

Across the Healthcare Journey

HERSTON HEALTH PRECINCT SYMPOSIUM 2023

4–7 September 2023 Education Centre, RBWH

metronorth.health.qld.gov.au/events/ herston-healthcare-symposium

> Metro North Health



WELCOME

I am excited to introduce you to the program for the 2023 Herston Health Precinct Symposium.

Over four days, the program will cover digital health, advances in models of disease, advances in cardiovascular health, the growing challenge of obesity and the future of cancer care in Queensland. We will examine innovation across the whole of the healthcare journey, from the roots of ill health in childhood (keynote by James Scott) to the use of new technology to adapt and recover from illness in later life. We will also debate how our healthcare system, and its focus on hospital beds, needs to be reconfigured for the needs of the future.

As in previous years, the program will feature a daily keynote lecture, multidisciplinary and educational sessions, free abstract presentations, emerging methods and technologies and a Grand Round on the topic of infection, following a keynote lecture on the search for solutions to emerging superbugs.

The Symposium will again adopt a hybrid format so that clinicians can view sessions from their workplaces. However, I would encourage you to take advantage of the opportunities to learn network and build connections with colleagues by attending in person. For further details keep an eye on the Symposium website (https://metronorth.health.qld.gov.au/events/herston-healthcare-symposium) and look out for a link to register via Eventbrite.

See you soon!

Professor Michael O'Sullivan Director, Research and Implementation **RBWH Research Services**



Thank you to our partners

















Thank you to our presenting sponsors:

The University of Queensland Institute for Molecular Bioscience

National Centre for Neuroimmunology and Emerging Diseases, Griffith University

Due to COVID 19 social distancing requirements, in person attendance at the Symposium is limited. Anyone wishing to attend sessions will need to register via Eventbrite. Please go online to Metro North Events page and scroll to the Herston Health Precinct Symposium, or scan the QR code (back page).

Once registered via Eventbrite, Zoom links will be emailed to you for each session. In person attendance will be a 'first in, first served' basis until our maximum allowed capacity is reached.

We look forward to you joining us.

For further details, please telephone +61 7 3647 1008 or email Herston-Symposium@health.qld.gov.au

This program is subject to change without notice.

MONDAY 4 SEPTEMBER 2023

TIME	SESSION	PRESENTER
8.00AM - 8.15AM	ACKNOWLEDGEMENT OF COUNTRY AND WELCOME	Geoffrey Binge, Cultural Capability Officer, Allied Health Professions, RBWH, Metro North Health.
8.15AM - 9.45AM	DIGITAL HEALTH FOUNDATIONS: ENABLING THE TRANSFORMATION TO	Professor Jason Pole, Deputy Director, Queensland Digital Health Centre.
	LEARNING HEALTH SYSTEMS	Dr Sankalp Khanna, Principal Research Scientist, CSIRO eHealth Research Centre.
	DIGITAL HEALTH FOUNDATIONS: THE CURRENT STATE IN QUEENSLAND	Lee Woods (Early Career Researcher), Queensland Digital Health Centre, UQ.
		Rebekah Eden, UQ Business School.
	FHIR-POWERED ANALYTICS FOR CLINICAL DECISION SUPPORT	John Grimes, Australian e-Health Research Centre, CSIRO.
		Sankalp Khanna, Australian e-Health Research Centre, CSIRO.
	DIGITAL HEALTH FOUNDATIONS: DEVELOPING THE TECHNOLOGICAL	Jodie Austin (Early Career Researcher), Queensland Digital Health Centre, UQ.
	INFRASTRUCTURE TO SUPPORT ANALYTICS	Jason Ferris, Queensland Digital Health Centre, UQ, Centre for Health Services Research.
		Dominique Gorse, Queensland Digital Health Centre, UQ, Centre for Health Services Research, QLD Cyber Infrastructure Foundation.
	CLINICAL TEXT ANALYTICS WITH NLP AND LARGE LANGUAGE MODELS	Jinghui Liu, Australian e-Health Research Centre, CSIRO.
		Anthony Nguyen, Australian e-Health Research Centre, CSIRO
	DIGITAL HEALTH FOUNDATIONS: ANALYTICAL APPLICATIONS	Steffen Bollman, Queensland Digital Health Centre, UQ, School of Electrical Engineering and Computer Science, UQ.
		Anton Van Der Vegt, Queensland Digital Health Centre, UQ, Centre for Health Services Research.
	QUEENSLAND IMAGING, BIOMARKER & LIFESTYLE FLAGSHIP STUDY OF AGEING	Jurgen Fripp, Australian e-Health Research Centre, CSIRO.
9.45AM - 10.00AM	MORNING TEA	
10.00AM - 11.00AM	DEBATE: THE HEALTH SYSTEM NEEDS MORE BEDS	Chair: Professor Daniel Chambers, Executive Director of Research, Metro North Health.
		For: Professor Alison Mudge, Clinical Director Research and Education, Internal Medicine and Aged Care, RBWH
		Against: Dr Elizabeth Marsden, Clinical Director, RADAR Program, Metro North Health.
11.00AM - 12.00PM	INSTITUTE FOR MOLECULAR BIOSCIENCE KEYNOTE LECTURE: PROFESSOR MARK SCHEMBRI THE SEARCH FOR SUPERBUG SOLUTIONS	Chair: Associate Professor Krispin Hajkowicz, Senior Staff Specialist, Infectious Diseases, RBWH
12.00PM - 12.30PM	LUNCH	

MONDAY 4 SEPTEMBER 2023

Education Centre, Royal Brisbane and Women's Hospital

TIME	SESSION	PRESENTER
12.30PM - 2.30PM	GRAND ROUNDS: SOMETHING IS BUGGING ME	Organisers: Herston Infectious Diseases Institute.
		Chair: Professor Keshwar Baboolal, Executive Director, Internal Medicine Services, RBWH.
	WELCOME AND CASE INTRODUCTION	Associate Professor Krispin Hajkowicz, Senior Staff Specialist, Infectious Diseases, RBWH
	THE CONSUMER PERSPECTIVE	Cancer Care and Infectious Diseases Patient, RBWH
	THE CANCER CARE PERSPECTIVE	Dr Andrea Henden, Staff Specialist, Haematology and Bone Marrow Transplantation, RBWH
	THE INFECTIOUS DISEASES PERSPECTIVE	Associate Professor Krispin Hajkowicz, Senior Staff Specialist, Infectious Diseases, RBWH
	THE INTENSIVE CARE PHARMACIST PERSPECTIVE	Sinead Carmichael, Clinical Pharmacist, Intensive Care, RBWH
	THE MICROBIOLOGIST PERSPECTIVE	Dr Natalie Davidson, Clinical Microbiologist, Pathology Queensland
	VASCULAR ACCESS – AN IMPORTANT CONSIDERATION	Prof Claire Rickard, Conjoint Professor, Infection Prevention and Vascular Access, Herston Infectious Diseases Institute and The University of Queensland
	RESEARCH CHALLENGES, OPPORTUNITIES AND FUTURE VIEW	Prof Jason Roberts, Interim Director, Herston Infectious Diseases Institute and A/Director, UQ Centre for Clinical Research
2.30PM - 3.00PM	AFTERNOON TEA	
3.00PM - 5.00PM	RBWH GRANTS SCHEME PRESENTATIONS	Chair: Professor Michael O'Sullivan, RBWH Research and Implementation, Metro North Health.
	PARTNERSHIPS AND TRANSLATIONS	Professor Michael O'Sullivan, RBWH Research and Implementation, Metro North Health.
	TAKING THE GUESSWORK OUT OF ASSESSING ATROPHY IN SUSPECTED DEMENTIA	Professor Peter Nestor, Conjoint Professor of Neuroscience, Queensland Brain Institute, UQ.
	A NOVEL, PORTABLE, LOW-COST OXYGEN THERAPYBTO IMPROVE WOUND HEALING USING PHOTOSYNTHETIC LIGHT	Dr Jason Brown, Director Adult Burns Unit, RBWH, Metro North Health.
		Dr Melanie Oey, Molecular Biologist, Institute Molecular Bioscience UQ.
	LEVERAGING CD226 AS A NOVEL PROGNOSTIC BIOMARKER FOR EARLY-STAGE ORAL SQUAMOUS CELL CARCINOMA (OSCC) AND IDENTIFICATION OF NEW IMMUNOTHERAPY TREATMENT STRATEGIES.	A/Professor Martin Batstone, Maxillofacial Unit, RBWH, Metro North Health.
	GENERATION OF PATIENT-DERIVED MICRO-ORGANOID SPHERES FOR PRECISION MEDICINE IN ENDOMETRIOSIS	Dr Brett McKinnon, Institute for Molecular Bioscience
	CONCLUDING REMARKS	Louise Oriti, Executive Director, RBWH, Metro North Health.
5.00PM - 6.00PM	NETWORKING AND REFRESHMENTS	

TUESDAY 5 SEPTEMBER 2023

TIME	SESSION	PRESENTER
8.00AM - 9.45AM	ORGANOIDS AND OTHER ADVANCED DISEASE MODELS: A GATEWAY TO FUTURE RESEARCH?	Chair: A/Professor Lata Vadlamudi, Senior Staff Specialist, Neurology, RBWH, Metro North Health. A/Professor Jayesh Dhanani, Senior Staff Specialist, Intensive Care, RBWH, Metro North Health.
	HUMAN BRAIN ORGANOID MODELS TO STUDY GENETIC AND ACQUIRED NEUROLOGICAL DISEASES	Prof Ernst Wolvetang, Senior Group Leader Stem Cell Engineering group. The Australian Institute for Bioengineering and Nanotechnology.
	HUMAN CARDIAC ORGANOIDS FOR DRUG DISCOVERY WITH A FOCUS ON INFLAMMATION	Prof James Hudson, Senior Group Leader, QIMR Berghofer, Snow Medical Fellow, Co-Deputy Director of Infection, and Inflammation Program at QIMR Berghofer.
	IPSC-DERIVED MODELS FOR DISEASE-SPECIFIC DRUG SCREENING AND DRUG DELIVERY MODELLING IN NEURODEGENERATIVE DISEASES	Dr Lotta Oikari, Senior Research Officer, Mental Health and Neuroscience Program, QIMR Berghofer.
	GETTING TO THE HEART OF FIBROTIC SIGNALLING FOR NEW HEART FAILURE THERAPEUTICS	Dr Simon Foster, Senior Research Officer, QIMR Berghofer, Adjunct Research Fellow, Department of Pharmacology, Monash University Honorary Research Fellow, School of Biomedical Sciences, UQ.
	USING BRAIN ORGANOIDS TO ADVANCE AAV9 GENE THERAPY FOR HEREDITARY SPASTIC PARAPLEGIA 56	Dr Hannah Leeson, (Early Career Researcher), Australian Institute for Bioengineering and Nanotechnology.
	FUNCTIONAL MODELLING OF ARRHYTHMIAS WITH HUMAN CARDIAC ORGANOIDS	Mr Mark Pocock, QIMR Berghofer, School of Biomedical Sciences, Faculty of Health, QUT
9.45AM- 10.00AM	MORNING TEA	
10.15AM - 11.00AM	A PRACTICAL GUIDE TO STATISTICS IN MEDICAL RESEARCH	Professor Robert Ware, Professor of Biostatistics, Griffith University.
11.00AM - 12.00PM	NATIONAL CENTRE FOR NEUROIMMUNOLOGY AND EMERGING DISEASES KEYNOTE LECTURE: A/PROFESSOR LEIGHTON BARNDEN NOVEL MRI OBSERVATIONS OF BRAINSTEM FUNCTION IN HEALTH AND DISEASES MARKED BY FATIGUE	Chair: Dr Rodney Marsh, Consultant psychiatrist and Visiting Medical Officer, Mental Health, Metro North Health.
12.00PM - 12.30PM	LUNCH	

TUESDAY 5 SEPTEMBER 2023

Education Centre, Royal Brisbane and Women's Hospital

TIME	SESSION	PRESENTER
12.30PM - 2.30PM	TECHNOLOGY SUPPORTED REHABILITATION	Chairs: Ms Mathilde Desselle, Herston Biofabrication Institute.
		Ms Sue Laracy, Director Occupational Therapy, RBWH, Metro North Health.
	VR-CBT: THE EFFECT OF PAIN EDUCATION COMBINED WITH VIRTUAL REALITY GAMEPLAY ON PAIN, KINESIOPHOBIA AND KINEMATICS IN INDIVIDUALS WITH PERSISTENT LOW BACK PAIN.	Dr Peter Window, RBWH Physiotherapy, STARS Education and Research Alliance, Metro North Health
	VIRTUAL REALITY FOR BURNS PAIN AND UPPER LIMB REHABILITATION	Ms Andrea McKittrick (Early Career Researcher), RBWH Occupational Therapy also involving STARS, RBWH Burns Unit, Herston Biofabrication Institute, UQ, and QUT.
	ROBOT ASSISTED REHABILITATION FOR STROKE PATIENTS	Professor Nick Brown, Head of School, Clinical Sciences, QUT
	INTEGRATED SPEECH PATHOLOGY TELEHEALTH SERVICE FOR SWALLOWING REHABILITATION.	Dr Clare Burns, Advanced Speech Pathologist & Research Coordinator, RBWH, Metro North Health.
	3D PRINTING PERSONALISED WHEELCHAIR CUSHIONS	Dr David Forrestal, Herston Biofabrication Institute and in collaboration with STARS Rehabilitation Engineering.
	3D SCAN TO PRINT WORKFLOWS FOR FACIAL PROSTHETICS	Dr Danilo Carluccio (Early Career Researcher), RBWH Division of Surgery and Herston Bio fabrication Institute.
	35+ YEARS OF ROBOTICS FOR NEURO-REHABILITATION: LESSONS LEARNED AND CHALLENGES AHEAD	Dr Alejandro Melendez-Calderon, Jamieson Trauma Institute and UQ.
2.30PM - 3.00PM	AFTERNOON TEA	
3.00PM - 5.00PM	FREE ABSTRACT PRESENTATIONS (CLINICAL RESEARCH SEE SEPARATE PROGRAM)	
5.00PM - 6.00PM	NETWORKING AND REFRESHMENTS	

WEDNESDAY 6 SEPTEMBER 2023

TIME	SESSION	PRESENTER
8.00AM - 9.00AM	INDUSTRY AND RESEARCH COMMERCIALISATION	Chair: Mathilde Desselle, General Manager Herston Biofabrication Institute, MNH
	DISCUSSION AND Q&A	Mathilde Desselle, General Manager Herston Biofabrication Institute, MNH
		Dr Michael Wagels, Plastic and Reconstruction Surgeon, Clinical Director Herston Biofabrication Institute, MNH
9.00AM - 10.45AM	PARTNERING WITH CONSUMERS ACROSS THE RESEARCH CYCLE	Chair: Dr Kelsey Pateman, Principal Research Fellow, Royal Brisbane Allied Health Professions, RBWH, Metro North Health.
		Co-Chair: Anja Christoffersen, CEO & Founder, Champion Health Agency & Consumer Representative, Metro North
	CONSUMERS IN RESEARCH CAPACITY BUILDING – THE REDCLIFFE HOSPITAL EXPERIENCE	Dr Joel Dulhunty, Director of Research, Redcliffe Hospital
	CONSUMER-LED RESEARCH PRIORITY SETTING: THE GROW MATERNITY PROJECT	A/Prof Lauren Kearney, Conjoint Associate Professor in Midwifery, UQ/RBWH
	CONSUMER INVOLVEMENT IN 2 WEEK SCOPING REVIEW	Dr Nina Meloncelli, Allied Health Translating Research into Practice Program Lead and Postdoctoral Research Fellow, Metro North Allied Health
		Anja Christoffersen, CEO & Founder, Champion Health Agency & Consumer Representative, Metro North.
	THE JOY OF CONSUMER INVOLVEMENT: PRACTICES AND REFLECTIONS FROM A CONSUMER-RESEARCHER PARTNERSHIP	Laura Ryan, PhD Student, Senior Social Worker and Senior Researcher, University of Queensland / School of Nursing, Midwifery and Social Work
		Claire Mitchell, Consumer advisor, University of Queensland /School of Nursing, Midwifery and Social Work
	HOW TO MAKE DATA COLLECTION AND ANALYSIS MORE PARTICIPATORY	Anja Christoffersen, CEO & Founder, Champion Health Agency & Consumer Representative, Metro North.
		Dr Kelsey Pateman, Principal Research Fellow, Allied Health Professions, RBWH
	PANEL DISCUSSION	All session speakers and Dale Trevor, Consumer representative, RBWH/Metro North Health Dr Adrienne Young, Senior Research Fellow/Research Coordinator, Nutrition & Dietetics, Centre for Health Services Research, UQ/RBWH
10.45AM - 11.00AM	MORNING TEA	

WEDNESDAY 6 SEPTEMBER 2023

Education Centre, Royal Brisbane and Women's Hospital

TIME	SESSION	PRESENTER
11.00AM - 12.00PM	KEYNOTE SPEAKER: PROFESSOR GEMMA FIGTREE DRIVING NATION-WIDE AND WHOLE OF PIPELINE SOLUTIONS TO PATIENT AND HEALTH SYSTEM UNMET NEEDS	Chair: Dr Sandhir Prasad, Staff Specialist, Cardiology, RBWH, Metro North Health.
12.00PM - 12.30PM	LUNCH	
12:30PM-2.30PM	CARDIOVASCULAR SHOWCASE	Chairs: Prof Louise McCormack, RBWH, Metro North Health Prof Julie McGaughran, RBWH Metro North Health
	PIONEER RESEARCH GROUP	Professor John Atherton, Director, Cardiology, RBWH, Metro North Health.
	DATA AND MODELLING TO DRIVE CVD POLICY DECISIONS AND IMPLEMENTATION	Dr Ellie Paige, Team Leader, Cardiovascular Disease Prevention, QIMR Berghofer.
	CLINICAL TRIALS IN CARDIOLOGY AT ROYAL BRISBANE AND WOMENS HOSPITAL HIGHLIGHTS	Dr Christopher Hammett, Senior Cardiologist, RBWH, Metro North Health.
	CARDIOVASCULAR GENETICS: EVOLVING PARADIGMS	Dr Sonia Shah, Heart Foundation Future Leader Fellow.
	DEVELOPMENTS IN CMRI: RESEARCH AND CLINICAL	Dr John Younger, Senior Cardiologist, RBWH, Metro North Health.
	SONOGRAPHERS AND CARDIOVASCULAR RESEARCH – CHALLENGES AND OPPORTUNITIES	Ms Ada Lo, Senior Echo-Sonographer, RBWH, Metro North Health.
2.30PM - 3.00PM	AFTERNOON TEA	
3.00PM - 5.00PM	FREE ABSTRACT PRESENTATIONS (DISCOVERY AND INNOVATION SEE SEPARATE PROGRAM)	
5.00PM - 6.00PM	NETWORKING AND REFRESHMENTS	

THURSDAY 7 SEPTEMBER 2023

TIME	SESSION	PRESENTER
8.00AM - 09.45AM	QUEENSLAND UNIVERSITY OF TECHNOLOGY - IMAGING, THERANOSTICS AND CANCER	Chairs: Associate Professor Melissa Eastgate, A/Executive Director, Cancer Care Stream MNHHS Professor Jane Phillips, Head of School of Nursing, Faculty of Health, QUT
	PROSPECTIVE MRI AND NEUROCOGNITIVE ASSESSMENT OF "CHEMOBRAIN" IN ACUTE MYELOID LEUKAEMIA: THE MINERAL STUDY	Dr Ashleigh Scott, Consultant Haematologist, RBWH, Metro North Health.
	MULTI-MODAL IMAGING AND PRECISION TREATMENT OF PROSTATE CANCER	Dr Matthew Roberts, Consultant Urologist, RBWH, Metro North Health.
	NEXT GENERATION THERAPIES FOR THE TREATMENT OF CANCER	Prof Stephen Rose, Head of Clinical Development, AdvanCell Isotopes.
	WHAT IS A "RADIOMETAL" AND HOW WILL THEY ADVANCE CANCER CARE?	Dr Brett Paterson, Head of radiochemistry, Centre for Advanced Imaging, UQ
	SYNCHRONY FOR RADIXACT: REAL-TIME MOTION SYNCHRONISATION IN RADIOTHERAPY TREATMENT DELIVERY	Ms Jemma Walsh, Radiation Therapist, RBWH, Metro North Health.
	LESION-SYMPTOM MAPPING OF CHRONIC APHASIA AND HRQOL IN BRAIN TUMOUR PATIENTS	Professor Greig de Zubicaray, Faculty of Health, QUT
	AUDIENCE DISCUSSION: FUTURE PERSPECTIVES AND QCC	Dr Stuart Ramsay, Staff Specialist, Nuclear Medicine, RBWH, Metro North Health.
		Dr Melissa Latter, Principal Radiochemist, Nuclear Medicine, RBWH, Metro North Health.
		A/Prof Glen Kennedy, A/Executive Director Medical Services, Metro North Health.
		Professor Kristofer Thurecht, Deputy Director of Research, Australian Institute of Bioengineering and Nanotechnology, UQ
9.45 AM - 10.00 AM	MORNING TEA	
10.15AM - 11.00AM	SPECIAL LECTURE: DR NICOLE GAVIN DEVELOPING AND IMPLEMENTING EVIDENCE-BASED VASCULAR ACCESS DEVICE GUIDELINES	Chair: Professor Nicole Marsh, Nursing and Midwifery Director of Research, RBWH, Metro North Health
11.00AM - 12.00PM	KEYNOTE LECTURE: PROFESSOR JAMES SCOTT THE AUSTRALIAN CHILD MALTREATMENT STUDY	Chair: Professor Leonie Callaway, Director of Research, Women's and Newborns, RBWH, Metro North Health.
12.00PM - 12.30PM	LUNCH	

THURSDAY 7 SEPTEMBER 2023

Education Centre, Royal Brisbane and Women's Hospital

TIME	SESSION	PRESENTER
12.30PM - 2.30PM	OPTIMISING CARE OF PATIENTS WITH OBESITY	Chairs: Professor Victoria Eley, Specialist Anaesthetist, RBWH, Professor of Critical Care, UQ, Tertiary Obesity Management Service of RBWH, Metro North Health. Associate Professor Helen MacLaughlin, School of Exercise and Nutrition Sciences QUT and Advanced Clinician Researcher RBWH, Metro North
	WHAT DOSE? IMPACT OF OBESITY ON DRUG DOSING	Professor Jason Roberts, Acting Director, UQ Centre for Clinical Research, Herston Infectious Diseases Institute, Metro North Health, Pharmacist Consultant, RBWH, Metro North Health.
	THERAPEUTIC TARGETS FOR OBESITY & ASSOCIATED CARDIOMETABOLIC DISEASES	Dr Moe Thuzar, PAH/Frazer Institute, Endocrinologist, PAH.
	PERSON-CENTRED NUTRITION IN OBESITY CARE	Dr Carrie-Anne Lewis (Early Career Researcher) Senior Dietician, RBWH, Metro North Health and UQ.
	OXYGENATION IN PATIENTS WITH OBESITY	Dr Louis Guy (Early Career Researcher), Specialist Anaesthetist, RBWH, Metro North Health.
	OBESITY, INFLAMMATION AND THE IMMUNE SYSTEM	Associate Professor Severine Navarro, Team Head, Mucosal Immunology Group, QIMR Berghofer.
	THE ROLE OF THE GP IN OPTIMAL CARE	Dr Terri-Lynne South, General Practitioner and Accredited Practising Dietitian, Chair of Obesity Management Group, RACGP
	SURGICAL INTERVENTIONS FOR OBESITY	Dr George Hopkins, Bariatric Surgeon, RBWH, Metro North Health.
2.30PM - 3.00PM	AFTERNOON TEA	
3.00PM - 5.00PM	FREE ABSTRACT PRESENTATIONS (TRANSLATIONAL RESEARCH SEE SEPARATE PROGRAM)	
5.00PM - 6.00PM	PRIZES AND CLOSING DRINKS WITH JIM MCGOWAN	



Across the Healthcare Journey

Thank you to all those who made the Symposium possible:

Members of the Herston Health Precinct Symposium Committee: Michael O'Sullivan (Chair), Alek Thompson, Cedryck Vaquette, Chris Shannon, David Copland, Elizabeth Powell, Geoffrey Binge, Graham Galloway, Ides Wong, Katie McMahon, Kelsey Pateman, Lauren Kearney, Mathilde Desselle, Melissa Lai, Nicole Marsh, Nicolette Frey, Sandhir Prasad, Sue Laracy.

Organising Team: Christian Andersen, Emma Dwyer, Haylee Nottle, Susan Taylor.





Thank you for attending

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