

BIOSYMPOSIUM

CROSSING THE RUBICON IN AI DECISION-MAKING: A Clinical Dilemma

MONDAY 18 MARCH 2024

8:45 am - 5:30 pm AEDT | followed by networking
Format: Hybrid - in person and online

Monash College, Level 2 Auditorium,
750 Collins Street, Docklands, VIC 3008

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WELCOME

Welcome to our full-day BioSymposium – ***Crossing the Rubicon in AI Decision-Making: A Clinical Dilemma.***

Artificial Intelligence (AI) is rapidly transforming our lives personally and professionally, offering new possibilities in healthcare. It represents a paradigm shift from traditional clinical practice where health practitioners will have AI tools to diagnose and treat medical conditions. Drugs and devices will also be developed faster, shortening the time to market and clinic.

While there are some early adopters in this space, the rest of us are playing catch-up, wondering where this 'brave new world' will take us and how to navigate this evolving landscape.

Today, we will separate fact from fiction.

Hear how multidisciplinary teams are applying machine learning to medical problems and translating research into the clinic. And how AI is being harnessed in drug and medical device development.

We will also discuss legal and ethical considerations. What guidelines and governance structures are needed to support this healthcare innovation? How do we minimise biases in datasets? Who is responsible if things go wrong – doctors, drug or device developers or IP owners? And what do patients want?

We will also explore the future of AI-driven clinical decision-making: trends, advancements and reimbursement models.

This event is co-developed with BioMelbourne Network members and other key industry stakeholders who provide valuable insights to support the strengthening and growth of the industry. Special thanks to our members and sponsors who make events such as this possible, and our guest speakers who generously share their time, knowledge and expertise.

We trust that you will gain valuable insights at today's BioSymposium that will assist you and your organisation.

BioMelbourne Network

PROGRAM

ACKNOWLEDGMENT OF COUNTRY

BioMelbourne Network respectfully acknowledges the Traditional Custodians of the unceded lands and waters of Victoria, the Bunurong, Eastern Maar, Gunaikurnai, Wadawurrung and Wurundjeri Woi-wurrung peoples, on which BioMelbourne Network lives and works. We pay respect to their Elders past and present. We acknowledge the significant contribution that they and other Aboriginal and Torres Strait Islander people have made and continue to make to the research and knowledge systems that inform our community and our sector.

WELCOME AND OPENING SPEECH | 8:45 am

David Herd Chair, BioMelbourne Network

Connie Crisafi Executive Director, Innovation and Technology Branch, Department of Jobs, Skills, Industry and Regions, State Government of Victoria

PLENARY | 9:00 am



Professor Anton van den Hengel
Director, Centre for Augmented Reasoning, Australian Institute for Machine Learning

SESSION 1 | 9:20 am

APPLYING AI IN CLINICAL DECISION-MAKING

The opening session will address how AI and AI tools are transforming healthcare. Discover why this technology is being used and the roles of medical and healthcare professionals and patients in clinical decision-making. Our speakers will also discuss ethical principles and governance frameworks informing AI integration in health service delivery.

Followed by morning break

Session 1 Chair



**Associate Professor
Tam Nguyen**

Deputy Director of Research,
St Vincent's Hospital Melbourne

Speakers



**Professor
Anton van den Hengel**

Director, Centre for
Augmented Reasoning,
Australian Institute for
Machine Learning



**Associate Professor
Johan Verjans**

Deputy Director,
Australian Institute for
Machine Learning



Dr Gihan de Mel

General Practitioner,
Next Practice



**Associate Professor
Hamed Akhlaghi**

Head of Emergency
Medicine Research and
Emergency Consultant,
St Vincent's Hospital
Melbourne

SESSION 2 | 11:15 am

LEGAL AND ETHICAL CONSIDERATIONS

This session will explore legal and ethical issues and risks associated with AI-assisted decision-making. Learn about distribution of liability, responsibility and assessing if level of care is commensurate with a 'reasonable physician' or 'reasonable robot'. Discover how our speakers are responding to advances in AI technology in areas spanning patent law, digital healthcare and therapeutic goods evaluation, assessment and monitoring. And how to reduce bias in AI algorithms.

Followed by lunch break

Session 2 Chair



Dr Ken Seidenman

Senior Associate | Patent Attorney
(Biotechnology), FB Rice

Speakers



Beata Khaidurova

Partner, FB Rice



Professor Robyn Langham

Chief Medical Adviser,
Therapeutic Goods Administration;
Director, Australian Medical Council;
Chair, Human Research and Ethics
Committee, The Royal Children's
Hospital



Associate Professor Kate Burbury

Executive Director,
Digital Healthcare Innovation,
Peter MacCallum Cancer Centre



Dr Melissa McCradden

AI Director, Women's and
Children's Health Network;
The Hospital Research Foundation
Group Clinical Research Fellow,
Australian Institute for
Machine Learning

SESSION 3 | 1:30 pm

AI ADOPTION NOW

This session will showcase how AI is being used in biotechnology and clinical practice. Discover how our speakers have designed, implemented and validated AI innovations and virtual care in research and healthcare settings, and the lessons that they have learned.

Followed by afternoon break

Session 3 Chair



Dr Helen Frazer

Clinical Director,
St Vincent's Hospital
Melbourne

Speakers



Sinéad Fitzgerald

Senior Partner
Development Manager,
Microsoft



Professor Wendy Chapman

Director, Centre for Digital
Transformation of Health,
The University of Melbourne



**Associate Professor
Johan Verjans**

Deputy Director,
Australian Institute for
Machine Learning



Luke Restorick

Global Healthcare Executive,
Corporate Advisor and Advocate
for Breakthrough Innovation

SESSION 4 | 3:45 pm

THE FUTURE IMPACT ON PATIENT CARE

The final session will address opportunities in population health and digital health product development and commercialisation. Our speakers will also discuss AI trends and integration, balancing risk and security with innovation, and AI reimbursement models.

Followed by networking

Session 4 Chair



Sinéad Fitzgerald

Senior Partner
Development Manager,
Microsoft

Speakers



**Associate Professor
Tam Nguyen**

Deputy Director of Research,
St Vincent's Hospital
Melbourne



Professor Brett Sutton AO

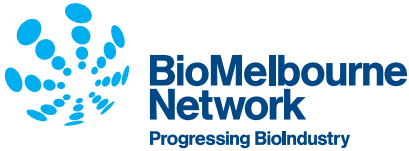
Director of Health and
Biosecurity, CSIRO



Dr Emily Kirkpatrick

Executive Medical Director,
Calvary Amplar Health
Joint Venture

BioMelbourne Network



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About Us

BioMelbourne Network is the peak body in the Victorian healthtech industry, driving engagement and growth through local and international networks. Since 2001, we have been actively fostering and growing an innovative, globally competitive sector and transforming our Network as well as the broader Victorian ecosystem.

Our members are diverse and experts in their respective fields, from early-career researchers to company executives

and experienced directors, and start-ups through to large multinational corporations. We represent universities, researchers, manufacturers, government departments and the services sector, which includes commercialisation, product design and development, intellectual property, investment and legal sectors.

We are committed to maximising our value to the ecosystem through the delivery of our three-year strategic plan.

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Web www.djsir.vic.gov.au/health-tech
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About Us

Victoria is home to world-class health technology companies and is a preferred location for many global leaders including CSL, Moderna, BioNTech, Illumina, Telix Pharmaceuticals and Pfizer. International companies partner with Victoria for its outstanding strengths in commercial product development, its cost-competitive environment for basic discovery, clinical and commercial research, and its strong collaborative networks and supportive government.

Victoria is a global leader in health technologies research and manufacturing, delivering a sector value add of \$5.5 billion in 2022. Victoria's research and development capabilities include: infectious disease and diagnostics; digital health and patient monitoring; cancer; cell therapies and regenerative medicine; neuroscience; paediatrics.

Victoria's health technologies ecosystem is supported by its skilled and multicultural talent pool, favourable regulatory and research and development environment, and world leading infrastructure – all backed by the Victorian Government's long-term investment into the sector.

The Victorian Government has recognised health technologies as a priority industry sector for more than two decades and is committed to working with business to grow the research and innovation ecosystem. The Victorian Government has a global network of 23 international business offices, actively working with companies worldwide to assist them to partner with Victoria to develop novel health technologies and services.

We look forward to connecting with you.

For more information on how the Victorian Government can support your business, please visit our website.

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CSIRO



Web www.csiro.au

Phone 1300 363 400

About Us

CSIRO's vision is to create a better future for Australia by solving the greatest challenges through innovative science and technology.

We work with biomedical companies to deliver new medical treatments and technologies that benefit millions of people in Australia and overseas, helping them live longer, healthier and more productive lives.

CSIRO is one of the largest multidisciplinary science organisations in the world with over 6000 staff working in state-of-the-art facilities across Australia. We support local businesses and the broader research community across preclinical, biomedical manufacturing, devices and sensors, diagnostics, eHealth and clinical trials.

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About Us

Founded more than 70 years ago, FB Rice has become Australia's most trusted intellectual property firm with offices across the country and a well-established presence in New Zealand and South-East Asia.

Today, it combines world-leading expertise across biotechnology, chemistry, computer and electrical sciences, engineering and medical devices with integrity and a determination to help clients achieve their goals.

Drawing on deep industry and practice experience, FB Rice's dedicated Biotechnology Group supports clients in key areas including but not limited to adoptive cell therapy, immunology, gene therapy, drug development, biologics and biosimilars, microbiology, stem cell therapies, genetics and genomics, bioinformatics, vaccines

and diagnostics, and plant biology and medical engineering.

FB Rice focuses on nurturing and growing best in class attorneys who are not only outstanding in the field of IP but also understand their clients' environment and can tailor IP advice and strategy accordingly. Their goal is always to provide an exceptional client service to assist their clients in achieving success.

This dedication to providing clients with the highest standard of service has seen FB Rice win twelve Australian Client Choice Awards, including being named Best Specialist IP Firm six years running, Best Client Experience Firm for Specialist IP since 2021, and Most Innovative Specialist IP & Related Services Firm since 2022.

FB Rice champions innovation and creates value.

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Web www.monash.edu/talent
Contact Lauren Howard
Email lauren.howard@monash.edu
Linkedin www.au.linkedin.com/company/monash-talent

About Us

Monash Talent is the centralised talent function of Monash University, providing tailored early career talent services for industry, that reduce recruitment expenses and simplify hiring.

At Monash Talent, we are committed to helping the life sciences sector build the workforce of the future. Monash Talent removes the complexity of navigating a university ecosystem, while offering a multitude of early career solutions, including temp work, part-time and full-time placements, internships, workforce upskilling and employer branding campaigns.

As Australia's biggest university, we have unrivalled access to top student and graduate talent. Our network comprises over 86,000 students nationally and globally, and more than 400,000 alumni.

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LinkedIn www.linkedin.com/company/prime-financial-group-ltd

About Us

We are a market leading Advice,
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SeerPharma Pty Ltd



Web www.seerpharma.com
Contact Biju Kishor
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About Us

SeerPharma is a team of consultants that provide advice, training, software solutions from MasterControl, and contract labour resources to pharmaceutical, medical device and life science companies in the Asia-Pacific region, on matters of Quality Assurance and GMP compliance. We have been serving our clients in the Asia-Pacific region for over 30 years from our offices in Australia and Singapore, and are also able to provide assistance in Europe through our affiliate in the UK.

Our team of consultants have extensive experience working with clients supplying or looking to enter the supply chain of a therapeutic product. We work with organisations looking to ensure that their facilities, equipment, quality systems and processes are compliant with FDA, PIC/S, TGA, WHO, ISO, ICH and other GxP regulations and standards that apply to their product(s).

Through our work we aim to "Advance Quality and GMP Best Practices in the APAC region" for the Pharmaceutical and Medical Device Industry.

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Web www.honan.com.au
Contact Daniel Reid
Email daniel.reid@honan.com.au
Phone 0400 964 740

About Us

Thanks to its innovative, customer-led approach and deep sector experience, Honan adds value to clients beyond just insurance, through comprehensive risk profile assessments and clear, easy-to-understand advice.

Founded in Melbourne, Australia in 1964, we know what it takes to achieve growth and stability. From program placement to claims management and risk consulting, we understand the bespoke challenges faced by biotech, life science and pharmaceutical companies. As you manage complex regulatory requirements and unique market conditions, we will draw on our deep knowledge of your key risks to offer solutions that support your vision.

Honan advisors bring a depth of expertise and fresh thinking to deliver a high-quality, customer-led,

value-added service that's more akin to leading consultancies than the traditional world of corporate insurance. We partner with our clients for the long-term, understanding their business and market holistically to develop creative and strategic solutions that ultimately help them grow with confidence.

On 30th November 2023, Marsh completed its acquisition of the Honan Insurance Group. Marsh is the world's leading insurance broker and risk adviser. With more than 45,000 colleagues operating in more than 130 countries, Marsh serves commercial and individual clients with data driven risk solutions and advisory services. Marsh is a business of Marsh McLennan (NYSE: MMC), the leading global professional services firm in the areas of risk, strategy, and people.

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Friday 17 May 2024



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