### Seminar Series – Week Commencing 25 November 2019

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<tr>
<th>Name of Presenter</th>
<th>Title of Presentation</th>
<th>Date</th>
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<th>Venue</th>
<th>Further Information</th>
<th>Seminar Series</th>
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<tr>
<td>Prof Robert Solari&lt;br&gt;Visiting Prof, Imperial College London, Advisor, Brandon Capital Partners</td>
<td>Target validation in the drug discovery process</td>
<td>25 November 2019</td>
<td>12pm – 1pm</td>
<td>Telethon Kids Institute Seminar Room, Level 5, Perth Children’s Hospital</td>
<td>CLICK HERE</td>
<td>Telethon Kids Innovation Forums</td>
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<tr>
<td>Dr Kandice Varcin,&lt;br&gt;CliniKids, TKI</td>
<td>Optimising early development: The development, piloting and testing of a parent-mediated intervention in early infancy</td>
<td>27 November 2019</td>
<td>12pm – 1pm</td>
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<td>CLICK HERE</td>
<td>Telethon Kids Research Seminars</td>
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<tr>
<td>Dr Christopher Minson&lt;br&gt;Kenneth and Kenda Singer Professor</td>
<td>Heat therapy: An ancient practice to target modern diseases</td>
<td>27 November 2019</td>
<td>1pm</td>
<td>John Bloomfield Lecture Theatre, UWA School of Human Sciences adjacent to Parkway Entrance 3. <a href="#">Google Map Link Here</a></td>
<td>CLICK HERE</td>
<td>School of Human Sciences Seminar Series</td>
</tr>
<tr>
<td>Dr Riccardo Natoli,&lt;br&gt;ANU</td>
<td>Blinded by the light: the role of miRNA in light induced retinal degenerations</td>
<td>28 November 2019</td>
<td>3pm</td>
<td>Sarich Neuroscience Research Institute Building, Bryant Stokes Seminar Room, Ground Floor</td>
<td>CLICK HERE</td>
<td>The Bryant Stokes Neuroscience Seminar Series</td>
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</table>
### 6th Annual EMBL Australia Postgraduate Symposium (EAPS19)

**27 – 29 November 2019 EAPS19** - *From Models to Systems Deciphering Biological Complexity*

Registrations Open – 10 June 2019
Registrations Close - 1 November 2019
Abstract Submissions Close – 6 September 2019

**Meet interstate and international speakers and researches from various disciplines.**

**Invited speakers:**
- Prof Christine Wells, (Uni Melbourne)
- Prof Nadia Rosenthal, (Jackson Laboratories USA)
- Dr Damien Bates, BioCurate
- Dr Chris Langmead, Monash Inst. of Pharmaceutical Sciences
- Dr Talitha Santini, UWA
- Dr Irene Gallego Romero, Uni Melbourne
- Prof Matt Sweet, Inst. of Molecular Bioscience, UQ
- Prof. Ricky W. Johnstone, Peter MacCallum Cancer Centre
- A/Prof Enzo Porrello, Murdoch Children’s Research Inst.
- Prof Dahbia Talbi, Uni of Montpellier
- Dr Daniel Green, UWA
- Dr Louise Naylor, UWA
- Dr Johan Rosengren
- A/Prof Yuben Moodley, UWA
- Various Speakers

**Victorian Comprehensive Cancer Centre, Melbourne**

For more information & to register: [EAPS19](#)

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<tr>
<th>Speaker/Event</th>
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<tr>
<td>Prof Dahbia Talbi, Uni of Montpellier</td>
<td>The Exotic Chemistry of Space</td>
<td>28 November 2019</td>
<td>12noon</td>
<td>Bayliss Building Lecture Theatre G33</td>
</tr>
<tr>
<td>Dr Daniel Green, UWA &amp; Dr Louise Naylor, UWA</td>
<td>Exercise and Your Health</td>
<td>28 November 2019</td>
<td>1pm – 2pm</td>
<td>The City of Perth Library’s Auditorium, 573 Hay St, Perth</td>
</tr>
<tr>
<td>Dr Johan Rosengren</td>
<td>Structure based targeting of the relaxin-3 neuropeptide RXFKP3</td>
<td>29 November 2019</td>
<td>12noon</td>
<td>Bayliss Building Lecture Theatre G33</td>
</tr>
<tr>
<td>A/Prof Yuben Moodley, UWA</td>
<td>Addressing challenges in lung diseases: A collaboration across the organ systems</td>
<td>29 November 2019</td>
<td>3pm</td>
<td>4th Floor Seminar Room, Medical Research Foundation Building, Rear 50 Murray St, Perth</td>
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| Institute for Respiratory Health: The Next 20 Years | 29 November 2019 - 20th Anniversary Research Symposium | Various Speakers | Session themes include:  
- Institute for Respiratory Health: the first 20 years  
- Respiratory Omics; clarity or confusion  
- Lung disease emerging targets and therapies  
  Philip Thompson Oration - *Prof Gary Anderson, Director of the Lung Health Research Centre, Uni of Melbourne*  
  “Turning tears into medicines for serious lung diseases” | Institute for Respiratory Health |
### UPCOMING SEMINARS

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<tr>
<th>Speaker/Title</th>
<th>Date</th>
<th>Time</th>
<th>Venue</th>
<th>Link</th>
<th>Organizers</th>
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<tr>
<td>A/Prof Jasper Schipperijn, <em>Changing the Built Environment changes children’s behavior</em></td>
<td>2 December 2019</td>
<td>3pm – 4pm</td>
<td>Telethon Kids Institute Seminar Room Level 5, Perth Children’s Hospital</td>
<td>[CLICK HERE]</td>
<td>Telethon Kids Research Seminars</td>
</tr>
<tr>
<td>Dr Joost Lesterhuis, <em>Towards effective immunotherapy for paediatric sarcoma</em></td>
<td>4 December 2019</td>
<td>12pm – 1pm</td>
<td>Telethon Kids Institute Seminar Room, Level 5, Perth Children’s Hospital</td>
<td>[CLICK HERE]</td>
<td>Telethon Kids Research Seminars</td>
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### 2020 SEMINARS

<table>
<thead>
<tr>
<th>Seminar/Details</th>
<th>Dates</th>
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<th>Link</th>
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<tr>
<td><strong>Mixomics</strong>&lt;br&gt; <em>Instructor:</em> Dr Kim-Anh Lê Cao&lt;br&gt; Beginner workshop for microbiome-omics data analysis&lt;br&gt; More details on the attached flyer, we also have made a 50 min webinar available to present the different methods and their application: <a href="http://mixomics.org/2019/09/webinar-mixomics-in-50-minutes/">http://mixomics.org/2019/09/webinar-mixomics-in-50-minutes/</a>&lt;br&gt; Four RHD student bursaries to cover 50% of the registration costs are generously supported by WAHTN.&lt;br&gt; Register your interest here: Mixomics</td>
<td>3-5 February – Mixomics</td>
<td>CLICK HERE</td>
<td>WAHTN/WAHMCC</td>
<td></td>
</tr>
<tr>
<td><strong>Human Genome Meeting 2020</strong>&lt;br&gt; Abstracts for the 24th Annual Human Genome Meeting in either Oral Presentation or Poster Presentation are invited - please submit to: <a href="#">HGM 2020 Abstracts Submission</a>&lt;br&gt; Oral Abstract Submissions close Friday 10 January Midnight AWST&lt;br&gt; Poster Abstract Submissions close Friday 7 February Midnight AWST</td>
<td>5 – 8 April 2020 Perth Convention &amp; Exhibition Centre</td>
<td>CLICK HERE</td>
<td>HUGO HGM 2020</td>
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<td>GAP 2020 - Global Academic Programs</td>
<td>11 - 13 May 2020</td>
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<td>MD Anderson Cancer Center Global Academic Programs is coming to Australia</td>
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<tr>
<td>Call for Abstracts is now open - Registration open 1 September 2019 - Sponsorship opportunities available</td>
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<td>CLICK HERE</td>
<td>GAP 2020</td>
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</tr>
<tr>
<td>To Register and for Abstract Submissions:</td>
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</table>
Target validation in the drug discovery process

Prof Roberto Solari
Visiting Professor, Imperial College London
Advisor, Brandon Capital Partners

Synopsis:
This talk will give an overview of the process of drug discovery and will highlight the importance of picking and validating the right target. It will cover the basic techniques of target discovery and validation and how new technologies have influenced productivity in Pharma.

Bio:
Roberto Solari is a research biologist and is a Visiting Professor at the National Heart and Lung Institute, Imperial College London and also acts as an advisor to Brandon Capital Partners. Prior to this Roberto was Vice President in GSK’s Respiratory Therapy Area based in Stevenage in the UK where his role covered drug discovery from target identification through to proof of concept studies in man. Roberto joined Glaxo in 1986 after two post-docs at the Institut de Biochimie, Universite de Lausanne and at Liverpool University. Roberto has a BSc and PhD in Physiology and Cell Biology from Nottingham University. He is currently CEO of a new spinout company from Imperial College and the Francis Crick Institute called Myricx Pharma.
HOW TO FIND US

1. Enter the QEIMC Multi Deck Car Park from WINTHROP AVENUE on the ground floor.

2. Walk across the open space.

3. Enter Perth Children's Hospital through the NORTHERN ENTRANCE.

4. Concierge on the ground floor.
Dr Kandice Varcin

Postdoctoral Research Fellow
CliniKids
Telethon Kids Institute

Optimising early development: The development, piloting, and testing of a parent-mediated intervention in early infancy

Kandice is postdoctoral research fellow with the Autism Research Team at Telethon Kids Institute. Prior to joining Telethon Kids Institute, Kandice was a Research Fellow in the Laboratories of Cognitive Neuroscience at Harvard Medical School/Boston Children’s Hospital. Kandice is also a registered psychologist in Australia. Kandice’s research is focused on identifying the earliest brain and behavioural markers of developmental disorders. Her work, as a clinician-scientist, is motivated by the overarching goals of (i) developing earlier and more precise methods of diagnosis for developmental disorders (especially for Autism Spectrum Disorders), and (ii) designing and implementing very early interventions for infants at risk of neurodevelopmental disorders in order to optimise the developmental potential of each child.
Title: Heat Therapy: An ancient practice to target modern diseases

Presenter: Christopher T. Minson, Phd 
Kenneth and Kenda Singer Professor

When: Wednesday 27 November 2019 @ 1pm

Venue: John Bloomfield Lecture Theatre, UWA, School of Human Sciences (Exercise and Sport Science) adjacent to Parkway Entrance 3. Parking on Parkway and in UWA carpark entrances 3 & 4. 
https://goo.gl/maps/D1RQGxN5wGNUZfdRA

Presentation Summary:
Chronic heat exposure, in the form of saunas, hot water baths, and sweat lodges have been utilized in many cultures for thousands of years. While repetitive bouts of heat exposure is generally believed to be healthy, it is only recently that we are beginning to understand the full benefits of ‘heat therapy’ across the spectrum of human health. Passive heating results in a rise in body temperature and changes in cardiovascular hemodynamics, including altered shear patterns of blood flow. There is growing evidence that these responses to acute heat stress combine over repetitive sessions to provide a stress-resistant profile to counter inflammation and oxidative stress, as occurs with aging and chronic disease, as well as from acute damaging events such as ischemia-reperfusion injury. There is also growing evidence heat therapy can be used to target metabolic dysfunction in obesity and diabetes through improvements in insulin signaling in fat and muscle cells. This ancient therapy needs broader application to treat modern diseases, particularly in those not able to obtain the full benefits of exercise.

Speaker Biography:
Dr. Christopher Minson is the Kenneth and Kenda Singer Professor of Human Physiology. His research focuses on topics related to integrative cardiovascular physiology in humans. His lab investigates how we can use exposures to extreme environments to gain a healthy and resilient physiology. He is also involved in projects related to endocrine function in women, biomarkers of aging and the risk of cardiovascular and metabolic diseases, and finding novel ways to improve thermal comfort and safely in work environments. He also works with elite athletes in the use of environmental stressors to improve performance.
Blinded by the light: the role of miRNA in light induced retinal degenerations

Summary of the Presentation: Age-Related Macular Degeneration (AMD) is the leading cause of blindness in the western world, affecting ~200 million people globally with an expected prevalence of ~288 million by 2040. Unless treatments are found to slow the progression of these diseases, 1 in 7 of us over the age of 50 will be affected by degeneration of our central vision, leading in many cases to irreparable blindness. In this seminar Dr. Riccardo Natoli (The Australian National University, Canberra) will discuss his laboratory's work on retinal microRNA (miRNA), the master regulators of gene transcription, and how by understanding their role in retinal degenerations we might develop novel therapeutics and diagnostics for treating retinal diseases such as AMD.

Short Bio
I am interested in novel strategies that reduce the severity and progression of Age-related Macular Degeneration (AMD). I aim to understand the factors that cause photoreceptors to die, and identify novel ways to protect them from degeneration. My recent work focuses on the role of microRNA (miRNA) in the degenerating retina, and examines their potential use as therapeutics. My ground-breaking work into understanding and treating this disease is funded by competitive funding agencies (such as Ophthalmic Research Institute of Australia, Retina Australia and the National Health and Medical Research Council), industry partnerships (such as EyeCo, BetaTherapeutics and Thermo Fisher Scientific), through innovation investment funding (Discovery Translational Fund) and in 2018 was awarded the prestigious ANU Translational Fellowship, all contributing to achieving my aim to address this major global health issue.
I have also developed a non-invasive treatment strategy to revolutionise the management of premature infants at risk of developing Retinopathy of Prematurity (ROP) and increasing survivability, currently and ongoing collaboration with members of the ANU Medical School and Canberra Hospital.
I have contributed to 50 publications, as well as presented at international and national conferences including the Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, International Society for Eye Research (ISER) the International Symposium on Retinal Degeneration (RD).
I consider research-led education as an integral part of a researcher’s career. I am a lecturer in genetics and cell biology in the ANU Medical School, supervise/co-supervise 6 PhD students. I helped to establish, and convene the JCSMR HDR Mentoring Program, as well as am 2nd Year Coordinator for the ANU Medical School. In 2017, I established Clear Vision Research to support the next generation of vision researchers (www.clearvisionresearch.com).
The 6th Annual EMBL Australia Postgraduate Symposium

From Models to Systems
Deciphering Biological Complexity

27-29 November 2019
Victorian Comprehensive Cancer Centre, Melbourne

Join us in Melbourne for EAPS19 to present your research to your peers and hear from world-class researchers! We welcome and encourage all Honours, Masters & PhD Students to attend and submit an abstract.

Invited speakers

Prof. Christine Wells, The University of Melbourne
Prof. Nadia Rosenthal, The Jackson Laboratories (USA)
Dr. Damien Bates, BioCurate
Dr. Chris Langmead, Monash Institute of Pharmaceutical Sciences
Dr. Talitha Santini, The University of Western Australia
Dr. Irene Gallego Romero, The University of Melbourne
Prof. Matt Sweet, Institute of Molecular Bioscience, UQ
Prof. Ricky W. Johnstone, Peter MacCallum Cancer Centre
A/Prof. Enzo Porrello, Murdoch Children’s Research Institute

Follow us!
W https://eaps.org.au/
f @EMBLPhdsymposium	@EMBLAuSymposium
Presenter: Professor Dahbia Talbi – University of Montpellier
Title: The Exotic Chemistry of Space
Date: Thursday 28th November @ 12 noon
Venue: Bayliss Building Lecture Theatre G33

If you have suggestions for speakers, please contact our seminar coordinators Nicole Smith nicole.smith@uwa.edu.au and Heng Chooi yitheng.chooi@uwa.edu.au with the details and to make arrangements for an invitation.
Exercise and Your Health

Discover things you never knew about the health effects of exercise and learn how it benefits you across your lifespan at this FREE community health event.

A Q&A session will follow.

Our Speakers

Dr Louise Naylor is a researcher and senior lecturer at The University of Western Australia’s School of Human Sciences and an Exercise and Sports Science Australia Accredited Exercise Physiologist. She believes exercise is medicine and can be used to treat, prevent or reduce the impact of chronic disease. Her research explores how exercise training can contribute to rehabilitating and improving health outcomes in individuals with, or at risk of, cardiovascular disease. Childhood obesity and adolescents with Type 2 diabetes are another focus of her work.

After completing her undergraduate degree and PhD at UWA, Dr Naylor commenced her research career working with both elite athletes and chronically ill individuals with conditions such as heart failure and obesity. Her research investigated how exercise can improve health and wellbeing, quality of life, depression and anxiety.

In a growing and research-led field, her projects have spanned topics such as understanding how to optimise prescriptions for survivors of cancer, patients with heart failure, ageing men, and patients with diabetes.

Her research further investigates the need for exercise programs to be personalised to be effective, and the difference between different individual responses to exercise programs and why some people don’t respond at all.

As an ESSA Accredited Exercise Physiologist, Dr Naylor works as a Senior Exercise Physiologist in the Cardiac Rehabilitation Service at Fiona Stanley Hospital and is a member of UWA’s Cardiovascular Research Group.

Dr Daniel Green is a Winthrop Professor at The University of Western Australia and a Principal Research Fellow of the National Health and Medical Research Council of Australia. His 25-year career as a scientist started at Royal Perth Hospital where, with Roger Taylor and Gerry O’Driscoll, he established the first research-intensive cardiac rehabilitation service for heart failure and heart transplant patients in Australia.

After stints at the Mayo Clinic and St George’s Hospital in London, Danny returned to The University of Western Australia where he established a centre for clinical trials of exercise and lifestyle interventions in humans. He returned to the UK in the mid 2000s to accept the Chair of Cardiovascular Physiology in Liverpool, where he replicated his RPH and UWA experience by establishing clinical exercise physiology as an allied health profession in the NHS and in the higher education system.

In the late 2000s Danny, once again, returned to Perth where he now holds an NHMRC Fellowship and leads a team of 20 staff and graduate students whose research encompasses the lifespan; from exercise training and physical activity in the prevention atherosclerosis in obese children and adolescents, to research on the best combination of exercise and medications in the management of patients with hypercholesterolemia, diabetes, coronary disease and heart failure patients awaiting transplantation.

Event Information

WHEN: Thursday, 28 November 2019, from 1pm to 2pm (please arrive by 12.50pm to secure your seat in advance of the talk commencing at 1pm)

WHERE: The City of Perth Library’s Auditorium, 573 Hay St, Perth WA (note: this is not the State Library)

COST: FREE


PHONE ON 08 9224 0357 OR EMAIL INFO@RPHRESEARCHFOUNDATION.ORG.AU

THIS FREE COMMUNITY EVENT IS PROUDLY BROUGHT TO YOU BY RPH RESEARCH FOUNDATION IN COLLABORATION WITH THE UNIVERSITY OF WESTERN AUSTRALIA’S SCHOOL OF HUMAN SCIENCES AND WESTERN AUSTRALIAN CARDIOVASCULAR RESEARCH ALLIANCE (WACRA).
THE BAYLISS SEMINAR SERIES

Presenter: Johan Rosengren
Title: Structure based targeting of the relaxin-3 neuropeptide RXFKP3
Date: Friday 29th November @ 12 noon
Venue: Bayliss Building Lecture Theatre G33

If you have suggestions for speakers, please contact our seminar coordinators Nicole Smith nicole.smith@uwa.edu.au and Heng Chooi yitheng.chooi@uwa.edu.au with the details and to make arrangements for an invitation.
RPH MEDICAL RESEARCH FORUM
Seminar Series 2019

4th Floor Seminar Room
Medical Research Foundation Building
Rear 50 Murray St, Perth WA 6000
Friday @ 3pm
Enquiries: W/Prof Markus Schlaich
Ph: 08 9224 0382 E: markus.schlaich@uwa.edu.au

TIME: FRIDAY, 29 NOVEMBER 2019 @ 3pm
VENUE: 4th Floor Seminar Room, MRF Building, Rear 50 Murray Street, Perth
PRESENTER: A/ Professor Yuben Moodley
TITLE: Addressing challenges in lung diseases: A collaboration across the organ systems

Yuben Moodley is an Associate Professor at The University of Western Australia and consultant Respiratory Physician at Fiona Stanley Hospital. His lab undertakes research in regenerative medicine and also the pathogenesis and management of Chronic Obstructive Pulmonary disease as well as Idiopathic Pulmonary Fibrosis.

LIGHT REFRESHMENTS WILL BE SERVED IMMEDIATELY FOLLOWING THE PRESENTATION
Institute for Respiratory Health: The Next 20 Years
20th Anniversary Research Symposium

Friday 29th November 2019
McCusker Auditorium, Harry Perkins Institute of Medical Research
Two $500 poster prizes available for students and ECR’s
Registrations now open

Session themes include:
• Institute for Respiratory Health: the first 20 years
• Respiratory Omics; clarity or confusion
• Lung disease emerging targets and therapies

Philip Thompson Oration
The day will finish with the Philip Thompson Oration, which will be delivered by Professor Gary Anderson, Director of the Lung Health Research Centre at the University of Melbourne, and will be followed by a cocktail function.

FOR FURTHER DETAILS VISIT
WWW.RESPHEALTH.ORG.AU
Institute for Respiratory Health: The Next 20 Years
29th November 2019
Symposium | Philip Thompson Oration and Cocktail Function
Free registration at www.resphealth.org.au
Session 1  Institute for Respiratory Health – the first 20 years
Chair: Emeritus Professor Geoffrey Stewart and Associate Professor Cecilia Prêle

8.30 am  Registration open

9.00 am  Welcome
Welcome to country
Opening from Hon Roger Cook, Deputy Premier

9.25 am  The Institute for Respiratory Health – 20 years in the making
Professor Philip Thompson
Institute for Respiratory Health and Sir Charles Gairdner Hospital

9.45 am  Plenary Presentation
Journey to the centre of the lung: Barriers, dogma and the matrix
Professor Darryl Knight
President, Providence Health Care Research Institute, VP, Research & Academic Affairs, Providence Health Care and Associate Dean – Research, Faculty of Medicine, University of British Columbia

10.15 am  Mesothelioma: Dark side of the lung
Associate Professor Steven Mutsaers
Tissue Repair Unit, Institute for Respiratory Health

10.30 am  Update on research at the WA Adult Cystic Fibrosis Centre
Dr Anna Tai
Sir Charles Gairdner Hospital and Adult Cystic Fibrosis Unit, Institute for Respiratory Health

10.45 am – 11.15 am:  Morning tea
Session 2  Respiratory – Omics; clarity or confusion?
Chair: Professor Richard Lake and Dr Nandini Makwana

11.15 am  Plenary Presentation
Decoding respiratory disease with systems biology
Dr Anthony Bosco
Telethon Kids Institute

11.40 am  Dichotomising in high dimensions - using genomic data to explore phenotypes with bulk and single cell data
Dr Melvin Chin
Sir Charles Gairdner Hospital and NCARD, University of Western Australia

11.55 am  Metabolomics in pleural effusion: A novel tool to improve the diagnosis and treatment of mesothelioma
Dr Sally Lansley
Pleural Medicine Unit, Institute for Respiratory Health

12.10 pm  Molecular determinants of IPF progression
Dr Britt Clynick
Stem Cell Unit, Institute for Respiratory Health

12.25 pm  Using a multi-omic approach to assess primary airway epithelial responses to rhinovirus infection in children with and without cystic fibrosis
Dr Patricia Agudelo-Romero
Telethon Kids Institute

12.40 pm  Can we predict the development of asthma using metabolomic biomarkers? A pilot study
Dr Ingrid Laing
Telethon Kids Institute

12.55 pm – 2.30 pm: Lunch and poster session
Session 3  Lung disease – emerging targets and therapies
Chair: Dr Dino Tan and Ms Tylah Miles

2.30 pm  Plenary Presentation
Restraining tumour associated macrophages to treat invasive cancers
Associate Professor Fiona Pixley
University of Western Australia

2.55 pm  What’s new in e-cigarette research
Associate Professor Alex Larcombe
Telethon Kids Institute

3.15pm  Chemico-pharmacological strategies for blocking the toxicity
of the inhaled pollutant acrolein
Associate Professor Phil Burcham
School of Biomedical Sciences, University of Western Australia

3.30 pm  Shifting the paradigm for non tuberculous mycobacterium disease
Professor Grant Waterer
Royal Perth Hospital

3.45 pm  Clinical trials and the evolution of CFTR modulator therapy
Clinical Associate Professor Siobhain Mulrennan
Sir Charles Gairdner Hospital and Adult Cystic Fibrosis Unit,
Institute for Respiratory Health

4.00 pm  Mechanopharmacology
Dr Peter Noble
University of Western Australia

4.15 pm  Novel clinical trials in pleural disease
Dr Deirdre Fitzgerald
Sir Charles Gairdner Hospital and Pleural Medicine Unit,
Institute for Respiratory Health

4.30 pm – 5.00 pm: Afternoon tea and break
PHILIP THOMPSON ORATION AND COCKTAIL FUNCTION

FRIDAY 29TH NOVEMBER
5.00PM – 7.30PM

Professor Gary Anderson
Director of the Lung Health Research Centre,
University of Melbourne

“Turning tears into medicines for serious lung diseases”

In keeping with Phil Thompson’s never-ending quest for excellence and innovation in Australian science, Professor Gary Anderson will talk about a project that has taken well over 10 years and involved overcoming some very difficult problems.

The idea that science could turn human tears into life-saving medicines for lung diseases may seem improbable, but it is now reality.

And even more remarkably, this entire story starts with a butterfly...

5.00pm – 6.00pm – Oration
6.00pm – 7.30pm – Cocktail function


For further details please contact Sarah Cermak on: sarah.cermak@resphealth.uwa.edu.au or call 6151 0815.
Invited Guest Speaker

Assoc Professor Jasper Schipperijn
Research Unit, Active Living
University of Southern Denmark

“Changing the Built Environment changes children’s behaviour”

Jasper Schipperijn is an Associate Professor with the Research Unit for Active Living at the University of Southern Denmark. His research focuses on studying the relation between the built and natural environment and human behavior, and in particular evaluating the effect of changes to the environment on behavior. One of his interest lies in developing methods to objectively describe behavior and the environment that behavior takes place in. Much of his work builds on intervention studies or natural experiments that involved changes to the built environment, e.g. creating or renovating schoolyards, urban green spaces, public open space, and bicycling facilities. Jasper has published over 85 peer-reviewed articles and numerous reports and popular publications.

Jasper has an extensive international network and he is president-elect for the International Society of Physical Activity and Health (ISPAH).
Nicole Sheers
PhD Candidate, Institute for Breathing and Sleep
Senior Respiratory Physiotherapist, Victorian Respiratory Support Service, Austin Health

Airway clearance techniques: why, what, and when?
A clinician-researcher’s approach

Nicole is a senior physiotherapist with extensive clinical experience in implementing non-invasive ventilation and providing acute and long-term respiratory physiotherapy management for adults with chronic ventilatory failure.

She has completed a randomised controlled trial investigating the effects of Lung Volume Recruitment ("breath-stacking") on respiratory function, symptoms and quality of life of people living with Neuromuscular Disease, and will shortly submit her PhD on this topic. She was a member of the 228th European Neuromuscular Centre (ENMC) International Workshop on Airway Clearance Techniques in Neuromuscular Disorders which produced two “State of the Art” publications in this field, and has presented at national and international conferences and workshops.
Dr Joost Lesterhuis

NHMRC RD Wright Research Fellow
Telethon Kids Institute and
School of Biomedical Sciences
University of WA

Towards effective immunotherapy for paediatric sarcoma

Dr (Willem) Joost Lesterhuis is an NHMRC RD Wright Research Fellow at the University of Western Australia and an Honorary Research Fellow at Telethon Kids Institute. He has a background as a dual-trained medical oncologist and basic researcher in cancer immunology.

Joost obtained his MD at the Free University in Amsterdam 2001, and completed his medical oncology specialisation and his PhD in immunology at the Radboud University in Nijmegen, The Netherlands in 2010. From 2011-2012 he was a visiting post-doc at the University of Western Australia. Since 2013, when he and his family moved permanently to Australia, he has been a fulltime research fellow at the School of Biomedical Sciences at UWA, with special focus on cancer immunology research. Since October 2018 he heads the Sarcoma Group at the Cancer Centre of the Telethon Kids Institute.

His research focuses on identifying new effective treatment combinations in in cancer, in particular mesothelioma and paediatric sarcoma, focusing on immunotherapy. His research combines several fields of science including cancer immunology, systems biology, pharmacology/drug discovery and translational oncology. Joost published over 60 peer-reviewed publications, and translated several of his laboratory findings into clinical trials. He was awarded an NHMRC Excellence Award in 2017.

Wednesday 4 December 2019
12pm – 1pm
Telethon Kids Institute Seminar Room
Level 5, Perth Children’s Hospital

Streaming link : click here
Password telethonkids_seminar

A light lunch will be provided at 11.45am for those attending the seminar
Beginner workshop for microbiome-omics data analysis
3-5 Feb 2020, Perth (AUS)

Hosted by West Australian Heath Translational Network (WAHTN) and WA Human Microbiome Collaborating Centre (WAHMCC), Curtin University.

Complex microbial networks have a central role in the provision and regulation of ecosystems. Multiple microbial biotechnology applications are contributing to global efforts to achieve sustainability - through purification of wastewater, waste valorisation, bioenergy production, or to understand the role of microbiome in human disease and healthy states.

Statistical analysis of microbiome data is challenging due to the inherent characteristics of the data, such as high sparsity and compositional structure. Our workshop will discuss these challenges, and introduce major concepts of multivariate dimension methods developed in mixOmics. Methods in mixOmics make no distributional assumptions, are highly flexible for unsupervised (exploratory), supervised (classification) and integration analyses. Various analytical frameworks will be presented ranging from data exploration, selection of markers, integration with other omics datasets and introduction to time-course analysis. Each methodology will be illustrated on real biological studies. The third day is ‘BYO data’ day where you can reinforce your learnings on your own study! Note that the workshop is not limited to microbiome data only, as we will cover general omics data integration concepts. More information on our website.

Pre-requisite: a good working knowledge in R programming (e.g. handling data frame, perform simple calculations and display simple graphical outputs) to fully benefit from the course.

Instructor: Dr Kim-Anh Lê Cao

Four RHD students bursaries to cover 50% of the registration costs are generously sponsored by WAHTN. Register your interest here. EOI closes: 4 Nov 5pm AEST. Bursary recipients and registration link will be sent after this date.
On behalf of the local organising committee and HUGO, it is our great pleasure to invite you to submit an abstract for the 24th Annual Human Genome Meeting to be held in Perth, Western Australia on April 5 - 8, 2020. The committee encourages applicants to submit recent work for consideration in either an Oral Presentation and/or Poster Presentation. Inclusion of original work not previously published is highly encouraged. The contribution of presenters like yourself is crucial to the success of the Conference and we greatly value your input.

The themes for this year’s meeting include:

- Precision Oncology
- Clinical Genomics
- Single Cell Genomics
- Regulatory Regions and Epigenetics
- Functional Genomics
- Genetic Diagnosis
- Population Scale Genomics
- Neurogenomics
- Human Evolution
- Ethics
- Genomic Therapies
- New Genomic Technologies
- Non-coding RNAs
The Human Genome Meeting is an international meeting with a long history and broad audience of researchers and clinicians applying leading edge genomic technologies to study the human genome and diagnose and treat disease.

The 2020 meeting is broadly spread across three themed days covering genome function, genome variation and clinical application. We have secured high profile international and national speakers across each of these themes.

Oral Abstract Submissions close **Friday 10 January** Midnight AWST
Poster Abstract Submissions close **Friday 7 February** Midnight AWST

Submit Your Abstract

Registration open
Secure your registration at the early bird rate before **Monday 16th December**

Click here to receive the **Sponsorship & Exhibition Prospectus**

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Registration opening 1 September
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Further information: Conference Managers Leishman Associates email: Jodi@laevents.com.au