
abs# 267

Peivern Fong
Species Level Identification and Clinical Features of *Actinomyces* spp. using Bruker Daltonics Microflex LT system (MALDI TOF) in a Clinical Microbiology Laboratory  
abs# 268
POSTER SESSION B - WEDNESDAY

Patiyan Andersson
Novel SSCmecIV element confers high level tolerance to tobramycin and kanamycin in Staphylococcus aureus ST93 MRSA

Grace A Androga
A cryptic vanB2 operon carried on a Tn1549-like element in Clostridium difficile

Amir Ariff
The diversity of virulence genes is related to unexpected purifying evolutionary pressures differentially affecting clades of Moraxella catarrhalis

Joanne Barfield
A brief note on the molecular characteristics of Alloiococcus otitidis: an organism isolated from Indigenous and non-Indigenous children in the Hunter region

Withdrawn

Grace A Blackwell
Potential origin of the Australian extensively antibiotic resistant global clone 2 Acinetobacter baumannii isolates

John D Boyce
Identification of Acinetobacter baumannii type VI secretion system toxins

Rachel Brewer
Investigating differences in nitrogen fixation efficiency in Mesorhizobium microsymbionts of the pasture legume Biserrula pelecinus

Nicole Bzdyl
Investigating the role of Cyclophilins in the virulence of Burkholderia pseudomallei

Ju Yee (Joey) Chong
Co-infection of multiple Helicobacter species in a Western Australian cohort

Patrick Chua
Cloning, expression and characterization of GH10 and GH11 xylanases from Paenibacillus sp MAEPY2 from landfill leachate

Ying-Chien Chung
Tyrosinase inhibitory and antioxidant activities of three Lactobacillus acidophilus-fermented herb extracts

Ying-Chien Chung
Bioelectricity production generated from pure algal microbial fuel cell (AMFC)

Ying-Chien Chung
The new skin-care bio-membrane for antioxidant, anti-aging, and whitening functions from green algae by using plant factory

Katie da Silva-Antunes
Phosphatidylcholine and cholesteryl esters as antibacterial compounds in tears

Diane Daniel
Genetic diversity of Enterococcus faecalis isolated from environmental, animal and clinical sources in Malaysia

Navdeep Dhami
Microbial-Mineralogical properties of biomineralized cave speleothems indicate their influence on Mechanical properties

Aaron Esmaili
A Retrospective Clinical Audit on the Management of Abscesses in a Western Australian Peripheral Hospital

Tai Gardner
Exploring loss in E. coli culturability after combined cold and osmotic shock

Deirdre B Gleeson
Bacterial and archaeal diversity and composition in mangrove sediments along the WA coast

Tegan M Harris
A trimethoprim-sulphamethoxazole-resistant, methicillin-resistant Staphylococcus aureus clone isolated from skin sores of children in remote communities of the Northern Territory, Australia

Timothy L Haskett
Evolution of N2-fixing symbioses through acquisition of tripartite mobile genetic elements
Eun Jeong Heo
Monitoring of microbial indicators and food-borne pathogens in various food and functional health food categories for evaluation of microbial criteria  

Son Hoang Minh
Isolation, characterization, and application of a lytic phage active against Shiga toxin-producing Escherichia coli O157:H7 contaminated to raw beef  

Greg Iosifidis
Identifying Urine Constituents that Trigger Filamentation of Uropathogenic E. coli  

Deepak Samuel Ipe
Burkholderia pseudomallei capsule exacerbates respiratory melioidosis but does not afford protection against antimicrobial signalling or bacterial killing in human olfactory ensheathing cells  

Cameron Jones
Review Of The Settling Plate Method For Indoor Air Quality And Mould Inspections  

Cameron L Jones
Indoor Fungal Biogeography Mapping Using Word Clouds In Residential Real Estate And Their Potential Use For Identifying Insurance Fraud  

Cameron Jones
Potential for Misuse of Fungal Exposure Thresholds Used for Risk Assessment in Building Biology  

Jeeun Kim
Microbiological quality of dietary supplements in South Korea  

Jodi Woan-Fei Law
The potential of Streptomyces as biocontrol agent against rice blast fungus, Magnaporthe oryzae (Pyricularia oryzae)  

Su Chen Lin
High prevalence of Clostridium difficile found on Australian retail vegetables  

Su Chen Lim
Prevalence and distribution of Clostridium difficile PCR ribotypes in gardening products  

Tulia Mateus
Antibody Titres to Bacterial Protein Vaccine Candidate Antigens in Children with Obstructive Sleep Apnoea and Recurrent Tonsillitis  

P Meade
Screening for Carbapenemase-producing Enterobacteriaceae (CPE), A Local Approach to a Global Concern  

Margaret Savanyo
Streptococcus pseudopneumoniae - An Identification Algorithm for an Emerging Pathogen  

Christopher Mullally
Horizontal gene transfer events in asymptomatic carriage and pathogenic isolates of Neisseria meningitidis  

Riley Murphy
Evaluating the Role of CRISPR-Cas in the Inhibition of Antimicrobial-Resistance Plasmid Transfer in Staphylococcus aureus  

Wen Qi Ong
Identifying the genetics steps in the development of antibiotic resistance in Helicobacter pylori  

Andrea Paparini
Novel primer sets for next generation sequencing-based analysis of water quality  

Miranda E Pitt
Novel Chromosomal Variants Facilitating Polymyxin Resistance in Extensively Drug-Resistant Klebsiella pneumoniae from Clinical and Induced Isolates  

Carol H. Pong
Characterising the putative helix-helix-turn-helix (H-HTH) DNA-binding domain of the IS26-encoded transposase, Tnp26  

Talitha H Rogers
The role of the TCA cycle in symbiotic N₂-fixation in Phaseolus vulgaris (common bean) bacteroids
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<td>Anna Roujeinikova</td>
<td>New targets for the old drugs: exploring the antimicrobial potential of sulfonamide carbonic anhydrase inhibitors</td>
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<td>Amreeta Sarjit</td>
<td>Transfer of Campylobacter and Salmonella from poultry onto poultry processing and preparation surfaces</td>
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<td>Hemen Sarma</td>
<td>Quaternary mixture of PAHs degradation potential of bacterial consortia—significance for bioremediation of crude oil contaminated soil</td>
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<td>Hooi-Leng Ser</td>
<td>A novel actinobacterium, Streptomyces malaysiense sp. nov., isolated from Malaysian mangrove soil with cytotoxic potential against human cancer cell lines</td>
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<td>Tamryn Stoborough</td>
<td>Comparative genomics of the meat spoilage organism, Brochothrix thermosphacta</td>
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<td>Monica Stelmach</td>
<td>Investigation for liaF deletion in vancomycin-resistant Enterococcus faecium isolates from Australian hospital patients</td>
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<td>Mishal Subhan</td>
<td>Lovastatin production by Aspergillus terreus using a novel substrate as a carbon source in solid state fermentation</td>
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<td>Berenice Talamantes Becerra</td>
<td>Dartseq as a method for characterization and identification of bacterial isolates</td>
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<td>Tan Loh Teng Hern</td>
<td>MUM256: A Malaysia mangrove soil Streptomyces species with apoptosis-inducing properties in cancer cells</td>
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<td>Anti-biofilm activity of red pitahaya (Hylocereus polyrhizus) and red spinach (Amaranthus dubius) extracts: a comparative study</td>
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<td>Karina Yui Elo</td>
<td>Deciphering the molecular recognition of origin-of-transfer sequences by the pWBG749 family of Staphylococcus aureus conjugative plasmids</td>
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<td>Peter Kaempfer</td>
<td>Biogas plants: Source of sink for antibiotic resistant bacteria?</td>
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<td>Diverse bacterial species in the microbiome of upper respiratory tract of patients with chronic rhinosinusitis and healthy participant’s</td>
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<td>Eremophila: Native plants as novel sources of antibacterial compounds</td>
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