BENEFITS OF ASM MEMBERSHIP

NETWORK with local and international experts at local meetings

ACCESS to many different awards & prizes

DISCOUNTED rates to attend meetings all around Australia

VISITING SPEAKER PROGRAM brings eminent & world recognised microbiologist & research scientists to tour Australia

RECOGNITION by Industrial Awards (MASM/FASM)

ASM VOTING RIGHTS

FREE MICROBIOLOGY AUSTRALIA JOURNAL distributed quarterly

PROGRAM of continuing education via the APACE program, the Mentoring program and at branch level

STUDENT
If you’re pursuing a course of study and are not full time employed, this level is for you!

PROFESSIONAL (MASM)
Scientists whose experience and formal qualifications are judged by the ASM’s National Qualifications Committee to be consistent with a professional level of commitment to their career in microbiology

DEVELOP YOUR FUTURE WITH ASM

ASSOCIATE
Have an interest in Microbiology? Then you could be an Associate member.

FELLOWSHIP (FASM)
Fellows of the Society are those microbiologists who, through a process of peer assessment, are determined to be either specialists in their field, or scientists who have made a significant contribution to the profession.

JOIN OUR 1800+ MEMBERS NOW!

www.theasm.org.au

9/397 SMITH ST FITZROY VIC 3065
1300 656 423
ADMIN@THEASM.COM.AU
Dear Members and Fellow Microbiologists,

Welcome to the ASM 2023 Annual Scientific Meeting, the premier event on our calendar. The discipline of microbiology continues to display its importance in all aspects of our lives, and our meeting will showcase scientific advances and breakthroughs made by you our members over the last year.

The Local Organising and Scientific Program Committees have put together a fantastic and diverse scientific and social program for all of us to enjoy. I would like to congratulate and thank them for their hard work, and I look forward to seeing the outcome of their efforts play out over the next few days.

Our meeting provides many opportunities for you to engage with our community, including plenary talks, symposium sessions, award lectures, Nancy Millis student award talks, the Nancy Millis mentoring program, networking sessions and interactive poster sessions. The program brings together international experts and leaders complemented by the best of our local microbiology community to explore all things microbiology, which we hope will inspire you. We will see many presentations from our students and early career researchers, and we strive to showcase this talented up-and-coming next generation at our national meetings. This year our program will also feature new awards in industry engagement and education, highlighting our commitment to support all sectors of our discipline.

I am delighted to say that our meeting will also support the important work of our microbiology educators through EduCon, as well as our diagnostic laboratory scientists, technicians, microbiology registrars and clinical microbiologists through CliniCon. These focussed meetings provide a fantastic complement to our scientific program, and I hope they will create new networking opportunities. I also encourage all attendees at this conference to join presentations offered in these adjunct meetings if there are topics that grab your interest.

For those who are not yet ASM members, I encourage you to join. Becoming a member is easy, and provides many benefits, such as the ability to attend other ASM specialised conferences at significantly reduced rates and state-based meetings at no cost, as well opportunities to receive prizes and awards that recognise your contribution to microbiology. More information about the ASM, including details on how to become a member, can be found at our website: www.theasm.org.au, where you can also apply for membership online.

Thank you also to all our wonderful industry supporters. We are grateful for your continued support this year and over many years. I urge all delegates to engage with the trade exhibition.

Finally, thank you to everyone attending this meeting for your support of ASM 2023. I welcome you and hope you enjoy this meeting, learn new things about the science of microbiology, make new friends, network and connect with colleagues. Its time to enjoy the meeting!

Mark Schembri, FASM
ASM President
The Local Organising Committee and the ASM Executive has the pleasure to welcome you to Perth for the Australian Society for Microbiology (ASM) Annual: National Scientific Meeting and trade exhibition (ASM2023), being held at the PCEC (Perth Convention and Exhibition Centre) in Western Australia.

The PCEC overlooks beautiful Swan river at Elizabeth Quay in downtown Perth. Elizabeth Quay is a new vibrant precinct containing cafés, bars, and restaurants with river views. The PCEC is within walking distance of the heart of Perth, which includes the Art Gallery of Western Australia and the Perth Mint which is Australia’s only Mint producing gold bullion. Next to the PCEC is the iconic Bell Tower, the only place in Australia with manual bell ringing using 14th century bells, and the Swan River Pier from which you can catch a ferry to Rottnest island, home of the cute quokka. Just outside the CBD you can walk to King’s Park and Botanic gardens, an exceptional experience as the gardens overlook the city from Mount Eliza. Visiting Cottesloe beach is also a simple bus ride to the coast to watch the sunset over the Indian ocean. For those of you who are considering staying on after the conference, you have the opportunity to visit the marvellous wine regions of the Swan Valley and Margret River, also known for its world-class surfing conditions that host the World Surf League championship. Or spare a thought for going north to the Ningaloo Reef, home of the whale sharks.

We have assembled an inspiring and exciting scientific program for 2023. We have visiting speakers and guests from around Australia and the rest of the world who will present ideas and research across a range of microbiology sub-disciplines. We also have a wonderful social program to encourage discussion and interaction - the Welcome night, Trade and Poster night, and the Rubbo celebration that includes live music from Hi-NRG.

Our plenary speakers this year cover a broad range of microbiology. We will be joined by A/Prof Yunn-Hwen Gan (National University of Singapore, Singapore), Prof Ross Fitzgerald (University of Edinburgh, UK), Prof Neil Gow (University of Exeter, UK), Dr Jennifer Pett-Ridge (Lawrence Livermore National Laboratory, USA), Prof Dominic Dywer (Institute for Clinical Pathology and Medical Research, AUS) and Prof Shiranee Sriskandan (Imperial College, UK).

We are delighted to announce our awardees for 2023. Prof Julian Rood is giving the prestigious Rubbo Oration and Prof Dena Lyras has been selected for the Distinguished Award Oration. Dr Andrea McWhorter has received the new Industry Engagement Award, while Dr Shakeel Mowlaboccus and Dr Lawrence Luu has received the Jim Pittard Award and Dr Johanna Kenyon and Dr Josh Ramsay has received the Frank Fenner Award.

The Organising Committee and Executive would especially like to thank all of our sponsors. We have received exceptional support from our sister-society SGM in the UK for poster prizes, and a fabulous Early Career Oral award funded by Elsevier. All our local and national sponsors are providing essential and generous support. Indeed, collectively they are showcasing an exciting breadth of trade and technologies and we encourage you all to visit their exhibits and attend their workshops. I encourage all delegates to interact with our sponsors throughout the conference, especially during our evening poster, trade and social functions. I would also like to thank ASN Events (especially Kara Barker and the ASN team) for their work in organising this conference.

I hope that the ASM 2023 meeting is a rewarding and memorable event for you in Perth, Western Australia.
Standing Committees

NATIONAL SCIENTIFIC ADVISORY COMMITTEE (NSAC)
Chair: Kate Seib
Members: Melissa Brown, Jai Tree, Peter Revill, Adam Taylor, Kate Howell, Linda Blackall, Chris Greening, Roy Robins-Browne, Lea-Ann Kirkham, Hayley Newton, Gary Lum, Robyn Marsh, Ulrike Kappler, Evgeny Semchenko, Aimee Tan

STANDING COMMITTEE ON PROFESSIONAL DEVELOPMENT
Chair: Priscilla Johanesen
Members: Tony Jennings, Enzo Palombo, Belinda McEwan Erin Brazel, Thiru Vanniasinkam

PUBLICATIONS STANDING COMMITTEE
Chair: Ipek Kurtboke
Editor: Ian Macreadie
Members: Ross Barnard, Linda Blackall, Rebecca Le Bard, Gary Lum, Sam Manna, Wieland Meyer, Chris Owens, Cheryl Power, William Rawlinson, Binod Rayamajhee, Tom Ross, Mark Schembri, Paul Selleck, David Smith, Thiru Vanniasinkam, Annaleise Wilson

NATIONAL EXAMINATIONS & QUALIFICATIONS BOARD (NEQB)
Chair: Julian Rood
Registrar: Sally Partridge
Assistant Registrar:
Louise Hafner & Ian Kay
Members: Gary Lum, Paul Selleck, Jill Carr, Melissa Brown, David Smith, Tom Riley, Willa Huston, Jack Wang, Amy Jennieson

WORKFORCE STANDING COMMITTEE
Chair: Tony Jennings
Members: N/A

EQUALITY, DIVERSITY AND INCLUSION COMMITTEE
Chair: Yogitha Srikhanta
Members: TBC
## State Branch Chairs

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<tr>
<th>State Branch</th>
<th>State Branch</th>
<th>Chair</th>
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<tr>
<td>New South Wales/Australian Capital Territory</td>
<td>Queensland</td>
<td>John Attack</td>
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<td>Maurizio Labbate</td>
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<td>Victoria</td>
<td>Tasmania</td>
<td>David Nichols</td>
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<td>Steve Petrovski</td>
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<tr>
<td>South Australia/Northern Territory</td>
<td>Western Australia</td>
<td>Mitali Sarkar-Tyson</td>
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<td>Andrea McWhorter</td>
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## Special Interest Groups

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<th>Group</th>
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<tr>
<td><strong>ANTIMICROBIALS</strong></td>
<td>Convenor: Makrina Totsika</td>
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<td><strong>BACTERIOPHAGE</strong></td>
<td>Convenor: Jeremy Barr</td>
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<tr>
<td><strong>BIOINFORMATICS</strong></td>
<td>Convenor: Brian Forde</td>
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<tr>
<td><strong>CALIBRATED DICHOTOMOUS SUSCEPTIBILITY TESTING</strong></td>
<td>Convenor: Dianne Rafferty</td>
</tr>
<tr>
<td><strong>CLINICAL PARASITOLOGY &amp; TROPICAL MEDICINE</strong></td>
<td>Convenor: Francesca Azzato</td>
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<tr>
<td><strong>CLINICAL SEROLOGY &amp; MOLECULAR</strong></td>
<td>To be confirmed</td>
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<tr>
<td><strong>COSMETICS &amp; PHARMACEUTICAL</strong></td>
<td>Convenor: Melissa Bourke</td>
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<td><strong>CULTURE MEDIA</strong></td>
<td>Convenor: Peter Traynor</td>
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<td><strong>EDUCATION</strong></td>
<td>Convenor: Thiru Vanniasinkam</td>
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<tr>
<td><strong>EUKARYOTIC MICROBES</strong></td>
<td>Convenor: Megan Lenardon</td>
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<tr>
<td><strong>FOOD MICROBIOLOGY</strong></td>
<td>Convenor: Andrea McWhorter</td>
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<tr>
<td><strong>GUT MICROBES</strong></td>
<td>Convenor: Dena Lyras, Jaclyn Pearson, Megan Lenardon &amp; Sam Forster</td>
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<tr>
<td><strong>HISTORY</strong></td>
<td>Convenor: Di Lightfoot</td>
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<tr>
<td><strong>MEDICAL MYCOLOGY</strong></td>
<td>Convenor: Dianne Gardam</td>
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<td><strong>MICROBIAL ECOLOGY</strong></td>
<td>Convenor: John Bowman</td>
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<td><strong>MOLECULAR ECOLOGY</strong></td>
<td>Convenor: Jessica Webb</td>
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<td><strong>MYCOBACTERIA</strong></td>
<td>Convenor: Maria Globan</td>
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<td><strong>MYCOPLASMATALES</strong></td>
<td>Convenor: Emma Sweeney</td>
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<td><strong>PUBLIC HEALTH MICROBIOLOGY</strong></td>
<td>Convenor: Carola Venturini</td>
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<td><strong>VETERINARY MICROBIOLOGY</strong></td>
<td>Convenor: Vathsala Mohan</td>
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<tr>
<td><strong>VIROLOGY</strong></td>
<td>Convenor: Joanne Macdonald</td>
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<tr>
<td><strong>QLD CLINICAL MICROBIOLOGY</strong></td>
<td>Convenor: Michelle Luck</td>
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</table>
FRANK FENNER AWARD
The purpose of this award is to recognise distinguished contributions in any area of Australian research in microbiology by scientists in a formative stage of their career, rather than to reward senior scientists for a lifetime of achievement.

LYN GILBERT AWARD
The purpose of this award is to recognise major contributions in any area of diagnostic laboratory microbiology in Australia or internationally by ASM members/fellows.

DAVID WHITE EXCELLENCE IN TEACHING AWARD
Applications are invited for the David White Excellence in Teaching Award to recognise excellence in the teaching of, and/or innovation in the teaching of microbiology in Australia.

JIM PITTARD EARLY CAREER AWARD
The purpose of this award is to recognise distinguished contributions in any area of Australian research in microbiology by scientists in early stages of their career.

DISTINGUISHED SERVICE AWARD
The Distinguished Service Award recognises outstanding service of, or contributions by, individuals to the Society.

HONORARY LIFE MEMBERSHIP AWARD
Honorary Life status is the highest membership recognition given by the Society and carries with it all the rights and privileges of a Member or Fellow together with exemption from payment of the annual membership subscription.

INDUSTRY ENGAGEMENT AWARD
The purpose of this award is to recognise outstanding contributions by early to mid-career microbiologists actively working with or in industry in the field of microbiology.

TEACHERS’ TRAVEL AWARD
The aim of this award is to encourage ASM members involved in teaching microbiology at the tertiary level to attend the annual scientific meeting of the Australian Society for Microbiology.

MILLIS-COLWELL POSTGRADUATE RESEARCH TRAVEL AWARD
Applications are invited from the Australian Society for Microbiology (ASM Aus) members for the Millis-Colwell Award. This award enables the reciprocal exchange of one member between the Australian Society for Microbiology and the American Society for Microbiology (American ASM) to visit a research laboratory in each country and to attend a National Conference of the other society.

NZMS POSTGRADUATE RESEARCH TRAVEL AWARD
Applications are invited from Australian Society for Microbiology student members for the ASM – New Zealand Microbiology Society (NZMS) Postgraduate Research Travel Award. This award allows for the reciprocal exchange of one student member each year to visit the National conference of the other society and to visit the research lab of a collaborating researcher in that country.

NANCY MILLIS STUDENT TRAVEL AWARDS
This award provides the opportunity for one student member from each ASM State Branch to attend and give an oral presentation at the ASM Annual Scientific Meeting.

CLINICAL MICROBIOLOGY TRAVEL AWARD
The aim of this award is to encourage ASM members involved in working in the field of clinical microbiology to attend the annual scientific meeting of the Australian Society for Microbiology.

ASM USA TEACHERS’ TRAVEL AWARD
The aim of this award is to enable attendance at the American Society of Microbiology Conference for undergraduate educators, known as ASMCUE.
THANKS TO OUR SPONSORS

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Rubbo Trust

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EXHIBITORS
A/Prof Yunn-Hwen Gan  
National University of Singapore, Singapore  
Plenary Speaker

Prof Ross Fitzgerald  
University of Edinburgh, UK  
Plenary Speaker

Prof Shiranee Sriskandan  
Imperial College, UK  
Plenary Speaker

Prof Neil Gow  
University of Exeter, UK  
Plenary Speaker

Dr Jennifer Pett-Ridge  
Lawrence Livermore National Laboratory, USA  
Plenary Speaker

Prof Dominic Dwyer  
Institute for Clinical Pathology and Medical Research, AUS  
Plenary Speaker

Prof Julian Rood  
Monash University, AUS  
Rubbo Orator

Prof Dena Lyras  
Monash University, AUS  
Distinguished Award Orator
| **REGISTRATION DESK HOURS** | The registration desk will be located in the **Foyer** and will be attended as per the hours below. Delegates should collect their name tag on arrival.  
**MONDAY:** 2:00PM – 6:30PM  
**TUESDAY:** 7:00AM - 7:15PM  
**WEDNESDAY:** 8:30AM - 6:45PM  
**THURSDAY:** 8:00AM - 1:30PM |
|-----------------------------|-------------------------------------------------------------------------------------------------|
| **REFRESHMENTS AND LUNCH** | Morning, afternoon teas and lunches will be served in the Exhibition Hall (River View Rooms 4 & 5 Combined) & Northern Foyer.  
If you have advised the Conference Secretariat of any special dietary requirements, please see the venue catering staff to receive your meal. |
| **SPEAKER PREPARATION ROOM** | The Speaker Preparation Room is located in **MEETING ROOM 12**.  
There will be a technician in attendance to assist you in loading up your presentation. It is essential that you load your talk at least 2 hours prior to your session. |
| **SOCIAL MEDIA GUIDELINES** | During ASM’s annual scientific meeting and conferences, many of our speakers will be presenting exciting novel research that is not yet published. While the society has an active social media presence, we respect the speakers’ right to request that their work not be shared across social media. The sharing of data without the speakers’ consent on publicly accessible platforms may prevent its subsequent publication in scientific journals and compromise their scientific progress.  
**Join the conversation by using @AUSSOCMIC and #2023ASM** |
| **CONFERENCE MOBILE PROGRAM** | Scan the QR code to access the mobile based program. See all the presentations and abstracts, favourite sessions and make quick notes.  
The below link will also give you access:  

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The Perth Convention Exhibition Centre acknowledges the Whadjuk Nyoongar people as the Traditional Owners of the lands and waters where PCEC is situated today, and pay our respect to Elders past and present.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>3:00 - 4:00</td>
<td>Nobel Laureate and Industry Presentation Lectures</td>
<td>Chair: Charlene Kahler</td>
<td>Meeting Rooms 1, 2 &amp; 3</td>
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<tr>
<td>3:00 - 3:45</td>
<td>Barry Marshall</td>
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<tr>
<td>3:45 - 4:00</td>
<td>Andrea McWhorter</td>
<td>My journey with industry engagement: Why did the microbiologist cross the road?</td>
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<tr>
<td>4:00 - 4:30</td>
<td>BREAK</td>
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<tr>
<td>4:30 - 5:00</td>
<td>WELCOME &amp; AWARDS CEREMONY</td>
<td>Lead by ASM President, Mark Schembri</td>
<td>MEETING ROOMS 1, 2 &amp; 3</td>
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<tr>
<td>5:00 - 5:45</td>
<td>Distinguished Award Oration</td>
<td>Chair: Mark Schembri</td>
<td>MEETING ROOMS 1, 2 &amp; 3</td>
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<td></td>
<td>Dena Lyras</td>
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<tr>
<td>5:45 - 8:30</td>
<td>Plenary Speaker</td>
<td>Chair: Mitali Sarkar-Tyson</td>
<td>MEETING ROOMS 1, 2 &amp; 3</td>
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<td></td>
<td>Yunn-Hwen Gan</td>
<td>The adaptations and pathogenesis of hypervirulent Klebsiella pneumoniae</td>
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<tr>
<td>6:30 - 8:30</td>
<td>WELCOME FUNCTION &amp; POSTER SESSION I</td>
<td></td>
<td>EXHIBITION HALL</td>
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<td></td>
<td>It all starts here. Catch up with old friends and meet some new ones over drinks and canapes as we see what our trade partners have to offer.</td>
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<td>Time</td>
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<tr>
<td>7:30-8:45</td>
<td><strong>NANCY MILLIS STUDENT BREAKFAST</strong></td>
<td>Well worth getting out of bed a little earlier for. Sit on a table with a plenary speaker and your fellow students and ask about what possibilities are out there in the world of research and work. One of the most useful and worthwhile breakfasts you will ever have.</td>
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<tr>
<td>9:00-10:30</td>
<td><strong>Human Microbiomes</strong>&lt;br&gt;Chairs: Samuel Forster &amp; Laurence Lu</td>
<td></td>
<td>MEETING ROOM 1</td>
</tr>
<tr>
<td>9:00</td>
<td><strong>Lisa F Stinson</strong>&lt;br&gt;Evolution of the breastfed infant gut microbiome across the first year of life in the BLOSOM cohort</td>
<td>Robert Gibb&lt;br&gt;Q Fever – Overview and Epidemiology</td>
<td>MEETING ROOM 2</td>
</tr>
<tr>
<td>9:15</td>
<td><strong>Hamdi Jama</strong>&lt;br&gt;Prebiotic intervention with HAMSAB in untreated essential hypertensive patients: a phase II randomized trial</td>
<td>Samuel BLundin&lt;br&gt;Development of Halitope, a precision-serology assay for gastric cancer risk based on selected linear epitopes of the CagA protein of Helicobacter pylori</td>
<td>MEETING ROOM 3</td>
</tr>
<tr>
<td>9:30</td>
<td><strong>Katja Fischer</strong>&lt;br&gt;Exploring the scabies-associated microbiota to understand the pathobiology of scabies-related secondary skin infections</td>
<td>Nikki Moreland&lt;br&gt;Serological profiling of Strep A disease: From improving diagnostics to correlates of protection</td>
<td>MEETING ROOM 6</td>
</tr>
<tr>
<td>9:45</td>
<td><strong>Luke Whitey</strong>&lt;br&gt;Phenotyping the host-gut microbe co-metabolome to investigate the gut-brain axis in health and disease</td>
<td>Martina Jelonic&lt;br&gt;Fluorescence-based rapid tests for the detection of chlamydial infections</td>
<td>TUESDAY 4 JULY</td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Remy Young</strong>&lt;br&gt;Bacterial interactions in the gastrointestinal tract prevent microbiome community disruption by dietary compounds</td>
<td>Rory C Gough&lt;br&gt;Utilising virtual microscopy for parasitology EQA: Standardising the gold standard</td>
<td>TUESDAY 4 JULY</td>
</tr>
<tr>
<td>10:10</td>
<td><strong>Karla Vinasco Pacheco</strong>&lt;br&gt;Lactobacillus - a new key player in gastric carcinogenesis?</td>
<td>Mariam Doualoh&lt;br&gt;Evaluating viability qPCR for improved detection of polymicrobial bacteraemia</td>
<td>TUESDAY 4 JULY</td>
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<tr>
<td>10:20</td>
<td><strong>Pooja Narang</strong>&lt;br&gt;Human Upper Respiratory Tract Microbiome and Epithelium Interactions</td>
<td>Malgorzata Kopczyk&lt;br&gt;Rapid confirmation of Candidemia using acoustic-enhanced flow cytometry</td>
<td>TUESDAY 4 JULY</td>
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<tr>
<td>Time</td>
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<tr>
<td>10:30-11:00</td>
<td>MORNING TEA</td>
<td>EXHIBITION HALL</td>
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</table>
| 11:00 - 11:45 | Plenary Session  
Chair: Martina Sanderson-Smith | MEETING ROOMS 1, 2 & 3   |
| 11:00      | Dominic E Dwyer  
The origins of SARS-CoV-2: Where science and politics meet           |
| 11:45 - 12:30 | Plenary Session  
Chair: Joshua Ramsay | MEETING ROOMS 1, 2 & 3   |
| 11:45      | Ross Fitzgerald  
Dissecting the evolutionary history and host-adaptive mechanisms of Staphylococcus aureus |
| 11:45 - 12:30 | Nancy Millis Student & Early Career Researcher (ECR) Lunch  
Come and have a discussion with us about career options!  
*Lunch will be available outside the room | MEETING ROOM 7 |
| 12:00 - 12:30 | Lunch | EXHIBITION HALL                                                      |
| 12:45-1:45 | CliniCon Workshop - bioMerieux  
MEETING ROOM 6   |
| 12:45-1:45 | Nancy Millis Student Awards  
Chair: Cheryl Power  
MEETING ROOMS 1, 2 & 3 | CliniCon Session 2  
Chair: Elton Mosqueda  
MEETING ROOM 6 |
| 2:00 - 3:30 | Nancy Millis Student Awards  
Chair: Cheryl Power  
MEETING ROOMS 1, 2 & 3 | 2:00  
Todd Pryce and Edward Raby  
Clinical and laboratory evaluation of the BioFire Respiratory Panel compared to SpeeDx PlexPCR  
MEETING ROOM 6 |
| 10 MINS    | Sally Byers  
A group of temperate bacteriophages equip their Klebsiella hosts with potent interbacterial weapons |
| 10 MINS    | Genevieve Kerr  
Clinical trial of a novel molecular RDT for the detection of Plasmodium falciparum in whole blood for use in low resource setting |
| 10 MINS    | Nicolle McCluskey  
Construction of a signal blind MisS sensor kinase for the determination of the inducing signal(s) of MisRS in Neisseria meningitidis. |
| 10 MINS    | Anja R Zelmer  
The bacterial invisibility cloak - how S.aureus can evade antibiotic treatments in chronic osteomyelitis |
| 10 MINS    | Catherine J Dawson  
Teaming up two ESKAPE: cross-feeding between Klebsiella pneumoniae and Acinetobacter baumannii promotes their co-existence |
| 3:30 - 4:00 | AFTERNOON TEA | EXHIBITION HALL                                                      |
| 2:40       | Kira Edwards  
Does the presence of heparin in nasopharyngeal swabs interfere with detection of SARS-CoV-2 by PCR? If so, can the effect be prevented through the addition of the heparinase I enzyme? |
| 2:50       | Tim J Inglis  
The evolution of deployable molecular diagnostic capability in Western Australia |
| 3:20       | Mathew Thomas  
Trip to Bali  
MEETING ROOM 6 |
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<th>Session</th>
<th>Title</th>
<th>Chair:</th>
<th>Location</th>
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<tr>
<td>4:00</td>
<td>1</td>
<td>Agricultural Microbiomes</td>
<td>Elizabeth Watkin &amp; Andrea McWhorter</td>
<td>MEETING ROOM 1</td>
</tr>
<tr>
<td>4:00</td>
<td>1</td>
<td>Kar-Chun Tan</td>
<td>Digital droplet PCR provides reference-free high throughput quantification of cereal pathogens in host samples</td>
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<tr>
<td>4:15</td>
<td>1</td>
<td>Jason Terpolilli</td>
<td>Evolution and diversity of rhizobia as legume symbionts and soil saprophytes</td>
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<tr>
<td>4:30</td>
<td>1</td>
<td>Barbara Drigo</td>
<td>Belowground Strategies for Sustainable Agricultural Systems: A Plant-Soil-Microbial Perspective</td>
<td></td>
</tr>
<tr>
<td>4:45</td>
<td>1</td>
<td>Sacha J Pidot</td>
<td>Bacterial endosymbionts protect beneficial soil fungus from nematode attack</td>
<td></td>
</tr>
<tr>
<td>5:00</td>
<td>1</td>
<td>Samiullah Khan</td>
<td>Salmonella Typhimurium vaccine diluent and dose minimally affect gut microbiota of layer chicks</td>
<td></td>
</tr>
<tr>
<td>5:10</td>
<td>1</td>
<td>Natasza M.R. Hain-Saunders</td>
<td>Horses as Sources? Clostridioides difficile in Western Australian Equine Populations: A One Health Genomic Approach</td>
<td></td>
</tr>
<tr>
<td>5:20</td>
<td>1</td>
<td>Georgina Stagg</td>
<td>Genetic determinants of host range in symbiotic Mesorhizobium ciceri strains WSM1497 and WSM1284</td>
<td></td>
</tr>
<tr>
<td>4:00</td>
<td>2</td>
<td>Clinical and Public Health Surveillance</td>
<td>Alfred Chin Yen Tay</td>
<td>MEETING ROOM 2</td>
</tr>
<tr>
<td>4:00</td>
<td>2</td>
<td>Amy V Jennison</td>
<td>Genomics for responding to emerging bacterial public health threats</td>
<td></td>
</tr>
<tr>
<td>4:15</td>
<td>2</td>
<td>Monica M. Lahra</td>
<td>The World Health Organization Global Antimicrobial Resistance and Use Surveillance System</td>
<td></td>
</tr>
<tr>
<td>4:30</td>
<td>2</td>
<td>Stephanie Neville</td>
<td>Dissecting the role of antimicrobial copper at the host-pneumococcal interface</td>
<td></td>
</tr>
<tr>
<td>4:45</td>
<td>2</td>
<td>Iain G Duggin</td>
<td>Contrasting the domains: archaeal versus bacterial cell division and morphogenesis</td>
<td></td>
</tr>
<tr>
<td>5:00</td>
<td>2</td>
<td>Winkie Fong</td>
<td>SABRe: In silico detection of drug resistance conferring mutations in subpopulations of SARS-CoV-2 genomes</td>
<td></td>
</tr>
<tr>
<td>5:10</td>
<td>2</td>
<td>Leah W Roberts</td>
<td>Repeated evolution of bedaquiline resistance in South African Mycobacterium tuberculosis is driven by truncation of the regulatory gene mmpR5</td>
<td></td>
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<tr>
<td>5:20</td>
<td>2</td>
<td>Georgia P Lynch</td>
<td>Defining the role of community transmission in carbapenemase resistance: a five-year case study of blaIMP and blaNDM</td>
<td></td>
</tr>
<tr>
<td>4:00</td>
<td>3</td>
<td>Molecular Microbiology</td>
<td>Kate Seib &amp; Thomas Watts</td>
<td>MEETING ROOM 3</td>
</tr>
<tr>
<td>4:00</td>
<td>3</td>
<td>Nhu Nguyen</td>
<td>Genomics of Escherichia coli causing neonatal meningitis</td>
<td></td>
</tr>
<tr>
<td>4:15</td>
<td>3</td>
<td>Stephanie Neville</td>
<td>Dissecting the role of antimicrobial copper at the host-pneumococcal interface</td>
<td></td>
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<td>Defining the role of community transmission in carbapenemase resistance: a five-year case study of blaIMP and blaNDM</td>
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TUESDAY 4 JULY
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>5:30 - 5:45</td>
<td><strong>BREAK</strong></td>
</tr>
</tbody>
</table>
| 5:45 - 7:15| **Award Lectures**  
Chair: Hayley Newton  
MEETING ROOMS 1, 2 & 3 |
| 15 MINS    | **Johanna Kenyon**  
Where bacterial extracellular polysaccharides and genomes meet |
| 15 MINS    | **Josh Ramsay**  
Diverse mechanisms of transfer, regulation and persistence employed by bacterial conjugative elements and their mobilizable companions |
| 15 MINS    | **Shakeel Mowlaboccus**  
Using Whole Genome Sequencing for Antimicrobial Resistance Profiling – MRSA as an example |
| 15 MINS    | **Laurence Luu**  
Microbial determinants of effective donors in faecal microbiota transplantation for ulcerative colitis |
| 7:15 - 8:45| **POSTER SESSION II AND TRADE NIGHT**  
EXHIBITION HALL  
Time to keep it all rolling. Relax after an intense and exciting day of presentations. Work your way through the booths of our trade partners and the second poster display. Drinks and snacks provided to sustain you before heading home or down to the waterfront |
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Environmental Microbiomes</td>
<td>Chairs: Tahlia Bastholm &amp; MacLean Kohlmeier</td>
</tr>
<tr>
<td>9:00</td>
<td>Belinda C Ferrari</td>
<td>East Antarctic soil microbiomes: who will be the winners and losers in a changing environment?</td>
</tr>
<tr>
<td>9:15</td>
<td>Anna H Kaksonen</td>
<td>Bioprospecting microbes for industrial and environmental applications</td>
</tr>
<tr>
<td>9:30</td>
<td>Sean K Bay</td>
<td>Atmospheric energy underlies microbial biodiversity and primary production in cave ecosystems</td>
</tr>
<tr>
<td>9:45</td>
<td>Elizabeth Watkin</td>
<td>Evolutionary pathway of acidihalobacter from a halophile to an acidihalophile</td>
</tr>
<tr>
<td>10:00</td>
<td>Gaofeng Ni</td>
<td>Metabolically flexible microorganisms rapidly colonise glacial forelands</td>
</tr>
<tr>
<td>10:10</td>
<td>Emma Kerr</td>
<td>Heavy metal and antibiotic resistance in benthic shark microbiomes</td>
</tr>
<tr>
<td>10:20</td>
<td>Mehrdad Hamidian</td>
<td>Analysis of plasmids found in environmental Acinetobacter strains reveals links with plasmids carried by major globally distributed clones</td>
</tr>
<tr>
<td>9:00</td>
<td>Bacteriophage</td>
<td>Chairs: Georg Fritz &amp; Johanna Kenyon</td>
</tr>
<tr>
<td>9:00</td>
<td>Bhavya Nalagampalli Papadeshi</td>
<td>The crAssphage host specificity puzzle</td>
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<tr>
<td>9:15</td>
<td>TBA</td>
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<tr>
<td>9:30</td>
<td>Anthony Kicic</td>
<td>Everything old is new again: revisiting bacteriophage to treat antimicrobial resistance; The Phage WA journey</td>
</tr>
<tr>
<td>9:45</td>
<td>Carola Venturini</td>
<td>Escherichia coli response to bacteriophage challenge</td>
</tr>
<tr>
<td>10:00</td>
<td>Claudia J Stocks</td>
<td>Enterococcus faecalis utilise neutrophils as an intracellular niche for replication and persistence</td>
</tr>
<tr>
<td>10:10</td>
<td>Akila Pilapitiya</td>
<td>Toxins from enteropathogenic Escherichia coli reveal approaches to combat diarrheal infections</td>
</tr>
<tr>
<td>9:00</td>
<td>Host Pathogen Interactions I</td>
<td>Chairs: Makrina Totsika &amp; Jhih-Hang Jiang</td>
</tr>
<tr>
<td>9:00</td>
<td>Stephan Brouwer</td>
<td>Detection of Streptococcus pyogenes M1UK in Australia and characterisation of the mutation driving enhanced expression of superantigen SpeA</td>
</tr>
<tr>
<td>9:15</td>
<td>Jessica L Rooke</td>
<td>Using Transposon insertion sequencing to understand Salmonella enterica biology.</td>
</tr>
<tr>
<td>9:30</td>
<td>Thomas Naderer</td>
<td>Staphylococcal pore forming toxins hijack host factors to kill</td>
</tr>
<tr>
<td>9:45</td>
<td>Martina Sanderson-Smith</td>
<td>Glycosaminoglycan interactions with Group A Streptococcal skin infection</td>
</tr>
<tr>
<td>10:10</td>
<td>Lisa A Brenton</td>
<td>Direct antimicrobial susceptibility testing for acute urinary tract infection – comparison of DxM 6100 Autoplak inoculation and AI-assisted zone interpretation with conventional susceptibility testing methods</td>
</tr>
<tr>
<td>10:20</td>
<td>Smathi Chong</td>
<td>Helicobacter pylori susceptibility testing in WA</td>
</tr>
</tbody>
</table>

**WEDNESDAY 5 JULY**
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>10:30 - 11:00</td>
<td>MORNING TEA</td>
</tr>
</tbody>
</table>
| 11:00 - 11:45 | Plenary Session  
       Chair: Tim Barnett                                                               |
| 11:00       | Shiranee Sriskandan  
       Turn and Face the Strange: Changes in Group A Streptococcus                  |
| 11:45-12:30 | Plenary Session  
       Chair: Nicole Bzdyl                                                             |
| 11:45       | Jennifer Pett-Ridge  
       Pursuing Wild Microbes: How Microbiome Interactions and Ecophysiological Traits Shape the Persistence of Soil Carbon |
| 12:30 - 2:00 | LUNCH | EXHIBITION HALL               |
| 2:00 - 3:30 | ECR Oral Awards  
       Chair: Rochelle So  
       MEETING ROOM 1                                                                 |
| 2:00 - 3:30 | Education Session  
       Chair: Megan Lloyd  
       MEETING ROOM 2                                                               |
| 2:00 - 3:30 | History Session  
       Chair: Cheryl Power  
       MEETING ROOM 3                                                              |
| 2:00       | CliniCon Session 5  
       Chair: Mikayla Kingston  
       MEETING ROOMS 6                                                             |
| 2:00 - 3:30 | 15 MINS  
       Emily L Gulliver  
       Distribution of phenotypic antimicrobial resistance in the gastrointestinal microbiome   |
| 2:00 - 3:30 | 15 MINS  
       MacLean G Kohlmeier  
       Complete genome sequencing and phylogenetic analysis of the Australian commercial rhizobial inoculants   |
| 2:00 - 3:30 | 15 MINS  
       Vijini Mallawaarachchi  
       Untangling bacteriophage communities associated with inflammatory bowel disease     |
| 2:00 - 3:30 | 15 MINS  
       Lachlan Dow  
       Harnessing wheat endophytes as novel methods of fungal disease control          |
| 2:00 - 3:30 | 15 MINS  
       Carrie Coggon  
       Available Soon                                                               |
| 12:00 - 13:00 | 12:45-1:45 CLINICON WORKSHOP - PFIZER  
       MEETING ROOMS 6                                                             |
| 2:00       | 2:00  
       Michael (Mike) Taylor  
       Public Water Supply – more than just pipes                                      |
| 2:30       | 2:30  
       Amy Jennison  
       Expanding role for metagenomics in microbiology: from diagnostics to precision public health |
| 3:00       | 3:00  
       Sue Benson  
       Bridging the chasm - mobilising micro lab data to improve patient care          |
<p>| 10 minute networking activity |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Event</th>
<th>Speaker(s)</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:30</td>
<td>Digital Citizenship</td>
<td>Stephanie Chang</td>
<td>Exhibition Hall</td>
</tr>
<tr>
<td>3:40</td>
<td>Exhibition/Meet and Greets</td>
<td>Mike Andrade</td>
<td>Exhibition Hall</td>
</tr>
<tr>
<td>4:00</td>
<td>Networked Intelligence</td>
<td>John Smith, Jane Doe</td>
<td>Exhibition Hall</td>
</tr>
<tr>
<td>4:15</td>
<td>The Future of Data Security</td>
<td>Mary Johnson</td>
<td>Exhibition Hall</td>
</tr>
<tr>
<td>4:30</td>
<td>Cybersecurity and Privacy Policies</td>
<td>Robert Smith</td>
<td>Exhibition Hall</td>
</tr>
<tr>
<td>4:45</td>
<td>Information Security</td>
<td>Sarah Lee</td>
<td>Exhibition Hall</td>
</tr>
<tr>
<td>5:00</td>
<td>Privacy and Transparency</td>
<td>David Kim</td>
<td>Exhibition Hall</td>
</tr>
<tr>
<td>5:15</td>
<td>Cybersecurity and Privacy Policies</td>
<td>Jane Doe, Mike Smith</td>
<td>Exhibition Hall</td>
</tr>
<tr>
<td>5:30</td>
<td>Conclusion/Networking</td>
<td>Mike Andrade</td>
<td>Exhibition Hall</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td>Location</td>
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<tr>
<td>5:30 - 5:45</td>
<td><strong>BREAK</strong></td>
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<tr>
<td>5:45 - 6:45</td>
<td><strong>Rubbo Oration</strong>&lt;br&gt;Chair: Dena Lyras</td>
<td>MEETING ROOMS 1, 2 &amp; 3</td>
<td></td>
</tr>
<tr>
<td>6:45 - 8:45</td>
<td><strong>RUBBO CELEBRATION</strong>&lt;br&gt;A conference tradition. A cocktail dinner and drinks will be served with background music and mood lighting to add to the atmosphere. Time to relax, maybe even dance, and celebrate the friendships, science and opportunities to share with, and learn from, each other.</td>
<td>BELLEVUE BALLROOM 2</td>
<td></td>
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</tbody>
</table>

**SUPPORTED BY**

Rubbo Trust
<table>
<thead>
<tr>
<th>Time</th>
<th>Meeting Room 1</th>
<th>Meeting Room 2</th>
<th>Meeting Room 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30</td>
<td><strong>Medical Mycology – Pathogenic Fungi making it on to the World Stage</strong>&lt;br&gt;Chairs: Megan Lenardon &amp; Kar-Chun Tan</td>
<td><strong>Early Childhood Health</strong>&lt;br&gt;Chairs: Cuong Tran &amp; Janessa Pickering</td>
<td><strong>Host-Pathogen Interactions II</strong>&lt;br&gt;Chairs: Jessica Rooke &amp; Nathan Unsworth</td>
</tr>
<tr>
<td>10:30</td>
<td>Monica A Slavin&lt;br&gt;Invasive Aspergillosis in Australia and New Zealand: 2017-2020</td>
<td>Catherine Satzke&lt;br&gt;Impact of pneumococcal conjugate vaccine introduction on the pneumococcal population in Mongolia</td>
<td>Liam K Sharkey&lt;br&gt;The two-component regulator WalKR provides an essential link between cell wall homeostasis with DNA replication in Staphylococcus aureus</td>
</tr>
<tr>
<td>10:45</td>
<td>Christopher Heath&lt;br&gt;Candida auris: the yeast of our worries...</td>
<td>Rebekah Henry&lt;br&gt;From Dirt to Disease: Unpacking the Impacts of Environments on Human Health in Low-Middle Income Countries through a One Health Lens</td>
<td>Richard L Ferrero&lt;br&gt;Bacterial extracellular vesicles target the host cell nucleus</td>
</tr>
<tr>
<td>11:00</td>
<td>Jan-Willem Alffenaar&lt;br&gt;WHO Fungal Priority Pathogens List</td>
<td>Brian Oliver&lt;br&gt;Early life determinants of lung development and function</td>
<td>Nicole Bzdyl&lt;br&gt;Macrophages versus Burkholderia pseudomallei; tipping the balance following deletion of the folding protein PpiB</td>
</tr>
<tr>
<td>11:15</td>
<td>Monica A Slavin&lt;br&gt;Cryptococcus infection in patients without HIV infection: a multicentre study in 48 hospitals from Australia and New Zealand</td>
<td>Christopher Blyth&lt;br&gt;Beyond Pathogen Detection - new approaches to the diagnosis and management of acute lower respiratory tract infection</td>
<td>Rachel F Rolfo&lt;br&gt;Wollamide cyclic hexapeptides synergise with tuberculosis antibiotics in targeting Mycobacterium tuberculosis</td>
</tr>
<tr>
<td>11:30</td>
<td>Julianne T Djordjevic&lt;br&gt;Impact of dysregulated phosphate homeostasis on fungal metabolism and virulence</td>
<td>Anita Williams&lt;br&gt;Bacteraemia and Antimicrobial Resistance in Paediatric Patients across Australia, 2020-21</td>
<td>Christine Ong&lt;br&gt;Clostridioides difficile infection perturbs colonic structure and slows gut transit</td>
</tr>
<tr>
<td>11:40</td>
<td>Hamideh Rezaee&lt;br&gt;Investigation into the roles of Scedosporium aurantiacum secondary metabolites in host-pathogen interactions</td>
<td>Ritika K Bahal&lt;br&gt;Microbiome-based intervention strategies for childhood pneumonia.</td>
<td>Ulrike Kappler&lt;br&gt;Sulfoxide repair in the respiratory pathogen Haemophilus influenzae – what is the connection between hypochlorite resistance, host immune responses and nutrient acquisition?</td>
</tr>
<tr>
<td>11:50</td>
<td>Evelyne Deplazes&lt;br&gt;Unravelling the mechanism of lactofungin, a peptide that shows potent synergy with the antifungal drug amphotericin</td>
<td>Anukindraratna&lt;br&gt;A new diagnostic approach for an old pathogen: is saliva the solution for Strep A?</td>
<td>Dylan DA Alexander&lt;br&gt;SARS-CoV-2 Spike interaction and effect on central carbon metabolism enzymes Lactate Dehydrogenase and Malate Dehydrogenase</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td>Authors</td>
<td>Abstract</td>
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<tr>
<td>12:00</td>
<td><strong>Plenary Session</strong></td>
<td>Chair: Ulrike Kappler,</td>
<td></td>
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<tr>
<td>12:20-1:05</td>
<td><strong>Neil A.R. Gow</strong></td>
<td>Structure of fungal cell wall immune epitopes: the origins of immunity</td>
<td></td>
</tr>
<tr>
<td>1:05-1:30</td>
<td><strong>Conference Close</strong></td>
<td>Closing remarks from ASM 2023 LOC, followed by closing remarks by ASM</td>
<td></td>
</tr>
</tbody>
</table>

**POSTER SESSION I**

**Cherrihan Adra**  
Termite gut-associated actinomycetes as biological control agents of Pyrrhotherma novium-induced brown root-rot disease in Brisbane, Australia abs# 101

**Samitha Bandaranayake**  
Genomic diversity of Salmonella Typhimurium in poultry from NSW abs#: 105

**Mel Bartczak**  
Genomic Analysis of Multi-resistant organisms in a tertiary hospital abs#: 107

**Justine Bendo**  
Investigating the role of SfyD in the virulence of Burkholderia pseudomallei abs#: 109

**Laura K Boelsen**  
Investigating genomic changes in circulating pneumococci following pneumococcal vaccine introduction in Lao PDR abs#: 111

**Kit A Burns**  
Cross-compatability of rhizobia to maximise nitrogen fixation in the new annual pasture legume Scorpiurus muricatus abs#: 113

**Natalia Callani**  
Could fungicide treatment lead to changes in the makeup of native grape yeast communities? abs#: 115

**Liraz Chai**  
A multiscale study of bacterial biofilms. From isolated components to multicellular organisms abs#: 117

**Chyden Chang**  
Central role of the transcriptional regulator MprA in coordinating antibiotic resistance, immune evasion and sialic acid metabolism abs#: 119

**Helena B Cooper**  
Developing a curated and validated pan-metabolic reference model for the Klebsiella pneumoniae species complex abs#: 121

**Aleksandra W Debowski**  
Testing the efficacy of novel macrophage infectivity potential protein inhibitors against Chlamydia trachomatis. abs#: 123

**Thinley Dorji**  
Genomic epidemiology of drug resistant tuberculosis in Victoria, Australia abs#: 125

**Rohan Flint**  
Assessing the effects of aerosolisation on bacteriophage viability and activity against P. aeruginosa abs#: 127

**David Garcia Mendez**  
Meta-analysis of the microbial diversity cultured in bioreactors simulating the gut microbiome: a key to unlocking the microbial dark matter abs#: 129

**Estopfana Gianmini**  
A versatile and straightforward new method for characterising protein-protein interactions in living cells abs#: 131

**Ethan Haese**  
Characterisation of the oxidative protein folding pathway in Neisseria gonorrhoeae abs#: 133

**Sophia Havas**  
Bladder-draining lymph nodes support germinal centre B cell responses during urinary tract infection in mice. abs#: 135

**Ryan Hesse**  
Biting Into the Shark Epidermal Virome abs#: 137

**Joe Hooton**  
Investigating the role of Trigger Factor in Neisseria gonorrhoeae protein folding and homeostasis abs#: 139

**Ashley Johnson**  
Molecular characterisation of the putative de novo biotin biosynthesis genes bioA and bioB from Burkholderia pseudomallei abs#: 141

**Mwila Kabwe**  
Isolation and characterisation of a novel prophage of the oral pathogen Solobacterium moorei. abs#: 143

**Ranmin Manaram Pankaja Kalukottege**  
Accessory nipple associated cystic neutrophilic granulomatous mastitis secondary to Congenital bacterium kroppestedtii infection: A case report. abs#: 145

**Jonathan Koong**  
Genomic Analysis of Carbapenem-Resistant Acinetobacter baumannii Strains Recovered from Chilean Hospitals Reveals Lineages Specific to South America and Multiple Routes for Acquisition of Antibiotic Resistance Genes abs#: 147

**Emma L Ledger**  
Impact of CFTR modulators on Pseudomonas aeruginosa infection in people with cystic fibrosis abs#: 149

**Gen (Tom) Li**  
IG-01-704: A novel lipophosphate antibiotic against Gram-positive multidrug-resistant bacterial infections abs#: 151

**Kak Ming Ling**  
Investigating the behaviour and efficacy of bacteriophages using in vitro primary airway epithelial cells abs#: 153

**Charmaine AC Lloyd**  
Students’ perspectives on a podcast-based assignment exercise, while learning to communicate about infections and vaccines abs#: 155

**Rutendo RE Mapengo**  
Comparative genomics and population structure of African Histoplasma capsulatum isolates. abs#: 161

**Kazuhioko Masuno**  
Smart visualization for the detailed taste of the edible mushroom, Pholiota nameko abs#: 163

**Harley McRae**  
Genomic and transcriptomic analyses of Methanosphaera spp. reveal evidence of host-adaptation abs#: 165

**Yasumasa Miyazaki**  
Protozoic transition during fruiting body formation in the black mushroom, Lentinula edodes abs#: 167

**Warasinee Mujchariyakul**  
Exploring the molecular signatures of Staphylococcus aureus transition into human serum using multi-omics analysis abs#: 169

**To Nguyen**  
Uncovering the regulatory networks for Klebsiella pneumoniae iron acquisition abs#: 171

**Grace O'Reilly**  
USE OF BACTERIOPHAGES TO MANAGE VIRULENT R. EQUI BURDENS IN THE SOIL OF HORSE BREEDING FARMS abs#: 173

**Harrrchun Panchalingam**  
Assessing Compatibility of Trichoderma and Actinomycetes in the Biological Control Consortium Developed for Managing Wood Decaying Phytopathogen Pyrrhoderma noxium abs#: 175

**Hari Kumar Peguda**  
In vitro labelling of Acanthamoeba trophozoites using ligand conjugated fluorescein isothiocyanate (FITC). abs#: 177
Lauren Schooth
The duodenal mucosa-associated microbiota varies among subjects suffering from different disorders of gut brain interactions. abs# 188

Shakeel Shahzad
Evaluation of patterns of susceptibility of clinical isolates of Acinetobacter spp towards polymyxins and different cationic antimicrobials abs# 190

Hui Juin Shak
Clyle interaction with bacteria and mesothelioma cells abs# 192

Azhar S Sindi
Effect of a reduced fat and sugar maternal dietary intervention during lactation on the infant gut microbiome abs# 194

Jess Spithoven
The metabolic influence of the gut microbiome in Parkinson’s Disease abs# 196

Donald TAHANI
Laboratory diagnostic performance of sputum smear microscopy in Solomon Islands. abs# 198

Mona L Taouk
Modelling the transmission of Neisseria gonorrhoeae in Melbourne, Victoria, 2017 – 2021 abs# 200

Vanessa Tenaglia
Establishing an in vitro model to study early-life bacterial-bacterial interactions in the upper respiratory tract abs# 202

Liam A Tobin
Genomic Analysis of Acinetobacter Strains Recovered from South Australian Aquatic Samples provides Insights into the Circulation of Antibiotic Resistance determinants in the Environment abs# 204

Megan Triantafilou
The circulation of human influenza in the Oceanic region following the COVID-19 pandemic abs# 206

Dimitrios Vagenas
Fitting the best statistical model: A case study on longitudinal urinalysis data of uropathogenic Escherichia coli infection in mice. abs# 208

Heema K N Vyas
Assessing the Efficacy of Plasma Activated Water as a Pre-Treatment Strategy for Biofilm-Infected Chronic Wounds abs# 210

Isabel Warner
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