



FUTURE HEALTH AND TRANSFORMATIVE TECHNOLOGIES

2022 AAHMS ANNUAL MEETING

WEHI, Melbourne | 13 - 14 October



Australian Academy
of Health and
Medical Sciences



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of Health and
Medical Sciences

About the Academy

The Australian Academy of Health and Medical Sciences is the impartial, authoritative, cross-sector voice of health and medical sciences in Australia. We advance health and medical research in Australia and its translation into benefits for all, by fostering leadership within our sector, providing expert advice to decision makers, and engaging patients and the public.

We are an independent, interdisciplinary body of Fellows – elected by their peers for their outstanding achievements and exceptional contributions to health and medical science in Australia. Collectively, they are a representative and independent voice, through which we engage with the community, industry and governments.

The Academy is uniquely positioned to convene cross-sector stakeholders from across Australia to address the most pressing health challenges facing society. We focus on the development of future generations of health and medical researchers, on providing independent advice to government, and on providing a forum for discussion on progress in health and medical research with an emphasis on translation of research into practice.

The Academy is registered with the Australian Charities and Not-for-profits Commission (ACNC) and is endorsed as a deductible gift recipient.

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Acknowledgement of Country Recognition

The Academy acknowledges the traditional custodians of the land on which our offices stand and on which we hold our meetings and events across the country. Aboriginal and Torres Strait Islander peoples were the nation's first scientists, and they remain the spiritual and cultural custodians of their land. We pay our respects to elders past and present.

Welcome

We are delighted to welcome you to the 2022 Annual Meeting for the Australian Academy of Health and Medical Sciences. Always a highlight on the Academy's calendar, the annual meeting includes our gala dinner, the announcement of the Academy's New Fellows, celebration of our prestigious honorific award winners, and a diverse scientific program. Topics span the breadth of health and medical science, addressing some of Australia and the world's most pressing health challenges.

The Walter and Eliza Hall Institute of Medical Research will play host to our program of inspirational and esteemed speakers, exploring our 2022 theme, 'Future health and transformative technologies'. This year's program will see a wide range of speakers who bring expertise and unique voices to the health and medical landscape and they have generously given their time to share their cutting edge research and discuss critically important health issues.

The Australian Academy of Health and Medical Sciences was established in 2014 to provide an impartial and authoritative voice for health, informed by the highest quality evidence and expert advice from the best and brightest in health and medical research.

We are most grateful to our generous sponsors for helping to facilitate this event.

We encourage you to join the twitter conversation by tagging the @AAHMS_Health handle and using the #AAHMS2022 hashtag.

DAY 1: Thursday 13 October 2022

8.30 am	Registration
9.10 am	Welcome to country
9.20 am	Welcome Professor Flavia Cicuttini AM FAHMS, Chair, VIC/TAS State Branch Professor Ingrid Scheffer AO FRS FAA PresAHMS, President, AAHMS
9.30 am	Future health systems Chair: Professor Flavia Cicuttini AM FAHMS
9.30 am	Keynote address Professor Jeffrey Braithwaite FAHMS, Foundation Director, Australian Institute of Health Innovation, Macquarie University
10.10 am	Panel discussion: Professor Russell Gruen FAHMS, Dean, College of Health and Medicine, The Australian National University Professor Anne Kavanagh FASSA, Professor of Disability and Health, University of Melbourne Associate Professor Jo-Anne Manski-Nankervis, Associate Professor in General Practice, University of Melbourne Professor James Ward, Director, University of Queensland Poche Centre
11.00am	Morning tea
11.30 am	Future health systems - harnessing research for better health Chair: Professor Christina Mitchell AO FAHMS
11.30 am	Brief presentation of the project conclusions and recommendations Professor Christina Mitchell AO FAHMS, Dean, Faculty of Medicine, Nursing and Health Sciences, Monash University and Chair AAHMS policy project on harnessing research for better health
11.45 am	Panel discussion: Chair: Professor Christina Mitchell AO FAHMS Professor Sandra Eades AO FASSA FAHMS, Associate Dean Indigenous, Rowden-White Chair, The University of Melbourne Professor Caroline Homer AO FAHMS, (working group member) Co-Program Director, Maternal and Child Health, Burnet Institute Professor Euan Wallace AM FAHMS, Secretary, Victoria Department of Health Professor Steve Webb FAHMS, Group Director of Research, St John of God Healthcare; Professor of Critical Care Research, Monash University

12.30 pm	Lunch
1.30 pm	<p>Big ideas to address health inequalities Chair: Professor James Beeson FAHMS</p>
	<p>Short 'pitches' for big ideas to address health inequalities in Australia, followed by panel discussion Professor Fran Baum AO FASSA FAHMS, NHMRC Investigator; Program Director, Stretton Health Equity, The University of Adelaide Professor Jane Fisher AO, Head, Division of Social Sciences, Monash University Associate Professor Veronica Matthews, Senior Research Fellow, The University Centre for Rural Health, University of Sydney Associate Professor Peter Azzopardi, Adolescent Health Group Lead, Burnet Institute</p>
2.40 pm	<p>New Fellows' presentations session 1 Chair: Professor Stephen O'Leary FAHMS</p>
	<p>Short talks from a selection of the new 2022 AAHMS Fellows Professor Shanthakumar Rajaratnam, Academic Head, School of Psychological Sciences; Deputy Director, Turner Institute for Brain and Mental Health, Monash University Professor Dominic Dwyer, Director, Institute of Clinical Pathology and Medical Research (ICPMR); Director of Public Health Pathology, NSW Health Pathology, Westmead Hospital Professor Emma Kowel, Professor of Anthropology, Deakin University Professor Laura MacKay, Professor and Laboratory Head, The Doherty Institute</p>
3.40 pm	Afternoon tea
4.10 pm	AAHMS Annual General Meeting
	For AAHMS Fellows and Associate Members Including updates from AAHMS Mentorship and Policy Advice Committees
5.30 pm	Close
6.30 pm – 10.30 pm	<p>Gala dinner Melbourne Museum</p>
	<p>Fellows, Associate Members and invited guests <i>Presentation of AAHMS New Fellows, CSL Centenary Fellowships and AAHMS Honorary Awards</i></p>

DAY 2: Friday 14 October 2022

9.00 am	Arrivals and late registrations
9.15 am	Welcome Professor Flavia Cicuttini AM FAHMS, Chair, VIC/TAS State Branch Professor Steve Wesselingh PresAHMS, President AAHMS
9.20 am	Communicating health in the new media landscape Chair: Professor Susan Davis AO FAHMS
9.20 am	Keynote address Professor Claire Wardle, Professor, School of Public Health, Brown University; Co-founder and Executive Chair, First Draft
10.00 am	Panel discussion: Professor Claire Wardle, Professor, School of Public Health, Brown University; Co-founder and Executive Chair, First Draft Ms Ariel Bogle, Journalist, ABC Dr Sandro Demaio, CEO, Victorian Health Promotion Foundation (VicHealth) Professor Kirsten McCaffery FAHMS, NHMRC Principal Research Fellow, University of Sydney
10.45 am	Morning tea
11.15 am	New Fellows' presentations session 2 Chair: Professor Stephen Kent FAHMS Short talks from a selection of the new 2022 AAHMS Fellows Professor Sharon Friel, Professor of Health Equity, Australian National University Professor Ian Freckelton, Professor of Law, The University of Melbourne Professor Susan Fletcher, Chief Scientific Officer, PYC Therapeutics Ltd Professor Denise Doolan, Professorial Research Fellow of Infectious Diseases Immunology, James Cook University





12.15 pm	Lunch
1.00 pm	Transformative technologies in health Chair: Professor Gail Risbridger FAHMS Professor Dietmar Hutmacher FAHMS, Professor and Chair of Regenerative Medicine, Institute of Health and Biomedical Innovation, Queensland University of Technology Professor Ralph Maddison, Professor in Physical Activity and Disease Prevention, Deakin University Professor Svetha Venkatesh, Co-Director, A212, Alfred Deakin Professor, Deakin University Professor David Winkler, Professor, Monash University
2.00 pm	Developing transformative health technologies in Australia - cultivating innovation and entrepreneurship Chair: Prof Andrew Wilks FTSE FAHMS, Executive Chairman at SYNthesis med chem, CEO at SYNthesis Research, CEO at Catalyst Tx
	Panel discussion: Speakers to be announced
2.50 pm	Closing remarks Professor Flavia Cicuttini AM FAHMS, Chair, VIC/TAS State Branch Professor Steve Wesselingh PresAHMS, President AAHMS
3.00 PM	Meeting close





Professor Jeffrey Braithwaite FAHMS

BA, DipLR, MBA, MIR (Hons), PhD, FIML, FCHSM, FFPHRCP (UK), FAcSS (UK), Hon FRACMA, FAAHMS

Professor Jeffrey Braithwaite is a leading health services and systems researcher with an international reputation for his work investigating and contributing to systems improvement. He has expertise in the culture and structure of acute settings, leadership, management and change in health sector organisations, quality and safety in healthcare, health sector reform in an international context and the restructuring of health services. He has professorial appointments at six universities, is President of the International Society for Quality in Health Care (ISQua) and an expert and advisor to the WHO, the OECD and research groups around the world. He currently teaches in postgraduate medical programs with Harvard Medical School and has research projects with, amongst others, researchers at Oxford University, UK; University of Stavanger, Norway; and São Paulo, Brazil.

Theories and ideas Professor Braithwaite has helped shape and provided research findings for include multi-method, triangulated approaches to research, the boundary-less hospital, clinician-managers as key players in reform initiatives, diversity in clinical professional groups, inter-professional learning and culture change and the future of health care.

His research examines the changing nature of health systems, attracting funding of more than AUD \$179 million. He has led, with international colleagues, 14 books on resilient health care and international health reform.

Professor Braithwaite has contributed over 690 publications and presented at international and national conferences. His research appears in journals such as *The BMJ*, *JAMA*, *The Lancet*, *Social Science & Medicine*, *BMJ Quality & Safety*, and the *International Journal for Quality in Health Care*.



Professor Russell Gruen FAHMS

Professor Russell Gruen is a surgeon-scientist and Dean of the College of Health and Medicine at the Australian National University.

After graduating from University of Melbourne in 1992, trained in general surgery, trauma and surgical critical care, obtained a PhD on access to health services for people in remote Aboriginal communities, a Harkness Fellowship in Health Policy, and postdoctoral qualifications in medical ethics and business management at Harvard. Between 2006 to 2015 he was a trauma surgeon at The Alfred and Royal Melbourne Hospitals, Professor of Surgery and Public Health and Monash University and Director of the National Trauma Research Institute, during which he played key roles in establishing the national trauma registry and an Australian Trauma Quality Improvement Program, the Australia-India Trauma Systems Collaboration, a TAC Centre of Excellence in Traumatic Brain Injury, and the WHO Global Alliance for Care of the Injured.

From 2015-2018 he was Director of the Institute for Health Technologies at Nanyang Technological University, Singapore, and Vice-Dean, Research, in the new Lee Kong Chian School of Medicine, where he fostered collaboration between clinicians and engineers, built innovation capacity, and contributed to establishing a Skin Research Institute.

Professor Gruen has over 300 publications, including a history of the Victorian State Trauma System, and was a Lancet Commissioner in both Traumatic Brain Injury, and Global Surgery in which he led the development of indicators now used by WHO and the UN. He is lead investigator of the PATCH-Trauma international prehospital clinical trial of tranexamic acid after severe injury. As an editor in the Cochrane Collaboration, he co-created the concept of 'living' systematic reviews and co-founded a successful company that produces Covidence, a software tool.



Professor Anne Kavanagh FASSA

Head of the Disability and Health Unit, Melbourne School of Population and Global Health, University of Melbourne and Lead Investigator on the Centre of Research Excellence in Disability and Health.

Professor Kavanagh is an internationally renowned scholar in the field of health inequalities with specific expertise in disability and gender. Professor Kavanagh has received nearly 48 million dollars in research funding and has published over 200 peer reviewed papers. She leads a research team who use quantitative and qualitative methods to identify policy solutions that turn around the social and economic disadvantage people with disability experience. She works with people with disability as researchers and advocates as well as governments and services. Her work is enriched by her lived experience as someone with chronic health problems and as a parent of a young man with a disability.



Associate Professor Jo-Anne Manski-Nankervis

Associate Professor Manski-Nankervis is an academic general practitioner (GP) at the Department of General Practice, Melbourne Medical School. She leads the Data driven quality improvement theme, which conducts innovative research into the development and implementation of technology to inform decision making in general-practice, and the use of data to describe and improve general-practice activity, with a focus on chronic disease management and antimicrobial stewardship.

Associate Professor Manski-Nankervis also leads the Department of General Practice Data for Decisions program, incorporating the Patron database and development of tools that integrate with the electronic medical record to assist in evidence-based clinical decision making. This includes the Future Health Today program (a collaboration between the University of Melbourne and Western Health), a new technology platform co-designed with general practice for identification and management of chronic disease in general practice. She also leads TorchRecruit, a digital platform to facilitate clinical trials recruitment in general practice.

Associate Professor Manski-Nankervis has over 80 peer-reviewed journal publications and has contributed to three national guidelines. Over the last five years she has been awarded more than \$15m in grants, tenders, and contracts. She is an active member of the RACGP National Faculty of Specific Interests – Diabetes Network, a Mid-Career Researcher representative on the Melbourne Medical School Research Committee and Chair of the RACGP Expert Committee – Research. Her other roles include member of the Pharmaceutical Benefits Scheme Advisory Committee, Primary Care Clinical Academic Informatics Director at the Centre for Digital Transformation of Health at the University of Melbourne and Director of the MACH Track, an innovative program to support clinician researchers undertaking PhDs.



Professor James Ward

Professor James Ward is a Pitjantjatjara and Nukunu man, an infectious diseases epidemiologist and a national leader in Aboriginal and Torres Strait Islander research, with over 25 years of experience in Aboriginal public health policy and research. In his current role as Director of the UQ Poche Centre for Indigenous Health he leads research aimed at impacting health and wellbeing outcomes for First Nations peoples, including a program of research to reduce incidence and prevalence of infectious diseases in Indigenous communities; a program of urban Indigenous health research and a global Indigenous health research program. Professor Ward's involvement in the COVID-19 pandemic has been integral to Australia's efforts, including as a member of the Communicable Diseases Network of Australia (CDNA), the CDNA COVID-19 Working Group, the Aboriginal and Torres Strait Islander Advisory Group on COVID-19 and the Australian Technical Advisory Group on Immunisation COVID-19 Vaccine Prioritisation Group.



Professor Christina Mitchell AO FAHMS

Professor Christina Mitchell trained as a physician scientist specialising in clinical haematology. She graduated with a Fellowship from the Royal Australian College of Physicians and also a Fellowship in Pathology. She obtained a PhD from Monash University and her post-doctoral studies were undertaken in the field of intracellular signalling at Washington University Medical School, St Louis, USA. In 1991 Professor Mitchell became an independent investigator at the Department of Medicine, Box Hill Hospital. In 1999 she was appointed Professor and Head of the Department of Biochemistry and Molecular Biology, Monash University, while also conducting research on the newly emerging family of enzymes, inositol polyphosphate 5-phosphatases, negative regulators of PI3-kinase signalling. In 2006 Professor Mitchell became Head of the School of Biomedical Sciences at Monash University, which is the largest School within the Faculty of Medicine. In 2011 she became the Dean of Medicine at Monash University. She currently holds a position of Academic Vice-President and Dean, Faculty of Medicine, Nursing and Health Sciences at Monash University.

The major research direction of Professor Mitchell's group is to characterise the metabolic pathways that regulate phosphoinositide signalling in human cancer. Her group was among the first to purify and clone the 5-phosphatases and to delineate the substrates for these important enzymes in cancer. More recently her group has investigated the functional role of inositol polyphosphate 3- and 4-phosphatases in various cell systems and human disease. Professor Mitchell has published her work many prestigious scientific journals.



Professor Sandra Eades AO FASSA FAHMS

Professor Sandra Eades is a Noongar woman with family from the Minang and Goreng mobs in south-west Western Australia who has made pioneering contributions to the epidemiology of Aboriginal child health throughout her career.

Beginning as a GP, Professor Sandra Eades went on to become the first Aboriginal medical doctor to be awarded a PhD for her studies on the causal pathways and determinants of health among Aboriginal infants in the first year of life. Through her many senior roles, most recently as Dean at Curtin University Medical School and board member of the Burnet Institute, Professor Eades brings an exceptional track record as one of Australia's most significant Indigenous health leaders.

Returning to the University of Melbourne this year, Professor Sandra Eades was appointed the Rowden White Chair and Associate Dean, Indigenous for the Faculty of Medicine, Dentistry and Health Sciences.



Professor Caroline Homer AO FAHMS

Professor Caroline Homer AO is Co-Program Director, Maternal, Child and Adolescent Health at the Burnet Institute in Melbourne and Emeritus Professor of Midwifery in the Faculty of Health at the University of Technology Sydney.

She has led research and development in maternal and newborn health for more than 20 years in Australia and across the Asia-Pacific region.

She is currently the Chair of the National Health and Medical Research Council and the Deputy Chair for the Australian Medical Research Advisory Committee for the Medical Research Future Fund. She is also the Chair of the World Health Organization's Strategic and Technical Advisory Group of Experts (STAGE) for Maternal, Newborn, Child, Adolescent Health, and Nutrition appointed by Dr Tedros, the Director General.



Professor Euan Wallace AM FAHMS

Professor Euan Wallace commenced as Secretary of the Department of Health in November 2020.

Professor Wallace is an academic obstetrician and gynaecologist by training. With more than 30 years' experience in clinical practice and medical research, and 15 years' experience in clinical leadership and governance, Professor Wallace is a strong advocate for healthcare improvement and the consumer voice.

Professor Wallace was the inaugural CEO of Safer Care Victoria, the state's lead agency for healthcare quality and safety. In July 2020, he was seconded to DHHS as Deputy Secretary, jointly responsible for case management, contact tracing and outbreak management.

Professor Wallace was also formerly the Carl Wood Professor and Head of Department of Obstetrics and Gynaecology at Monash University. His research interests are in fetal development, maternal health, stem cell biology and patient safety.



Professor Steve Webb FAHMS

MBBS, MPH, PhD, FRACP, FCICM, FAAHMS

Professor Steve Webb is an ICU specialist, a Professor of Critical Care Research at Monash University, Director of Research for St John of God Healthcare, and Chair of the Australian Clinical Trials Alliance. He has been an investigator on trials with an accumulated sample size of more than 50,000 patients, is a named investigator on more than \$125 M of competitive research funding and has published more than 200 manuscripts including multiple manuscripts in *NEJM* (9) and *JAMA* (9). He has experience with Bayesian adaptive platform trials and other innovative designs such as cluster cross-over trials. He was the global leader of the REMAP-CAP platform trial that reported the treatment effect of multiple different interventions for patients with severe COVID-19 infection. The results from REMAP-CAP were incorporated rapidly into international guidelines and implemented into clinical practice saving many tens of thousands of lives.



Professor Fran Baum AO FASSA FAHMS

Professor Fran Baum is Director of Stretton Health Equity, University of Adelaide and previously was a Matthew Flinders Distinguished Professor at Flinders University. She has just completed a term as co-Chair of the Global Steering Council of the People's Health Movement, a global network of health activist. She received an Officer of the Order of Australia (AO) for her public health service. She is a Fellow of the Academy of the Social Sciences in Australia, the Australian Academy of Health and Medical Sciences and of the Australian Health Promotion Association. She is a past National President and Life Member of the Public Health Association of Australia. She is author of *The New Public Health* (2016, OUP) and *Governing for Health* (2019 OUP). She is just starting a NHMRC Investigator Fellowship which provides \$2.24m for research entitled "Restoring the Fair Go: which policies and practices are likely to reverse growing health inequities post-COVID-19."



Professor Jane Fisher AO FASSA FAHMS

Professor Jane Fisher, an academic Clinical and Health Psychologist is Finkel Professor of Global Health in the School of Public Health and Preventive Medicine at Monash University. She is Co-Director of the Division of Planetary Health and leads the multidisciplinary Global and Women's Health group of academics, research higher degree students and professional staff who undertake research in Australia and low- and middle-income countries.

Professor Jane Fisher has longstanding interests in the social determinants of health and wellbeing across the life course and of how these can be addressed in public health approaches to health promotion. In 2017, she was awarded the Marcé Medal, by the Australasian Marcé Society for Perinatal Mental Health and in 2022 the International Marcé Society's John Cox Medal for having made an extraordinary contribution to expert knowledge in the field of perinatal mental health through research, clinical practice, teaching, and mentorship. In 2022 Professor Fisher was appointed Officer in the Order of Australia in the January 2019 Australia Day Honours for her contributions to perinatal mental health, women, and the community.



Associate Professor Veronica Matthews

Associate Professor Veronica Matthews is a Quandamooka woman from Minjerribah who lives and works on Bundjalung Country at the University Centre for Rural Health, The University of Sydney. Her work centres on improving Aboriginal and Torres Strait Islander holistic health care systems (incorporating environmental, social and cultural determinants of health) through systems-thinking and community-based participatory research. She co-leads the Centre for Research Excellence in Strengthening Systems for Indigenous Health Care Equity (CRE-STRIDE) and the Indigenous Knowledges theme within the Healthy Environment and Lives (HEAL) National Network. Both collaborations are multi-jurisdictional and transdisciplinary networks of service providers, policymakers and researchers working to embed Aboriginal and Torres Strait Islander knowledges and methodologies into inter-sectoral research to achieve health equity.



Associate Professor Peter Azzopardi

Associate Professor Peter Azzopardi MEd FRACP PhD leads a program of research around global adolescent health, with a strong focus on health equity. He was a contributor to the Lancet Commission on Adolescent health and wellbeing, and has consulted on adolescent health to governments in Australia and the region, as well as DFAT, UNICEF, UNFPA and WHO.

A large focus of his work is the analysis of big data to identify priority health issues for adolescents at a global, regional, national and sub-national level. He co-chairs WHO's Global Action for Measurement in Adolescent Health.

Associate Professor Azzopardi also leads a number of projects that consider how best to respond to adolescent health needs- ranging from more inclusive policy, opportunities within schools, to realising opportunities for adolescent health gain in the health system.

Further to his role at Burnet, Associate Professor Azzopardi is a clinical research fellow at the Wardliparingga Aboriginal Research Unit, South Australian Health and Medical Research Institute and a team leader in the Population Health theme, Murdoch Children's Research Institute.



Professor Claire Wardle

Claire Wardle is a Professor of the and co-founder and director of the Information Futures Lab at Brown University School of Public Health. She is considered a leader in the field of misinformation, verification and user generated content, co-authoring the foundational report, *Information Disorder: An interdisciplinary Framework for Research and Policy* for the Council of Europe. In 2015, Claire co-founded the non-profit First Draft, a pioneer in innovation, research and practice in the field of misinformation. Over the past decade she has developed an organization-wide training program for the BBC on eyewitness media, verification and misinformation, led social media policy at UNHCR, been a Fellow at the Shorenstein Center for Media, Politics and Public Policy at Harvard's Kennedy School, and been the Research Director at the Tow Center for Digital Journalism at Columbia University's Graduate School of Journalism. She holds a Ph.D. in Communication from the University of Pennsylvania.



Ms Ariel Bogle

Ariel Bogle is a technology reporter with the ABC, as well as a researcher with a focus on online culture and extremism. She has published research on far-right fundraising and state-linked disinformation and won various awards for her work, including for a 2020 Radio National series on online health misinformation. Her reporting has been published in *The New York Times*, *The Guardian*, *The Atlantic* and *Australian Financial Review*, among other places.



Dr Sandro Demaio

Dr Sandro Demaio is a medical doctor and globally-renowned public health expert and advocate. Having held the role of Medical Officer for non-communicable conditions and nutrition with the Department of Nutrition for Health and Development at the World Health Organization, Dr Demaio was previously the CEO of the EAT Foundation, the science-based, global platform for food systems transformation. He has published 30 scientific papers and more than 90 articles and the author of the *Doctor's Diet*, a cookbook based on science and inspired by a love of good food. Dr Demaio also co-hosts the ABC television show *Ask the Doctor* – an innovative and exploratory factual medical series broadcasting across Australia and around the world. Dr Demaio originally trained and worked as a medical doctor at The Alfred Hospital in Melbourne. He holds a Masters degree in public health, a PhD in non-communicable diseases and has held fellowships at both Harvard Medical School and Johns Hopkins School of Public Health.



Professor Kirsten McCaffery FAHMS

BSc Hons Psych, PhD Psych, FAHMS

Professor Kirsten McCaffery is an NHMRC Principal Research Fellow, Sydney School of Public Health, the University of Sydney. She has a national and international reputation in shared decision making, health literacy and the assessment of psychosocial outcomes, and has had four successive NHMRC fellowships. She is Director of Policy and Prevention at the School of Public Health and Director of the Sydney Health Literacy Lab, a group of 28 researchers and students, at the University of Sydney. She is co-founder of Wisser Healthcare – a research collaboration of over 100 researchers across four Australian institutions (Universities of Sydney, Bond, Wollongong and Monash) and is Node Leader of the Charles Perkins Centre, Health Literacy Node. Her research focuses on health communication and understanding psychosocial outcomes among socially disadvantaged populations including culturally and linguistically diverse groups and people with low health literacy. Since April 2020 her work has focused on COVID-19 health communication drawing attention to the failures to address the needs of multicultural and low health literacy populations in COVID communication and health services. Her work uses quantitative methods such as randomised trials and experimental studies as well as qualitative research. Professor McCaffery has received over AU\$53 million in competitive research funding since 2000 and has over 320 publications, including papers published in the highest ranked general medical journals including *Lancet*, *The BMJ*, *JAMA* and *MJA*.



Distinguished Professor Dietmar Hutmacher FAHMS

Distinguished Professor Dietmar W Hutmacher is a biomedical engineer, an educator, an inventor, and a creator of new intellectual property opportunities. He is committed to fostering transformative research and pedagogical innovation as well as programs that create an entrepreneurial mindset amongst faculty and students. He co-directs with Peter Fratzl from the Max Planck Institute of Colloids and Interfaces, Potsdam the Max Planck Queensland Centre (MPQC) for the Materials Science of Extracellular Matrices. This is the first Max Planck Centre awarded in Australia. Distinguished Professor Hutmacher is an internationally recognized leader in the fields of biomaterials, tissue engineering and regenerative medicine with expertise in commercialization. He has translated a bone tissue engineering concept from the laboratory through to clinical application involving *in vitro* experiments, preclinical studies, and ultimately clinical trials. His research efforts resulted in traditional scientific/academic outputs as well as pivotal commercialisation outcomes. His pre-eminent international standing and impact on the field are illustrated by being a highly cited researcher (google scholar more than >68,000 citations, h-index of 123).



Professor Ralph Maddison

Professor Ralph Maddison is an internationally recognised researcher with research interests in telemedicine, comprising digital and mobile health. His work has focused on the design, development and evaluation of digital interventions. His program of research has shown mobile health, and digital behaviour change interventions are effective and cost-effective modalities for improving lifestyle risk factors, including in people with cardiovascular disease (CVD) and diabetes. He has published more than 200 peer reviewed publications. Professor Maddison's digital programs have been licensed for delivery in primary care and have been adapted for delivery to support the management of CVD. He currently leads two NHMRC-funded projects in the areas of smartphone-based telehealth, and in the development of a smart system to support heart failure management. He is also a CI on the Connected Healthcare CRE in digital health.



Professor Svetha Venkatesh

Professor Svetha Venkatesh is an ARC Australian Laureate Fellow, Alfred Deakin Professor and a co-Director of Applied Artificial Intelligence Institute (A₂I₂) at Deakin University. She was elected a Fellow of the International Association of Pattern Recognition in 2004 for contributions to formulation and extraction of semantics in multimedia data, a Fellow of the Australian Academy of Technological Sciences and Engineering in 2006, and a Fellow of the Australian Academy of Science in 2021 for ground-breaking research and contributions that have had clear impact. In 2017, Professor Venkatesh was appointed an Australian Laureate Fellow, the highest individual award the Australian Research Council can bestow.

Professor Venkatesh and her team have tackled a wide range of problems of societal significance, including the critical areas of autism, security and aged care. The outcomes have impacted the community and evolved into publications, patents, tools and spin-off companies. This includes 668 publications, three full patents, one start-up company (icetana) and two significant products (TOBY Playpad, Virtual Observer).

Professor Venkatesh has tackled complex pattern recognition tasks by drawing inspiration and models from widely diverse disciplines, integrating them into rigorous computational models and innovative algorithms. Her main contributions have been in the development of theoretical frameworks and novel applications for analysing large scale, multimedia data.

This includes development of several Bayesian parametric and non-parametric models, solving fundamental problems in processing multiple channel, multi-modal temporal and spatial data.



Professor David Winkler

BSc(HI), BAppSci, PhD, FRACI, FAFMC

Professor David Winkler has an unusually broad formal training in chemistry, physics, chemical engineering and radioastronomy. He is a Professor of Biochemistry & Chemistry at La Trobe Institute for Molecular Science at La Trobe University, an adjunct Professor of Medicinal Chemistry at the Monash Institute for Pharmaceutical Sciences, and a visiting Professor in Pharmacy at the University of Nottingham. He previously spent over 30 years at CSIRO researching the application of computational chemistry, AI, and machine learning methods to the design of drugs, agrochemicals, nanomaterials and biomaterials. He is ranked 227th out of 81,000 medicinal chemists, and 999th out of 520,000 chemists worldwide (Mendeley 2019). He has authored over 250 refereed journal articles and book chapters, has an H index of 53 (GS), and is an inventor on 25 filed patents. He has won several prestigious awards including the CSIRO Medal for Business Excellence, RACI's Adrien Albert award for contributions to medicinal chemistry, the ACS Herman Skolnik award for excellence in cheminformatics, and a Royal Academy of Engineering (UK) Distinguished Fellowship (bioengineering). He is past President of the Federation of Asian Chemical Societies (FACS) and of the Asian Federation for Medicinal Chemistry (AFMC), and past Chairman and Director of the RACI Board.



Professor Andrew Wilks FTSE FAHMS

Andrew Wilks is a serial entrepreneur with 25 years on the “dark side”, following a highly successful academic career as a cancer researcher at the Ludwig Institute for Cancer Research. He went on to found Cytopia (1997), one of Australia’s earliest ASX-listed drug discovery companies. Since then he has founded eleven companies in the drug discovery arena. He was co-founder of SYNthesis med chem, a global CRO with laboratories in China, and SYNthesis Research, a “venture-discovery” company that funds and manages drug discovery collaborations generated from academia.

Andrew holds an Adjunct Professorship at Monash University, and is an Honorary Enterprise Professor at the University of Melbourne. He is an elected Fellow of the Australian Academy of Technology and Engineering (ATSE) and of the Australian Academy of Health and Medical Sciences (AAHMS). He has received a number of awards including the JNJ Ausbiotech Industry Leadership Award, the ATSE Clunies Ross Medal, and the Lackmann Award for Translational Research.



Dr Anne-Laure Puaux

Dr Anne-Laure Puaux currently leads the Biotechnology & Commercialisation team at WEHI (the Walter and Eliza Hall Institute for Medical Research) in Melbourne. This team leads business development projects which create value for WEHI, its business partners and society by improving public health and deliver sustained economic benefits.

Dr Puaux is an experienced business development leader in the life sciences sector, having worked in Europe, the US, Asia and Australia. Anne-Laure previously worked as a research scientist in academic institutions in France (Institut Pasteur, Inserm) and Singapore (A*STAR). She was also a staff scientist as part of Flamel Technologies in France (now known as Avadel Pharmaceuticals) and within the global Vaccines business unit at GlaxoSmithKline, headquartered in Belgium. During her time at GSK, she transitioned from Research and Development to Business Development and Licensing. Overall, she has established a track record in successful technology transfer and collaborative projects with emphasis on early-stage assets (discovery / preclinical to phase I/II). She has been leading new opportunities evaluation, business cases, due diligences, and collaborative research projects, as well as designing, negotiating and closing deals between academic research institutes, biotech companies and large multinational companies to facilitate innovation.

Dr Puaux completed her PhD at Institut Pasteur in Paris, France, and gained her Global Executive MBA from IE Business School in Madrid, Spain.



Bronwyn Kingwell

Professor Bronwyn Kingwell is the Senior Director, Research Therapeutic Area Lead in Cardiovascular and Metabolic Diseases at CSL Limited. She is also a graduate and fellow of the Australian Institute of Company Directors. Professor Kingwell's fundamental and clinical research in arterial biomechanics has elucidated genetic, hormonal and environmental (exercise, diet) mechanisms contributing to large artery stiffening as well as opportunities for therapeutic modulation. With her collaborators she has contributed to our understanding of coronary plaque rupture, one main mechanism responsible for myocardial infarction, and has identified lipidomic biomarkers which through a licensing agreement with Zora Biosciences are currently available as a clinical test at the Mayo clinic. She has pioneered the transition of detailed cellular and molecular studies of high-density lipoprotein (HDL) in laboratory models, in particular with regard to glucose metabolism, to a human context. This work has opened new avenues in HDL therapeutics. Her contributions have also extended to studies influencing national and international physical activity guidelines. Professor Kingwell is a current member of the NMHRC Research Committee, the National Committee for Medicine and Public Health (Australian Academy of Science) and the Victorian Government SMaRT panel.

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The logo for CSL, consisting of the letters 'CSL' in a bold, red, sans-serif font.

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We bring together the brightest minds to solve the biggest health issues for children. We research health conditions including diabetes, allergies, asthma, premature birth, and mental health problems, which are on the rise in our children, and conditions including cancer and genetic disorders that remain unsolved.

We study the health of communities to understand what factors influence child health at the population level and research common infections and immune conditions both locally and globally.

Our purpose is to give all children the opportunity to live a healthy and fulfilled life.



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WEHI is where the world's brightest minds collaborate and innovate to make life-changing scientific discoveries that help people live healthier for longer. Our medical researchers have been serving the community for more than 100 years, making transformative discoveries in cancers, infectious and immune diseases, developmental disorders and healthy ageing.

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The Academy is most grateful for the work of the steering committee for this event:

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