



CELEBRATING
25
YEARS
OF MATER RESEARCH



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Foreword

I write this at the end of an unusually busy year for Mater Research, including a year of 25th anniversary celebrations, a comprehensive external review, more than \$14 million across 34 externally-funded grants and 423 research publications.

We say farewell to Professor Maher Gandhi as Executive Director and Director of Clinical Research after six years in the position. The Research Advisory Board and I would like to thank him for his leadership of Mater Research and acknowledge the transformation that he has brought to the organisation.

Some major highlights for Mater Research in 2024 have been a \$2.8 million CUREator+ grant to Mater Researcher Associate Professor Jakob Begun and The University of Queensland Institute for Molecular Bioscience's Professor Robert Capon to advance a therapy for treating Inflammatory Bowel Disease. They will use their CUREator+ funding to generate a clinical candidate to raise investment for Phase 1 clinical studies.

I would also like to congratulate Professor Geoffrey Faulkner and Associate Professor Sumaira Hasnain for being awarded prestigious National Health and Medical Research

Council (NHMRC) Investigator Grants, totalling \$2.9 million and \$2.79 million respectively. With a national success rate of 13.8 per cent in this round, securing these grants attests to the quality of Mater Researchers.

I would also like to congratulate Professor Phillip Good and Ms Aleysha Martin for receiving Queensland Government-funded Clinical Research Fellowships. The purpose of this scheme is to assist clinical researchers to conduct research related to their practice. Clinical researchers are uniquely positioned to identify clinical issues that can benefit from further research, lead patient-focused research discoveries and facilitate improved patient care.

I would like to close out 2024 with a special thanks to Mater Foundation and their donors, who enable our research success through their continued support.

Dr Carrie Hillyard AM
Research Advisory Board Chair



Executive Director Report

Last year saw Mater Research celebrating its 25th anniversary – a milestone marking a quarter century of pioneering research that has transformed lives. Founded in 1999 by the Sisters of Mercy, the institute continues to embody their vision of integrating scientific discovery with compassionate care. Sister Anne Hetherington aptly stated that setting up the research institute was the last piece of the 'Mater puzzle' to make it a world-class tertiary hospital. Mater Research has grown from eight pioneering researchers based at Aubigny Place to a thriving dynamic organisation of more than 300 researchers, professional staff and students, remaining steadfast in its commitment to improving healthcare.

The past year has been a landmark year of achievement. Our researchers secured more than \$14 million in external funding and published 423 impactful studies spanning all five research programs. Notable highlights in 2024 include the opening of the Queensland Centre of Excellence in Autism and Intellectual Disability Health, which is based at the Mater Hill campus and was established with \$6 million in Queensland Government funding.

We proudly launched the Mater Research Future Leaders Fellowship to invest in the next generation of exceptional researchers, with Dr Kavita Bisht being the inaugural recipient. In an exceptional year, we awarded three Mater Research Strategic Grants for Outstanding Women to high achieving women scientists, reinforcing our commitment to diversity and excellence.

We also welcomed the Tumour Biology and Therapeutics Group to the Cancer Program, led by Professor Kum Kum Khanna. Her group strengthens our outstanding expertise in women's cancer research.

As I conclude my tenure at the institute as Executive Director and Director of Clinical Research, I thank the researchers, professional staff, students, collaborators and supporters for their dedication. It has been an honour to serve you, and I look forward to witnessing the continuing excellence of Mater Research.

It is my privilege to introduce the 2024 Annual Report, celebrating our achievements for the year and paving the way for an exciting future.

Professor Maher Gandhi
Executive Director and Director of Clinical Research



Our Year at a Glance



Professor Vicki Flenady AM
(Stillbirth Centre of Research Excellence) was appointed a Member of the Order of Australia (AM) at the 2024 Australia Day Honours List



Professor Kum Kum Khanna joined Mater Research as Group Leader, Tumour Biology and Therapeutics Research



Associate Professor Sumaira Hasnain was awarded a \$2.7m NHMRC Investigator Grant



Ms Aleysha Martin was awarded a \$100,000 Queensland Government Clinical Research Fellowship

Quarter 1

Quarter 2



Professor Ross Pinkerton (Chair of the Mater Human Research Ethics Committee) was conferred the title of Emeritus Professor in recognition of his outstanding contributions and commitment to The University of Queensland



Dr Cathy Franklin (Mater Intellectual Disability and Autism Service – MIDAS) announced the outcomes of the EASY-Health (Enhancing Access to Services for Your Health) pilot program



Professor Geoffrey Faulkner was awarded a \$2.9 million NHMRC Investigator Grant



Dr Kavita Bisht was awarded the inaugural Mater Research Future Leaders Fellowship for her project entitled '*Does endotoxemia drive anaemia and disease severity in inflammatory bowel diseases*'



Professor Phillip Good was awarded a \$250,000 Queensland Government Clinical Research Fellowship

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Dr Grace Branjerdporn was awarded a Queensland Government Better Futures Grant for *'Implementing and evaluating a mindfulness app for perinatal women from culturally and linguistically diverse backgrounds'*



Dr Yuanhao Yang published *'Genome-wide assessment of shared genetic landscape of idiopathic pulmonary fibrosis and its comorbidities'* in the journal Human Genetics



Professor John Hooper was awarded a \$827,000 NHMRC Development Grant

Mater Research celebrated its 25th Anniversary Gala Dinner at Customs House

Quarter 3

Quarter 4



Mr Muhammed B. Sabdia was awarded a Snowdome Foundation Gunn Family Fellowship for his project entitled *'Personalised immunotherapy for the treatment of light chain amyloidosis'*



Professor Sailesh Kumar published *'The Relationship between Placental Shear Wave Elastography and Fetal Weight-A Prospective Study'* in the Journal of Clinical Medicine



Professor Jean-Pierre Levesque was awarded a \$1.2 million NHMRC Ideas Grant



Professor Geoffrey Faulkner was awarded a \$745,000 Australian Research Council Discovery Project Grant

About Us

Mater Research is a world leader in medical research and serves as the research arm of Mater. Our bench-to-bedside philosophy sees us collaborating with Mater's hospitals and health services, the Princess Alexandra (PA) Hospital and our partners The University of Queensland (UQ), the Translational Research Institute (TRI) and Health Translation Queensland (HTQ).

By working closely with Mater Foundation, Mater Health, Mater Education and our growing network of partners and collaborators, we endeavour to transform scientific discoveries into the best possible treatment, care and outcomes for patients and the wider community.

Our history of successful grant applications and fellowship awards could not be achieved without significant financial support from Mater Foundation. This support funds pilot clinical trials, research projects, vital infrastructure and resources, student scholarships and the backfilling of

clinical time, enabling more clinician-led research and fellowships for our senior researchers. Mater Foundation's support allows the flexibility to sustain research beyond short-term grants.

With expertise in all aspects of medical research—including study design, ethics and governance, data collection, biobank management, analysis and implementation science—we ensure the robust management of all research and clinical trials at Mater.

We also collaborate closely with Mater Education and Mater Health to ensure that research is efficiently translated into clinical practice.



Leadership



Professor Maher Gandhi

**Executive Director and
Director Clinical Research**

Holding the roles of Executive Director and Director of Clinical Research, Professor Gandhi is responsible for implementing the strategy and establishing clinical research programs that integrates Mater Research with clinical care, aiming to shape future health policies and practices both nationally and internationally.



Professor Allison Pettit

Director of Biomedical Research

In her role as Director of Biomedical Research, Professor Pettit provides oversight, leadership and guidance in managing and executing biomedical research activities at Mater. Her role includes strategic planning, developing and executing organisational frameworks and supports improving clinical connectivity of biomedical research activity.



Ms Emily Bailey

Director of Operations

As Director of Operations, Ms Bailey manages a portfolio responsible for the operational management of Mater Research, including finance, facilities and compliance. Additionally, she focuses on strengthening both existing and new partnerships and advancing research commercialisation activities.



About us

Our structure



Ms Emily Bailey
Director, Operations



Ms Imelda Ryan
Research Compliance



Ms Alice Yin
Finance



**Dr Joanne Leerberg
and Ms Donna Simson**
Research Operations



Research Grants



Corporate Services

- Human Resources
- Digital Technology
- Corporate Affairs

Institutional Committees

- Research Education and Executive Group
- Equity, Diversity and Inclusion Committee
- Early and Mid Career Researcher Committee
- Mater Student Research Committee
- Workplace Health and Safety Committee



Mercy Partners



Mater Misericordiae Ltd
Board of Directors



Dr Peter Steer
Group Chief Executive Officer




Prof Maher Gandhi
Executive Director, Mater
Research Director, MRI-UQ



The University of Queensland
Faculty of Medicine



Mater Research Institute
The University of Queensland
(MRI-UQ)



Prof Maher Gandhi
Director of Clinical Research



Prof Allison Pettit
Director, Biomedical Research



Ms Alicia Rooney
Mater Clinical Trials



Ms Sara Coram
Research Engagement

Cancer Program 




A/Prof Adam Ewing
Prof Phillip Good

Chronic and Integrated Care Program 




A/Prof Katharine Irvine
A/Prof Lucy Burr

Mother and Baby Program 




Prof Vicki Flenady AM
Prof Helen Liley

Neuroscience Program 




Prof Geoffrey Faulkner
Dr Cathy Franklin

Healthcare Delivery and Innovation Program 



Prof Simon Denny



Research Advisory Board

The Research Advisory Board provides independent strategic advice on clinical research or scientific-related matters to the Mater Research Executive and Mater Chief Executive Officer.

Advisory Board Chair



Dr Carrie Hillyard AM serves as Chair of Fitgenes Australia Ltd and in 2024 was appointed to the Australian Association of Medical Research Institutes (AAMRI) Board.

Board Members



Professor Denise Doolan is Director of Research at the Institute for Molecular Bioscience at The University of Queensland.



Professor Karen Moritz is the Associate Dean of Research at The University of Queensland Faculty of Medicine.



Professor Frank Gannon serves as an Advisor to the Health Translation Queensland (HTQ) Board and has held leadership roles at several institutions including QIMR Berghofer and the European Molecular Biology Organisation.



Professor Cameron Turtle is a clinician-scientist and the Clearbridge Chair in Cancer Immunotherapy at The University of Sydney. He did his higher degree studies under the supervision of Mater Research's inaugural CEO Professor Derek Hart and his was one of the first PhD's ever awarded at Mater Research.

About Us

Vision: To translate our research discoveries and integrate them into improved healthcare.

Mercy Values

Mater Research wholeheartedly commits to the Mater Values:

- We honour and promote the dignity of human life and of all creation
- We act with compassion and integrity
- We strive for excellence.

Mater Research

Mater Research is committed to upholding the Mercy Values across all five research programs in relation to our scientific, medical and management Mission:

- ✔ **Integrity** – we conduct ourselves and our work honestly and ethically to build a culture of excellence
- ⚙️ **Innovation** – developing and extending knowledge to improve health
- 💡 **Inspiration** – educating and imparting knowledge to inspire each other and future generations
- 👍 **Engagement** – fostering and encouraging team work, collaboration and commitment to the community.





Mission: to discover new knowledge central to the Mater mission, translate this knowledge into practice and integrate these research outcomes into improved healthcare and educational practices across Mater.

Our Strategy

To achieve health impact through integrated research excellence:

-  Develop the quality and output of researchers in Mater-relevant areas of focus
-  Enhance Mater's expertise in areas of excellence through high-quality research
-  Ensure the balance of research across discovery, translation and integration is aligned with Mater's strategy.

Establish and maintain a strong culture of collaboration to deliver greater outcomes in line with Mater's strategy:

-  Drive research programs that reflect integration, prioritise preventative health and enhance community wellbeing
-  Develop links with academic institutions and commercial agencies to support deeper engagement in areas of strategic focus
-  Prioritise internal and external partnerships in areas of strategic focus.



Our History

Mater Research is a recognised leader in innovative and impactful medical research delivering on Mater's mission to meet the unmet healthcare needs of Queenslanders, through a bench-to-bedside philosophy.

Founded by the Sisters of Mercy and championed by Associate Professor John Burke AM and the Mater Board, the opening of Mater Research in 1999 recognised the Sisters' century-long commitment to scientific

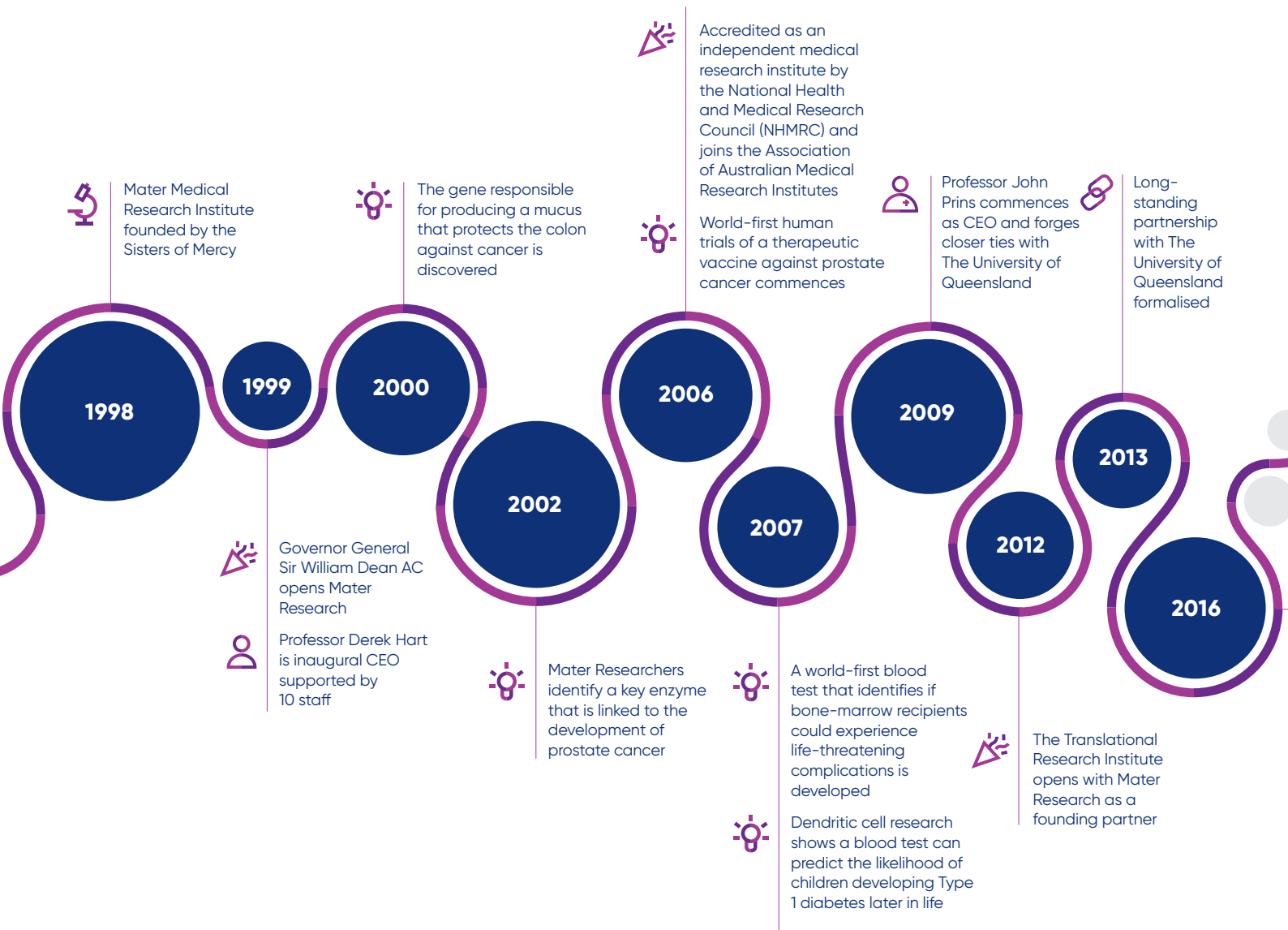
inquiry and formalised the integral role research plays in the delivery of excellence in care at Mater.

From an initial focus on the immune response to cancer, Mater Research has expanded to five core research areas:

-  **Cancer**
-  **Mother and Baby**
-  **Chronic and Integrated Care**
-  **Neuroscience**
-  **Healthcare Delivery and Innovation**

These core research areas integrate closely with hospital clinical services to drive the very best healthcare outcomes.

Mater Research is closely linked with The University of Queensland and is a founding partner of the world-class Translational Research Institute (TRI). This enables teams to collaborate with other world-leading researchers and partners in state-of-the-art facilities to turn scientific discovery into the best possible treatments.





Retrotransposons discovered as key mediators of neural diversity, opening a new avenue in the understanding of psychiatric and neurodegenerative conditions



A link between Parkinson's disease and a gene impacted by a neurotoxin found in blue-green algae is uncovered



Macrophages are found to be fragmented during the extraction process to generate single cell suspensions from bone marrow and other haematopoietic tissues



Five strains of gut bacteria that suppress gut inflammation and disease symptoms are identified paving the way for IBD understanding and treatments



Queensland Cohort awarded a \$4.69 million NHMRC grant to place health workers in Indigenous communities across Queensland and study the long-term wellbeing of Aboriginal and Torres Strait Islander families



Queensland Centre of Excellence in Autism and Intellectual Disability Health opens at Mater Research

2017

2019

2020

2021

2022

2022

2023

2023

2024



Mater Medical Research Institute becomes Mater Research Ltd



Professor Maher Gandhi appointed as Executive Director



Funding renewed for the Centre of Research Excellence in Stillbirth



Research Advisory Board is established to provide independent strategic advice on clinical research or scientific related matters



A world-first lymphoma therapy trial cures a patient's brain lymphoma



Interventional trial of Birthing in Our Community (BiOC) service for First Nations Australians shows improved outcomes for babies, including fewer preterm births



Biological agent, sRAGE, is developed and proves to be safer and less intrusive than current treatments for Type 1 diabetes prevention



SARS-CoV-2 infection found to trigger the production of oxidised cholesterol causing immune cells to migrate to the lung via a cholesterol-sensing receptor named GPR183



Cannabidiol oil is found not to improve pain, depression, anxiety or quality of life for palliative care patients with advanced cancer



An immune factor released by white blood cells during infection or inflammation is discovered to suppress the body's immune response instead of enhancing it



National Centre of Excellence in Intellectual Disability Health opens at Mater Research



Centre of Research Excellence in Stillbirth is established



RIDSTRESS trial shows sildenafil reduces intrapartum fetal compromise

Research, Education and Executive Group Committee

The Research, Education and Executive Group (REEG) is a standing committee that represents Mater Research's diverse workforce across both the Mater Hill and TRI campuses and includes early and mid-career researchers. REEG facilitates rapid consultation and decision making on a wide range of issues related to research and education policy, strategy, reward and recognition, student matters and engagement with partners and culture.

In 2024 REEG was responsible for:

- The design and approval of the new Future Leaders Fellowship scheme including guidelines, application documents and review process.
- Review of the Career Track Fellowship by the Research Engagement team on behalf of REEG. This involved analysis of past Career Track Fellows' metrics and review of whether the appointment as a Career Track Fellow was meeting the scheme's intentions.
- Update of guidelines and application process for the Mater Research Publication of the Year scheme and ranking of nominated papers.
- Ranking of Expressions of Interest from internal candidates for external schemes that have limits on the number of applicants.
- Reviewed policies, procedures and eligibility criteria for internal reward and recognition schemes to make these more transparent and inclusive, including the addition of two new Sister Medals – the Sister Pauline Mary Purtill Medal and the Sister Mary Athanasius Reardon Medal.
- Supporting the Mater Research Grants and Engagement team in the design and delivery of schemes to assist researchers to produce competitive external grant submissions. REEG members also regularly participated as mentors/readers in the implemented schemes.
- Consideration of a range of conference and award sponsorship requests. This included support of the Women in Technology Awards Welcome to Country and sponsorship of the Australian Academy of Health and Medical Sciences Life as a Clinician-Scientist Program.
- Identifying and promoting Mater Research applications to local, national and international award opportunities, whilst maintaining an equity and diversity perspective. This includes support for the Australian Day Honours, Australian Association of Medical Research Institute's Rising Star Award, TRI Awards and the Life Sciences Queensland GENE Awards.
- Monitoring student attraction rate and on-boarding efficiency facilitating the new Faculty of Health, Medicine and Behavioural Sciences design for Mater Research engagement with UQ Higher Degree Research students.

Research, Education and Executive Group members:



Professor Allison Pettit (Chair)



Professor Jake Gratten



Dr Christine Andrews



Professor Maher Gandhi



Associate Professor Katharine Irvine



Associate Professor Kym Rae



Associate Professor Paul Dawson



Ms Sara Coram



Dr Kavita Bisht



Mater Student Research Committee

A variety of activities in 2024 were led by the Mater Student Research Committee (MSRC) to recruit new students and support a high-quality research program for more than 120 Higher Degree Research (HDR) students based at Mater Research.

Some of the highlights of the MSRC's activities included:

- Organisation of the Mater Research Student Retreat, which was held at Mater's Newstead campus and UQ's City campus over two days, with PhD and Honours students participating in scientific presentations and team building activities including a group dinner, laser tag and trivia.
- Organisation of the Mater Research Future Leaders Symposium, celebrating the success of Mater Research Students and Early Career Researchers.
- A series of professional development training courses for HDR students—BRIDGE communication training programs to enhance the communication skills of students for their future presentations, including the Three Minute Thesis (3MT®) and Future Leaders Symposium; and Progress Review 1 (PR1) Workshops for new HDR students at Mater Research.
- An information event at TRI to attract new students to Mater Research, which included a tour of research laboratories, scientific poster presentations and a networking event with a BBQ lunch.

Mater Student Research Committee members:



**Professor
Brian Gabrielli
(Chair)**



Dr Soi Law



Ms Chenping (Lucy) Du



**Associate Professor
Paul Dawson**



Dr Raphael Ricci



Ms Eline Jessen



Ms Sarah Doyle



Dr Behnam Rashidieh



Mr Elias Roro



Ms Sara Coram



Ms Nikita Rosendahl



**Associate Professor
Liisa Laakso**



Mr Haresh Sankar



- Review and administration of new student applications and applications for the Mater Research Frank Clair Top Up Scholarship. The committee also oversaw the Mater Research HDR Travel Awards, including the prestigious Dr David Serisier Travel Award.
- Student social events, including three Mater Research Mixers, three student BBQs, two pizza lunches, three Mater Foundation fundraising bake sales and participation in the Mater International Women's Day

Fun Run. Additionally, Mater students volunteered for Mater Foundation at a range of fundraisers including the Nine Telethon supporting Mater Little Miracles, the Australian Open Polo event and the Brisbane to Gold Coast Cycle for Cancer.

- At the Mater Research 3MT[®] competition, two Mater Research PhD students progressed to the UQ Faculty of Medicine 3MT[®] Final, which was won by Mater Research's Ms Renee Chu who then progressed to the UQ 3MT[®] Final in October.

- Honours student research presentation events held four times during the year.
- Weekly communication to all Mater Research students and their advisors via the "Happy Wednesday" email.

Student Successes



Ms Nikita Rosendahl was the Mater Research 3MT® Winner, she was awarded Best Presentation at the UQ MD student conference and received \$5,000 from the Australian and New Zealand Society for Immunology for a travel award for an Oral presentation at the International DC2024 meeting. Nikita is also the UQ representative at the upcoming MD Australian and New Zealand Medical School 3M+1Q ANZ Competition



Mr Haresh Sankar received the People's Choice Award at the Mater Research 3MT® competition. Additionally, he has been selected to attend the European Molecular Biology Laboratory (EMBL) Australia PhD Course at Monash University where he will represent Mater Research. This course brings together the top 60 high-achieving PhD students from across Australia



Dr Hareshh Sajiir was the 2024 UQ Faculty of Medicine HDR Student of the Year Runner Up



Ms Renee Chu was the Mater Researcher 3MT® Runner up, the UQ Faculty of Medicine 3MT® Winner and UQ 3MT® Finalist



Ms Megan Roberts won an award for her submitted abstract at the Combined Red Cell Club and East-West Iron Club Meeting in Philadelphia, US



Ms Chenping (Lucy) Du won the Runner up, Poster Award at the TRI Student Symposium.



Dr Rabina Giri was awarded the prestigious 2024 Dean's Award for Outstanding HDR Thesis from UQ

Early and Mid-Career Researcher Committee

In 2024, the Early and Mid-Career Research (EMCR) Committee ran a number of activities. Some of the highlights included:

- Coordinated the Mater Research Seminar Series, with more than 20 theme-based seminars held throughout the year at both TRI and Mater's South Brisbane campus. These seminars were consistently well attended and covered a wide range of topics reflecting the Institute's diverse research portfolio. This year's Seminar Series also featured several national and international guest speakers.
- Participated in TRI lab tours for prospective students, Mater Foundation donors, Future Leader Symposium judges and breast cancer consumers.
- Organised guest speakers at EMCR monthly meetings and social events to initiate collaboration between biomedical EMCRs and clinical researchers.
- Established the TRI Tumour Immune Microenvironment Journal Club.
- Coordinated and organised bake sales for several events such as Mater Giving Day, Smiling for Smiddy and Frocktober, raising funds for Mater Foundation.
- Organised and chaired the 2024 OneTRI Professional Development Workshop and TRI EMCR mixer and chairing of Future Leader Symposium.
- Expanding mentoring opportunities and initiated mentoring for PhD students from EMCRs.
- Contributed as judges for Mater Research Honours student seminars, Mater Research 3MT® event and the OneTRI Student Symposium.

More than 50 EMCRs are supported by the EMCR Committee which offers peer support and professional development opportunities.

Over the past year, co-chairs Dr Kavita Bisht and Dr Christine Andrews have prioritised expanding and embedding leadership opportunities within the committee. The support Mater EMCRs receive is a result of the combined contributions and leadership of all Committee members.

Chairs of the EMCR Committee:



Dr Kavita Bisht



Dr Christine Andrews

Equity, Diversity and Inclusion Committee



Following three years of dedicated leadership, Associate Professor Sumaira Hasnain stepped down as Chair of the Mater Research Equity, Diversity and Inclusion Committee (EDIC) which saw the Committee expand its membership. In 2024, membership was refreshed with the appointments of Dr Sandy Richardson as the new Chair and Dr John Kemp as the Deputy Chair.

The EDIC collaborated with the UQ Faculty of Medicine to organise TRI events, including:

- The International Women's Day Event on 8 March 2024, chaired by Ms Melody Muscat, Head of Indigenous Education at UQ's School of Public Health. This event included a panel Q&A session and a networking morning tea.
- NAIDOC week was celebrated on 12 July with an event highlighting the experiences of First Nations Australian Doctors: Successes and

Challenges. Trainee paediatrician Dr Kimberley Male (proud Dharug woman) and Australia's only Indigenous ophthalmologist Associate Professor Kris Rallah-Baker (proud Yuggera and Biri-Gubba man) shared their insights into Indigenous health in Australia, and their positive experiences and hurdles throughout their careers.

The EDIC also ran their own event to celebrate Mater's long history of inclusion and empathy on Friday 30 August.

Members of the Equity, Diversity and Inclusion Committee:



Dr Sandy Richardson
(Chair)



Associate Professor Ingrid Winkler



Dr Anna Alvasker



Dr John Kemp
(Deputy Chair)



Dr Soi Law



Ms Prasadhee Vijayakumar



Associate Professor Sumaira Hasnain
(Past Chair)



Dr Kylie Crawford



Dr Behnam Rashidieh



Associate Professor Kym Rae



Dr Stephanie Workman



Dr Luciana Massi



Ms Sara Coram



Mr Kayden Kwah



Prof Jake Gratten

Research Compliance

Mater Research Compliance supports researchers in completing the regulatory requirements for ethical approval and governance authorisation before commencement of projects.

This process, required for most Mater Research projects, assesses the potential benefits and harms to participants as well as the safety and benefit of undertaking the work at Mater.

This year, the Research Compliance team realigned its priorities, leading to the formation of the Research Quality Management Team, which is dedicated to supporting the integrity and quality of the research activities. The team has started implementing a comprehensive quality assurance process aimed at enhancing research outputs and promoting a culture of excellence. A key focus is supporting the Mater Clinical Trials service to ensure the delivery of high-quality trials, integrated into routine health services and standard care practices.

The Research Compliance team also introduced a new Research Aboriginal Liaison role to support Mater Researchers in ensuring that

research is inclusive, safe, respectful and responsible. This role helps ensure that research is of high-quality and benefits Aboriginal and Torres Strait Islander people and communities.

Work on the priority improvement projects launched in 2023 have progressed, with several key initiatives successfully delivered. The single review process for annual progress reports and amendments is now underway, with the review of lower-risk studies set to begin in the new year. The team has also streamlined the safety reporting requirements and published a range of guides and fact sheets to help researchers navigate the process more effectively.

The focus on streamlining services across Research Compliance has enabled the team to significantly reduce the backlog in research agreements. This improvement has also created opportunities to provide additional education and support to Study Coordinators and Principal Investigators in the internal monitoring of their clinical trials.





Mater Research 25th Anniversary Celebrations

Aubigny Place celebration

More than 100 Mater Researchers came together on Friday 10 May on the lawn outside our first home—Aubigny Place—to celebrate our 25th anniversary.

Indigenous Health Research Group member Dr Luciana Massi gave an emotional Acknowledgement of Country, before speeches by Professors Maher Gandhi, Janet Hardy and Jean-Pierre Levesque, where they shared memories of their time at Mater Research.

Commemorative pins were distributed to attendees and a presentation of photos dating back to the opening of the institute were screened.





Gala Dinner celebration at Customs House

On Thursday 14 November, Mater Research's 25th anniversary was celebrated with a Gala Dinner at Customs House.

Amongst the 140 guests celebrating this milestone were VIPs including the Mater Board, Mercy Partners Board Director Mr Kieran McCarthy, The University of Queensland Vice Chancellor and President Professor Deborah Terry AC, Sister Angela Mary Doyle and Sister Sandra Lupi (RSM), previous Mater Research CEO

Professor John Prins, Mater Executives and Mater Foundation donors.

As part of the evening's program, Mater Group Chief Executive Officer Dr Peter Steer and Executive Director Professor Maher Gandhi reflected on research achievements over the past 25 years and looked to future opportunities in the next quarter of a century.

A video featuring former academics of Mater Research, including Professor Mike McGuckin, reflected on how the Institute has developed since its inception.

A panel discussion featuring Sister Sandra Lupi (RSM), Professor Allison Pettit, Associate Professor Paul Dawson and Dr Chloe Yap discussed some of the most impactful achievements of Mater Research and the upcoming research priorities.



Thank you to all supporters who celebrated this incredible milestone.

Future Leaders Symposium



This year's Future Leaders Symposium was held at TRI on Friday 6 September. A celebration of Mater Research Higher Degree Research (HDR) students and Early to Mid-Career Researchers (EMCRs) was held with Mater Research staff, All Hallows' School Year 12 students, health consumers and Mater Foundation donors and supporters.

The annual symposium provided an invaluable opportunity for Mater researchers, students and clinicians to learn more about the important work being undertaken by the next generation of researchers.

Following an Acknowledgement of Country delivered by proud Gooreng and South Sea Islander woman Ms Davina Smith from Mater Research's Indigenous Health Research Group, the prestigious Professor John Prins Oration was delivered by Associate Professor Jakob Begun, Director of Gastroenterology at Mater Hospital Brisbane and leader of the Inflammatory Bowel Disease (IBD) Research Group at Mater Research, together with health consumer Ms Raya Brunello.

A/Prof Begun provided an overview of his research team's integration of clinical and translational research, including insights into the STOPit clinical trial for chronic pouchitis, while Ms Brunello, a patient of A/Prof Begun, provided her perspective of living with IBD and participating in the STOPit clinical trial.

The symposium included presentations from Mater Research's most promising clinical and biomedical HDR students and EMCRs, including Dr Sheridan Guyatt, Dr Kayden Kwah, Dr Irina Buckle and Dr Jasmine Antoine.

Dr David Serisier Student Travel Award Winner:

Mr Shivam Vora

The prestigious Dr David Serisier Student Travel Award was presented to final year Biomedical HDR student Mr Shivam Vora from the Smiddy Cancer Cell Cycle Group at Mater Research. His PhD project focuses on polyploidy induced by the inhibition of Aurora Kinase B

and the genetic background that determines the outcomes of this inhibition. He used the Award to travel to the European Association of Cancer Research Congress 2024 and to visit the lab of Professor Susanne Lens and UMC Utrecht.



Mater Research International Travel Award Winners:

Ms Kaitlyn Flynn is a final year PhD student in the Musculoskeletal Genomics Group. She applies statistical genetics methods to identify new drug targets to treat osteoporosis and prevent fractures.



Ms Sreeparna Bhaumik is a final year PhD student in the Pregnancy and Development Group. Her research focuses on how stress, anxiety and depression affect pregnancy by studying the body's stress receptors.



Ms Tania Marsden is a PhD student with the Stillbirth Centre of Research Excellence. Her study is looking to improve the approach to stillbirth investigations by examining the utility and quality of the investigations.



Mater Research celebrated award winners and finalists, who were recognised at the symposium.

Clinical Trials



In 2024, Mater Clinical Trials focused on consolidating and improving the quality of its service and integrating consumer participation into clinical trials as part of healthcare delivery, in alignment with the Australian Commission on Safety and Quality in Healthcare's National Clinical Trial Governance Framework (NCTGF). Mater Clinical Trials is actively recruiting sponsored and investigator-led trials across a broad spectrum of specialities, including medical oncology, respiratory medicine, neurology, gastroenterology, obstetrics and neonatology.

Mater Research has led a dedicated Strategy Working Group (SWG) to oversee the integration of trials into hospital standards, ensuring readiness for assessment at Mater's next hospital accreditation. The SWG includes representatives from both Mater Research and Mater Health, ensuring a prioritised strategy that meets both research and community needs.

Mater Clinical Trials is committed to improving health for the community. It builds its service around the core priorities of delivering high-quality and compliant trials that meet Mater's clinical and research needs. Significantly, it ensures clinical trial healthcare safety and quality, fosters positive consumer engagement and cultivates a supportive team culture.

With a clear understanding of its services and priorities, Mater Clinical Trials has launched many quality improvement initiatives. Key initiatives in 2024 included enhancing clinical trial access for First Nations communities, fostering quality through enhancements of research governance frameworks,

policies and procedures, and conducting service evaluations based on feedback from participants and consumers to improve their experiences. Additionally, professional development and education opportunities are being developed for 2025.



Cancer Program Report

Meet Our People Professor Kum Kum Khanna

Mater Research welcomed Professor Kum Kum Khanna in early 2024. Prof Khanna, who leads Mater Research's newly established Tumour Biology and Therapeutics Research Group, brings with her more than three decades of experience in cancer research and is based at TRI.

Prof Khanna has been awarded more than \$42 million as chief investigator in collaborative research income in health and basic science. With more than 200 publications and 12,000 citations, Prof Khanna is a recognised and respected leader in her field.

Prof Khanna's research focuses on understanding how our cells respond to sources of DNA damage. This is an area of critical importance to cancer research as defects in mechanisms controlling DNA damage repair are associated with increased cancer

susceptibility. Her groundbreaking discoveries have included identifying the Ataxia Telangiectasia Mutated (ATM) gene's role in DNA repair and cell cycle regulation and uncovering connections between ATM and other cancer-related genes.

Prof Khanna's research has expanded the understanding of cancer biology and has also paved the way for innovative treatment strategies. By exploiting DNA repair deficiencies in cancer cells, she has led efforts to develop targeted therapies that hold immense promise for improving patient outcomes.

Prof Khanna works closely with Mater Research's women's cancer researchers, including Professor John Hooper, Professor Kristen Radford, Professor Brian Gabrielli and Dr Jodi Saunus. Prof Khanna's research will also link into Mater's clinical areas through access to tumour specimens from



Mater's Gynaecological and Breast Cancer Biobank enabling Prof Khanna and her team to study the response of new therapeutics and develop new treatment strategies to benefit patients with advanced disease.

Prof Khanna's goal is to see metastatic cancer become a manageable chronic disease—like diabetes—with improved survival rates and treatments that enable people to live long and healthy lives.



We're investigating the biological basis of many solid and blood borne malignancies, advancing diagnosis, developing and trialling new therapies, and improving all aspects of the management of cancer including palliative care.

Program Leads:



**Associate Professor
Adam Ewing**
Translational
Bioinformatics Research



**Professor
Phillip Good**
Palliative Care
Research

Group Leaders:



Professor Brian Gabrielli
Smiling for Smiddy Cell
Cycle Melanoma Research



Professor Allison Pettit
Bones and Immunology
Research



Professor Maher Gandhi
Blood Cancer
Research



Professor Kristen Radford
Cancer Immunotherapies
Research



Professor John Hooper
Cancer Biology
Research



**Associate Professor
Ingrid Winkler**
Stem Cells and
Cancer Research



**Professor Kum
Kum Khanna**
Tumour Biology and
Therapeutics Research



Chronic and Integrated Care Program Report

Meet Our People

Associate Professor Jakob Begun

Associate Professor Jakob Begun is a globally recognised expert in Inflammatory Bowel Disease (IBD), leading the IBD Group at Mater Research and serving as Director of Gastroenterology at Mater Hospital Brisbane. With more than 100 peer-reviewed publications and more than \$7.5 million in competitive funding, his work is redefining the understanding of the gut microbiome's role in IBD and pioneering patient-centred treatments.

A/Prof Begun's research focuses on the gut microbiota's role in immune regulation to develop new treatments for IBD, which affects more than 200,000 Australians. Current IBD treatments often have limited efficacy and adverse effects, driving his team to explore specific bacteria that produce anti-inflammatory metabolites with therapeutic potential.

A/Prof Begun's group has recently identified five strains of gut bacteria with anti-inflammatory properties, opening new therapeutic pathways for those with chronic inflammatory diseases like IBD. His achievements

have been backed by prestigious National Health and Medical Research Council (NHMRC) and industry grants, solidifying his status as a leading figure in gastroenterology and microbiome research.

Additionally, A/Prof Begun has led development of an advanced technology pathway to determine the microbial immunomodulatory functions (MIF) of gut microbiota (published in the prestigious journal, Cell Reports). His research has revealed that IBD patients' stool metabolites fall into three distinct MIF profiles, potentially explaining the variability in treatment responses. Supported by a 2024 NHMRC Ideas Grant, this discovery is paving the way for personalised IBD treatments that are customised to individual microbiome profiles.

Throughout his career, A/Prof Begun has driven microbiome and gastroenterology research forward, establishing one of Australia's largest IBD Biobanks with more than 1,000 samples. His Mater IBD Clinical Trials team is among the country's most active, enabling swift and precise sample collection and a capacity for trials across diverse IBD phenotypes.



By supervising six PhD students and numerous research staff, A/Prof Begun contributes to the field through education and collaboration.

With substantial support from Mater Research, Mater Foundation and prominent organisations such as the NHMRC, A/Prof Begun's research outcomes are set to transform IBD treatment through safer, more effective and personalised therapies, embodying Mater's values and profoundly impacting the broader IBD community.



We're building greater understanding of the biological basis of a broad range of chronic diseases, and developing preventative strategies and innovative treatments to improve patient outcomes.

Program Leads:



**Associate Professor
Katharine Irvine**
Innate Immunity and
Inflammation Research



**Associate Professor
Lucy Burr**
Respiratory and Infectious
Diseases Research

Group Leaders:



**Associate Professor
Jakob Begun**
Inflammatory Bowel
Diseases Research



Dr John Kemp
Musculoskeletal
Genomics Research



**Professor
Josephine Forbes**
Diabetes and
Metabolism Research



**Professor
Jean-Pierre Levesque**
Stem Cell Biology
Research



Professor David Hume AO
Macrophage Biology
Research



**Professor
Katharina Ronacher**
Infection, Immunity and
Metabolism Research



**Associate Professor
Sumaira Hasnain**
Immunopathology
Research



Professor Kim Summers
Genetics, Genomics and
Transcriptomics Research



Healthcare Delivery and Innovation Program Report

Meet Our People

Catherine's House Research Team

Catherine's House for Mothers, Babies and Families, based at Mater's South Brisbane campus, is a specialised centre focused on mental wellness, family health and strengthening relationships during pregnancy and postpartum. Offering both inpatient and outpatient services, the centre is dedicated to being a leader in perinatal mental health, combining clinical care, education, and research to improve outcomes for parents, children and families.

In 2024 the Catherine's House Research Team comprised of Dr Grace Branjerdporn, Dr Hayley Kimball, Dr Sam Adhikary, Ms Kerri Gillespie, Mr Matthew Porter and Ms Megan McClenaghan who bring unique expertise to their roles.

Catherine's House has achieved several key milestones, reflecting the rapid growth of its clinical services and the impact of its research initiatives. A significant accomplishment was the launch of the Catherine's House Evaluation Project, which gathers essential data on mother-infant bonding, parenting confidence and mental health outcomes. These findings are set to guide future care practices and enable the centre to scale its

services more effectively, potentially serving more families across Queensland.

Additionally, Catherine's House has spearheaded a range of innovative research projects focused on supporting high-risk groups and developing inclusive, culturally responsive care. One such initiative addresses the unique mental health needs of families from diverse cultural backgrounds using multilingual videos about Domestic and Family Violence in the peripartum, funded by a grant received from the Queensland Government Department of Justice and Attorney General.

Other notable research projects include the Father's Group Evaluation, examining father engagement and well-being and the Physiotherapy Mindfulness Group Evaluation, both of which received Rotary Best Start Grants. The Catherine's House Research Team also launched a study on the Parent Lounge mindfulness app, designed to support parental mindfulness and stress management and originally funded by a Betty McGrath Seeding Grant, the study received additional funding to translate the app through the Queensland Mental Health Commission. Through an Australian Communities Foundation Grant, the research team is also implementing and evaluating the deployment of Parent Peers in rural

communities. In collaboration with other clinicians at Mater Mothers' Hospital, the Catherine's House Research Team was successful in obtaining Mater Research Betty McGrath Seeding Grant funding to assess birth trauma and evaluate different models to address this.

Catherine's House operates with several core research pillars, including Service Evaluation, Support for High-Risk Groups, Co-design with Consumers to ensure family-centred approaches and Clinical Impact, ensuring that research findings directly enhance clinical care. Its role within Mater Mothers' Hospital, Australia's largest maternity service, further strengthens its ability to influence perinatal mental health services statewide and nationally. A reflection of the recognition of the work of the Research Team is its receipt of the 2024 Mater People Award for innovation.

Through its comprehensive care model, Catherine's House is making a profound impact on maternal mental health in Queensland, providing families with critical support to foster resilience, confidence and bonding. As a centre of excellence and community support, it is helping to shape the future of perinatal and family health, setting a new standard for quality, accessible care for families across Australia.



Our multi-disciplinary teams are addressing health-related research questions that impact across all health disciplines.

We're working across areas including education, health economics and implementation science, and seek robust consumer input to address research topics that have relevance for the community.



Program Lead:



Professor Simon Denny
Mater Young Adult
Research

Collaborative Group Leaders:



Professor Claire Jackson
Centre for Health System
Reform and Integration



Dr Grace Branjerdporn
Catherine's House
for Mothers, Babies
and Families



**Associate Professor
Liisa Laakso**
Allied Health Research

Mother and Baby Program Report

Meet Our People Professor Vicki Clifton

Professor Vicki Clifton's research focuses on the impact of maternal asthma and other health complications during pregnancy on placental function, fetal growth and childhood development. She has secured National Health and Medical Research Council (NHMRC) and Australian Research Council (ARC) funding and has obtained 26 competitive national and international grants.

Prof Clifton has established an international reputation as leader in the field of asthma and pregnancy research and has authored more than 300 publications. She has a specific interest in the sex-specific differences in the fetal-placental response to complications during pregnancy, specifically in understanding the different strategies male and female fetuses implement to cope with an adverse event in pregnancy and how these ensure their survival in early life.

Prof Clifton's wider contributions are related to engagement in the development of guidelines for the treatment of asthma during pregnancy on both a national and international level. Asthma is a highly prevalent chronic medical condition affecting 17 per cent of all Australian women during their pregnancy, increasing to 25 per cent among women of Aboriginal and Torres Strait Islander ancestry (respectfully referred to as Indigenous women). Maternal asthma significantly increases the risk of adverse outcomes including preterm birth, low birth weight and neonatal death. This chronic disease thus represents a significant health burden, harming mother and fetus as well as impacting the long-term health of the offspring. Clinical solutions and new targets for interventions are required to reduce the burden of this disease during pregnancy and for improving the life-long health of the offspring. Prof Clifton's research targets a translational endpoint through new discoveries,



defined interventions, especially for Indigenous women with asthma and changes in policy and practice.

She aims to decipher the placental mechanisms that contribute to reduced fetal growth, in collaboration with the Indigenous Health Group at Mater Research, develop culturally appropriate interventions for the management of asthma during pregnancy and continue to lead the development of a large-scale longitudinal birth cohort study in Queensland with a specific focus on asthma in mothers and its impact on child health.



We're studying the pathophysiology and improving clinical management of pregnancy complications, and optimising the care of women during healthy pregnancy. We're also focused on improving women's postnatal and broader gynaecological health. We're continuing to advance the care and outcomes for sick neonates, and studying the relationship between fetal development, early life experience and lifelong health.

Program Leads:



Professor Vicki Flenady AM
Centre of Research
Excellence in Stillbirth



Professor Helen Liley
Critical Care of the
Newborn Research

Group Leaders:



Professor Vicki Clifton
Pregnancy Development
Research



Associate Professor Kym Rae
Indigenous Health
Research



Professor Sailesh Kumar
Genesis Maternal Fetal
Medicine Research



Dr Sandy Richardson
Developmental Molecular
Genetics Group



Neuroscience Program Report

Meet Our People

Queensland Centre of Excellence in Intellectual and Developmental Disability Mental Health

This year saw Mater Research opening a landmark initiative to transform healthcare for Queenslanders with intellectual and developmental disability, based at Mater's South Brisbane campus.

The **Queensland Centre of Excellence in Intellectual and Developmental Disability Mental Health**, backed by a three-year \$6 million investment from the Queensland Government, aims to address decades-long health inequities and create a brighter, healthier future for individuals with intellectual disability and autistic people across the state.

With approximately 80,000 Queenslanders living with intellectual or developmental disability, the need for tailored, compassionate and equitable healthcare is undeniable. On average, individuals with intellectual disability live 27 years less than their non-disabled peers, while autistic people face a 16-year gap in life expectancy. Even more troubling, more than half of the deaths in these communities are preventable, often due to misdiagnosed conditions and poor access to appropriate care.

Building on the success of the Queensland Centre of Excellence in Autism and Intellectual Disability Health (QCEAIDH), the new Centre, also led by Senior Research Fellow

and Director of Mater Intellectual Disability and Autism Service (MIDAS) Dr Cathy Franklin, adopts a collaborative approach to service design. It actively involves individuals with intellectual and developmental disabilities, their families, and support networks to ensure its services are effective and inclusive.

The Centre focuses on providing clinical leadership, education and training to build capacity across the healthcare sector. A key objective is to equip healthcare professionals with the knowledge and skills needed to deliver high-quality care to individuals with intellectual disability and those on the autism spectrum. This initiative is expected to address long-standing gaps in healthcare delivery by improving the understanding and confidence of health professionals in this specialised area.

Operating on a statewide basis, the Centre will also address the needs of Queenslanders in rural and remote regions. Through outreach programs, it aims to extend specialist support and mental health services to underserved areas, ensuring that geographic location does not limit access to care.

The Centre's research component will play a critical role in identifying and evaluating innovative strategies

to improve health outcomes. By leveraging Mater Research's expertise, the Centre aims to create evidence-based solutions that can inform broader changes in healthcare policy and practice.

The Centre adopts a networked, statewide approach to provide specialist clinical advice, capacity-building and education and will work closely with the state's Hospital and Health Services to develop dedicated mental health teams focused on intellectual and developmental disability. These teams will provide specialist consultation, initial assessments and ongoing support, enhancing the overall capability of Queensland's mental health services.

As the Queensland Centre of Excellence in Intellectual and Developmental Disability Mental Health begins its work, it promises to pave the way for a fairer and more compassionate healthcare system for some of the state's most vulnerable citizens. Through research, collaboration and education, the Centre will work with Queensland mental health services, people with intellectual and developmental disability, their families and support people, to improve health outcomes for these patients.



We're seeking greater understanding of the genetics and pathophysiology of diseases of the brain and nervous system, and improving the diagnosis and surgical, medical and psychological management of neurological disease, intellectual disability and cognitive health.



Program Leads:



Professor Geoffrey Faulker
Genome Plasticity and Disease Research



Dr Cathy Franklin
Queensland Centre of Excellence in Autism and Intellectual Disability Health

Collaborative Group Leaders:



Associate Professor Paul Dawson
Neurodevelopmental Research



Dr Carlie Cullen
Glial Neurobiology, Cognition and Behavioural Research



Dr Dhanisha Jhaveri
Neural Stem Cell Biology Research



Professor Jake Gratten
Cognitive Health Genomics



Professor Aileen McGonigal
Mater Epilepsy Unit Research



Professor Peter Nestor
Cognitive Neurology Research



Dr Andrew Swayne
Neuroimmunology Research

Grant Successes 2024

Lead Investigator

National and Health Medical Research Council

Professor Geoffrey Faulkner, Investigator Grant, Mobile DNA decides neuronal fate in the normal and degenerative human brain.

\$2,924,080

Associate Professor Sumaira Hasnain, Investigator Grant, Unlocking the Therapeutic Potential of Interleukin-22.

\$2,792,745

Professor Jean-Pierre Levesque, Ideas Grant, Mechanisms and first prophylactic treatments of neurogenic heterotopic ossifications.

\$1,282,970

Professor John Hooper, Development Grant, Optimising an antibody for clinical trials in cancer patients.

\$827,864

National Breast Cancer Foundation

Professor Kum Kum Khanna, Investigator Initiated Research Scheme, Targeting the redox niche of triple-negative breast cancer to treat brain metastases.

\$337,605

Professor Kum Kum Khanna, Investigator Initiated Research Scheme, Exploitation of the immunogenicity of CEP55 to enhance the efficacy of immunotherapy for triple-negative breast cancer.

\$31,092

Dr Behnam Rashidieh, Investigator Initiated Research Scheme, Targeting Metastatic Breast Cancer by Oligonucleotide Therapeutics with the FDA Approved Lipid Nanoparticle (LNP) Delivery System.

\$550,690

Australian Research Council

Professor Geoffrey Faulkner, Discovery Project, The mobile DNA origins of gene regulation.

\$745,000

Dr Charles Bell, Discovery Early Career Researcher Award, The rules of engagement between transcription factors and cofactors.

\$478,968

Australian Government

Professor Sailesh Kumar, Australia-ASEAN Council Grant, Better Outcomes for Small Babies in Malaysia.

\$35,899

Queensland Government

Dr Grace Branjerdporn, Better Futures Grant, Implementing and evaluating a mindfulness app for perinatal women from culturally and linguistically diverse backgrounds.

\$249,800

Professor Phillip Good, Clinical Research Fellowship, Developing a Queensland Palliative Care Research Tele-Trial Program.

\$250,000

Ms Aleysha Martin, Clinical Research Fellowship, Transforming stroke care using a transdisciplinary stroke assessment: a multi-site study.

\$100,000

Associate Professor Katharine Irvine, Queensland Biomedical Business Attraction Program, The impact of regenerative therapies during normothermic liver perfusion.

\$90,351

Contract/Commercial Research

Professor David Hume AO, ACT Health, Bioinformatic Analysis of Macrophage Gene Expression Data.

\$40,000

Associate Professor Jakob Begun, Micromune Therapeutics Pty Ltd, CUREator Grant, Micromune Research Project - Microbiome derived IBD small molecule.

\$325,899

Associate Professor Jakob Begun, Allianthera (Suzhou) Biopharmaceutical Co. Ltd. In vitro assessment of IBD compounds.

\$49,879

Associate Professor Jakob Begun, Micromune Therapeutics Pty Ltd, CUREator+ Grant, Micromune Research Project - Microbiome derived IBD small molecule.

\$2,480,722

Juvenile Diabetes Research Foundation

Professor Josephine Forbes, Strategic Program for Advancing Research Commercialisation (SPARC), Nanopatch delivery of the biologic sRAGE to dendritic cells to prevent and treat Type 1 diabetes.

\$150,000

Dr Irina Buckle, Postdoctoral Fellowship, Defining the Immunomodulatory Effects of RAGE Targeting Therapies that Slow the Development of Type 1 Diabetes.

\$135,000

Industry, Government and Research Funding

Dr Kavita Bisht, Australasian and New Zealand Society for Immunology, Career Advancement Award – Mid Career Category.

\$3,000

Dr Prahlad Raninga, Children's Health Foundation, Preclinical and Clinical EMCR Fellowship, Developing a novel targeted therapy for MYCN-amplified neuroblastoma by inhibiting oxidative phosphorylation.

\$16,935

Associate Professor Katharine Irvine, Gastroenterology Society of Australia, Project Grant, Hepatic delivery of colony stimulating factor 1 mRNA to promote liver repair.

\$50,000

Associate Professor Jakob Begun, Gastroenterology Society of Australia, Dr Falk Pharma Research Grant, A randomised, open-label, non-inferiority study of Upadacitinib compared with oral corticosteroid for induction of remission in moderate to severe Ulcerative Colitis and Crohn's Disease – INDUCE.

\$40,000

Professor Aileen McGonigal, Queensland University of Technology, Industry Connector Scheme, Towards precision diagnosis in epileptic seizures using quantified video analysis.

\$60,000

Mr Muhammed Sabdia, Snowdome Foundation, Gunn Family Fellowship, Personalised immunotherapy for the treatment of light chain amyloidosis.

\$450,000

Dr Christine Andrews, Stillbirth Foundation Australia & Stillbirth CRE Research Grant 2023, Co-designing with bereaved parents a sustainable framework to enhance stillbirth research quality and translation.

\$20,000

Dr Yoon Kwon Choi, The Royal Australian and New Zealand College of Psychiatrists – RANZCP Foundation Beverley Raphael New Investigator Grant.

\$6,000

Associate Professor Sumaira Hasnain, The University of Queensland, Australian Infectious Diseases Centre, Project Seed Funding, Targeting epithelial-mesenchymal transition to resolve infection-driven fibrosis in inflammatory Bowel Disease.

\$50,000

Professor Maher Gandhi, The University of Queensland, Queensland Immunology Research Centre Grant, Establishment of a bank of highly characterised patient-derived xenograft models of Chronic Lymphocytic Leukaemia for the development of novel immune based approaches.

\$25,000

Dr Kavita Bisht, The University of Queensland, Frazer Family Foundation, 2024 Frazer Family Foundation Travel Award.

\$4,917

Dr Rabina Giri, Translational Research Institute, Leading Innovations through New Collaborations (LINC), Investigating JAK-STAT biomarkers as predictors of treatment response in chronic pouchitis.

\$50,000

Dr Minh Dao Ngo, Translational Research Institute, Leading Innovations through New Collaborations (LINC), Oxysterols and Oxysterol-sensing receptor as novel therapeutic targets for alleviating inflammation in bronchiectasis.

\$50,000

Dr Michaela Kindlova, Translational Research Institute, Leading Innovations through New Collaborations (LINC), Decoding the role of fibroblast activation protein in the milieu of pancreatic cancer: genomic insights for early detection with FAPU-PET/CT.

\$50,000

Internal Grants

Strategic Grant for Outstanding Women

As a step toward closing the 'research academic gender gap', the Mater Research Strategic Grant for Outstanding Women was implemented with the generous support of Mater Foundation. The two-year grant supports the research and career progression of high-profile and high-potential female researchers at Mater who have excelled in their fields. As a result, these high-achieving women will be better positioned to succeed in research, accelerating their advancement to academic promotions.

In 2024, three Strategic Grants for Outstanding Women were awarded to:



Dr Léanie Kleynhans



Dr Irina Buckle



Dr Simranpreet Kaur

Early Career Researcher Seeding Grants

The Mater Research ECR Seeding Grant scheme is designed to build capacity through encouraging EMCRs to lead innovative research projects at Mater Research whilst also remaining committed to research excellence. Awarding of these grants is intended to assist successful applicants to be competitive on a national and international level through applications to major funding bodies. Two grants are awarded each year with funding directed towards one biomedical and one clinical research application. The recipients of the 2024 Early Career Research Seeding Grants are:



Dr Charles Bell

Biomedical Seeding Grant, 'New approaches for drugging the undruggable'.



Dr Bronagh McAlinden

Clinical Seeding Grant, 'Investigating the effect of targeted chest physiotherapy on the resolution of acute lung collapse in mechanically ventilated neonates using Lung Ultrasound'.

Betty McGrath Health Care Delivery and Innovation Seeding Grant

The Betty McGrath Healthcare Delivery and Innovation Seeding Grants have been established to provide seed funding for research that is defined as non-pharmaceutical and non-laboratory-based research, enabling the development of high-quality, evidence-based clinical procedures, technologies and models of care across Mater.

The 2024 recipients of the Betty McGrath Healthcare Delivery and Innovation Seeding Grants are:



Dr Taylan Gurgenci

Leveraging large language models to fix the hospital-to-GP communication crisis.



Dr Hamid Karimi-Rouzbahani

Quantitative evaluation of epilepsy through novel computational cognitive methods.



Mr Matthew Hunt

For women referred to the persistent pelvic pain physiotherapy service, is trans-abdominal irradiation of infrared light feasible and effective for reducing pain and improving quality of life? A proof-of-concept study.



Dr Constanze Schulz

Rebuilding After Birth: A multidisciplinary, multipronged response to birth-related trauma for the parents of Mater Mother's Hospital.



Betty McGrath Education Seeding Grant

The Betty McGrath Education Seeding Grant has been established to provide seed funding for educational focused research that improves teaching and learning outcomes for consumers; reflects best practice, evidence-based teaching and learning and has the potential to translate or is already being translated into improved outcomes in capability and/or service delivery.

The 2024 recipient of the Betty McGrath Education Seeding Grant is:



Ms Alicia Godmon

Enhancing Neonatal and Paediatric Stoma Care Education: A study investigating the impact of simulation in an educational bundle.

Future Leaders Fellowship

Promoting ongoing research excellence at Mater Research is only possible by investing in, developing and retaining the next generation of research leaders.

Mater Research introduced a new funding scheme in 2024, the Future Leaders Fellowship, which aims to support mid-career researchers in leading aspirational and impactful research.

The inaugural recipient of the Future Leaders Fellowship was **Dr Kavita Bisht** from the Stem Cell Biology Research Group, with her project entitled 'Does endotoxemia drive anaemia and disease severity in inflammatory bowel disease?'.

Awards 2024

External Awards



Professor Janet Hardy

Palliative Care Queensland – Life Achievement Award.

Abstract included in the 2024 Best of ASCO® program.



Professor Josephine Forbes

OneTRI Connecting with the Clinic Award.



Dr Kavita Bisht

Australian and New Zealand Society for Immunology (ASI) Inc – Career Advancement Award –Mid Career, ASI Travel Bursary: Mid-Career Award Mid-Career Category Award and ASI Women's Initiative Travel Award.



Associate Professor Lucy Burr

Woman of Influence Award – Lung Foundation Australia.



Ms Rebecca Keating

Poster of Merit – barriers to the annual OGTT, the patient perspective – Australian Cystic Fibrosis conference.



Dr Chloe Yap

International Society for Autism Research Dissertation Award in 2024.



Professor Claire Jackson

Society of Academic Primary Care 2024 prize winner.



Dr Caroline Nicholson

Society of Academic Primary Care 2024 prize winner.

Internal Awards



Associate Professor Jakob Begun

Research Excellence at the Mater People Award



Professor Janet Hardy

Research Excellence at the Mater People Award



MIDAS EASY Health Project Team

Mater Clinical Excellence (Team)



Catherine's House Research Team

Mater Innovator of the Year



Dr Jenny Job

Society of Academic Primary Care 2024 prize winner.



Associate Professor Shelley Wilkinson

2024 Top Altmetric Result for the 2023 Impact Factor Citation Window from Dietitian Australia's Journal, Nutrition & Dietetics. As part of the Healthy Gut Diet Study team, ADIPS 2024 Nutrients Presentation Award.



Dr Siobhan Loughnan

2024 Stillbirth CRE Future Leaders Fellowship.

UQ Faculty of Medicine Excellence Awards – Rising Star of the Year – Commended



Dr Christine Andrews

2024 Stillbirth CRE Future Leaders Fellowship.



Ms Deanna Stuart-Butler

Perinatal Society of Australia and New Zealand, New Investigator Award – Public Health/ Epidemiology - Oral.



Ms Valerie Ah Chee

Perinatal Society of Australia and New Zealand, Indigenous Health Award.



Ms Aleysa Martin

Health Services Research Conference – 3MT® joint winner.



Dr Charles Bell

Early Career Researcher Prize



Ms Nikita Rosendahl

Higher Degree Biomedical Student Prize



Dr Tegan Triggs

Dr Laurence Catley Clinical Student Prize

Awards 2024

Sister Medals



**Associate Professor
Simon Bowler**

Sister Eileen
Pollard Medal



**Associate Professor
Katharine Irvine**

Sister Michaelleen
Ahern Medal



**Associate Professor
Kym Rae**

Sister Regis Mary
Dunne Medal



Ms Alex Judge

Sister Madonna
Josey Medal



Ms Sharyn Grossman

Sister Pauline Mary
Purtill Medal



Ms Davina Smith

Sister Mary Athanasius
Reardon Medal



Mater Research Publication of the Year

Biomedical



Dr Charles Bell

Comparative cofactor screens show the influence of transactivation domains and core promoters on the mechanisms of transcription. *Nature Genetics*, 2024.



Dr Hareshh Sajiir

Pancreatic beta-cell IL-22 receptor deficiency induces age-dependent dysregulation of insulin biosynthesis and systemic glucose homeostasis. *Nature Communications*, 2024.



Associate Professor Sumaira Hasnain

Interleukin-22 suppresses major histocompatibility complex II in mucosal epithelial cells. *Journal of Experimental Medicine*, 2023.



Dr Hareshh Sajiir

Liver and pancreatic-targeted interleukin-22 as a therapeutic for metabolic dysfunction-associated steatohepatitis. *Nature Communications*, 2024.

Clinical



Dr Katie Brooker

"My Autism is Linked with Everything": at the Crossroads of Autism and Diabetes. *Journal of Autism and Developmental Disorder*, 2023.



Dr Jesrine Hong

Prediction of preterm birth in growth-restricted and appropriate-for-gestational-age infants using maternal PlGF and the sFlt-1/ PlGF ratio – A prospective study. *British Journal of Obstetrics and Gynaecology*, 2024.



Ms Aleysa Martin

Does an allied health transdisciplinary stroke assessment save time, improve quality of care, and save costs? Results of a pre-/post-clinical study. *European Stroke Journal*, 2024.



Dr Jesrine Hong

Five-minute Apgar score and risk of neonatal mortality, severe neurological morbidity and severe non-neurological morbidity in term infants – an Australian population-based cohort study. *The Lancet Regional Health – Western Pacific*, 2024.

Outstanding Mater Research Achievements in 2024

Grant funding awarded

Total funding
\$14.7m 

34 
Total number of grants

119 new clinical studies

58 
Clinical trials

42 
Cohort studies

19 
Clinical studies other than clinical trials and cohort studies





Publications

423 
Total number
of publications

261 
Top tier
journals

Education

111 
Current
HDR students

14 
Degrees
conferred



Publications



Total number publications **423**



Mother and Baby



Cancer



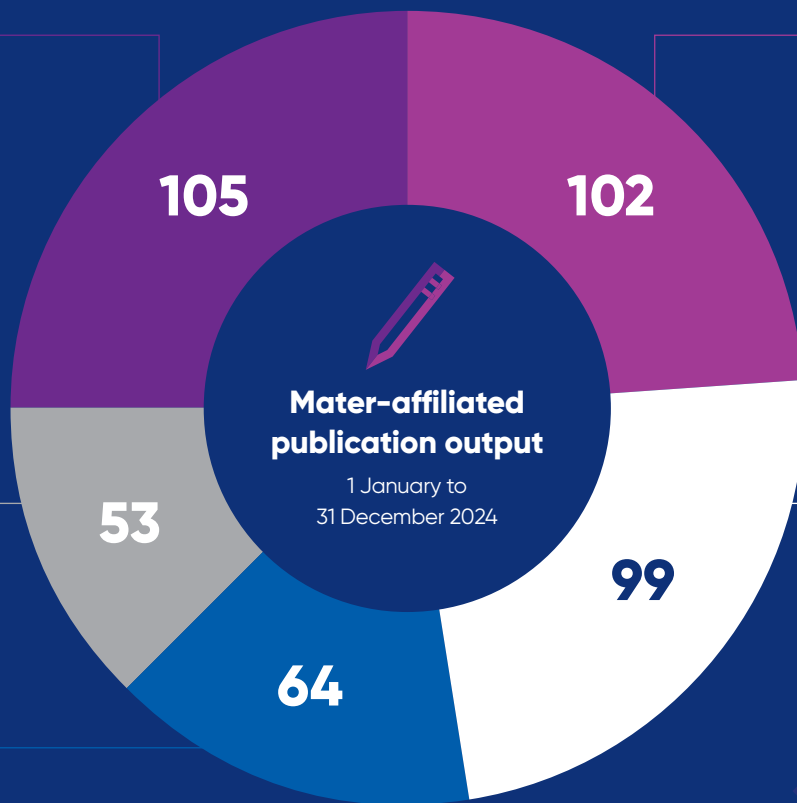
Healthcare Delivery and Innovation



Neuroscience

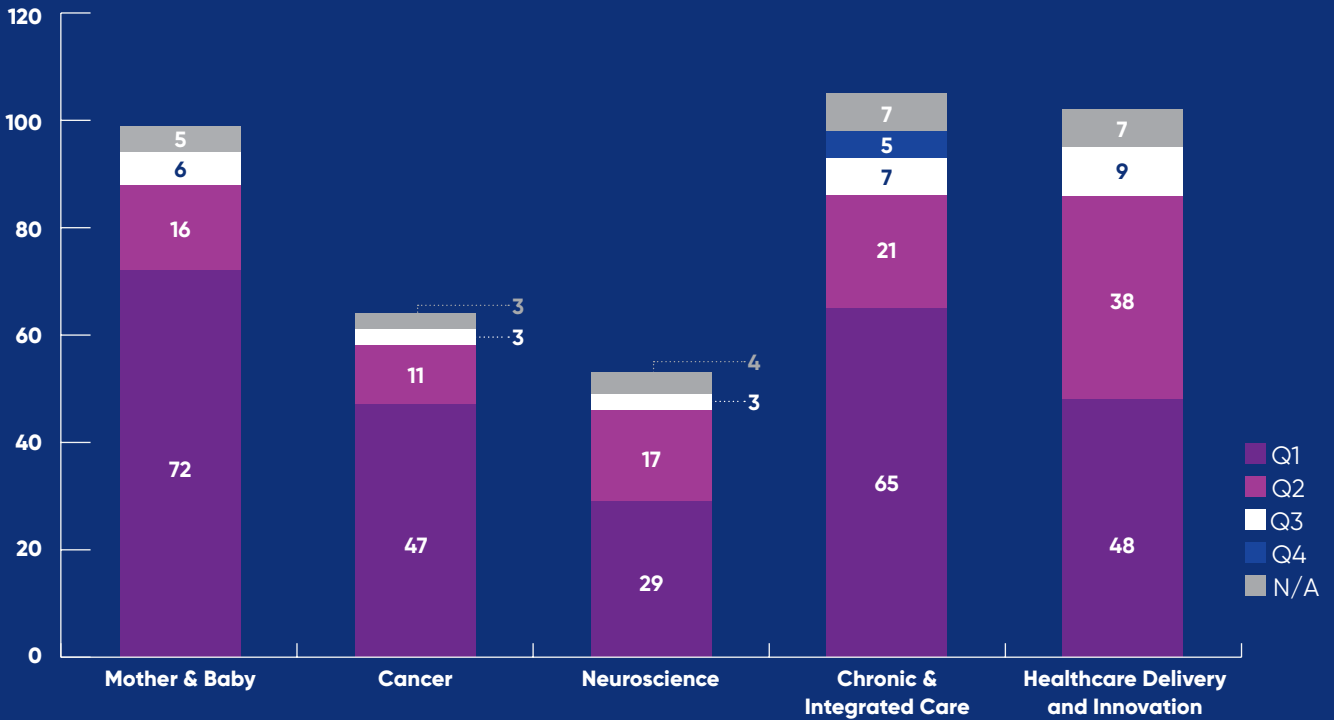


Chronic and Integrated Care



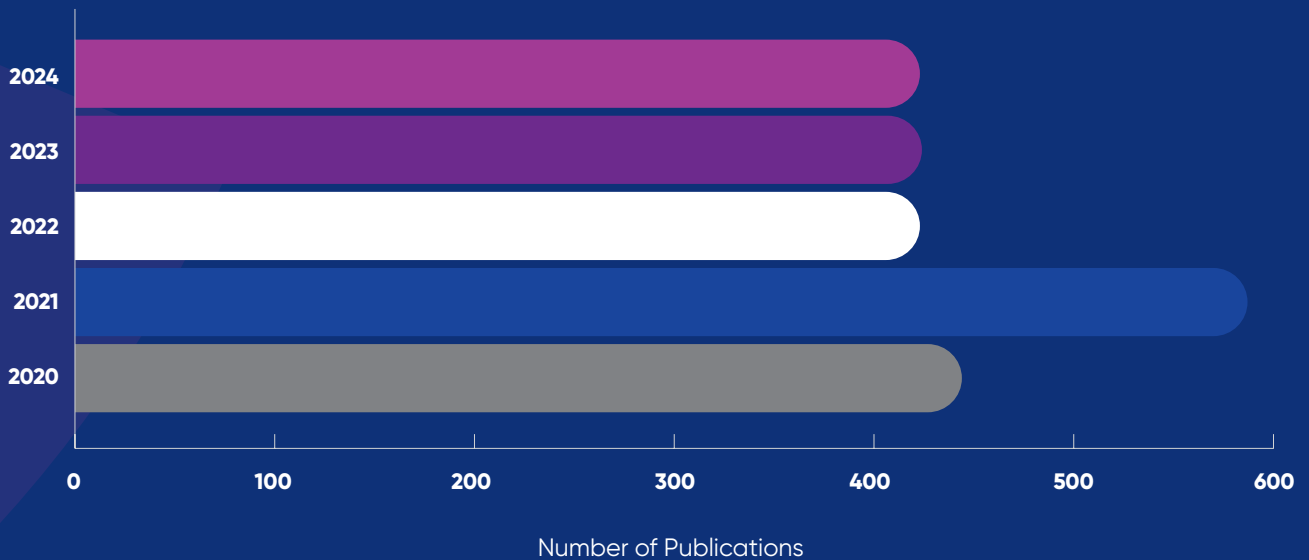
Publication Journal Quality across Research Programs

1 January to 31 December 2024



Historical Comparison of Mater-affiliated Publications

1 January to 31 December 2024



Publication list in full

- 1 A Adhikary, S., Gillespie, K., Kimball, H., Healey, L., Webb, O., Balram, A., & Branjerdporn, G. (2024). *A systematic review of research examining mothers, infants, family and staff in psychiatric mother-baby units*. *Acta Psychiatrica Scandinavica*. doi:10.1111/acps.13727
- 2 Ahmedt-Aristizabal, D., Armin, M. A., Hayder, Z., Garcia-Cairasco, N., Petersson, L., Fookes, C., . . . McGonigal, A. (2024). *Deep learning approaches for seizure video analysis: A review*. *Epilepsy and Behavior*, 154. doi:10.1016/j.yebeh.2024.109735
- 3 Akyüz, F., An, Y. K., Begun, J., Aniwani, S., Bui, H. H., Chan, W., . . . Ooi, C. J. (2024). *Optimizing 5-aminosalicylate for moderate ulcerative colitis: expert recommendations from the Asia-Pacific, Middle East, and Africa Inflammatory Bowel Disease Coalition*. *Intest Res*. doi:10.5217/ir.2024.00089
- 4 Alexander, K. A., Tseng, H. W., Lao, H. W., Girard, D., Barbier, V., Ungerer, J. P. J., . . . Lévesque, J. P. (2024). *A glucocorticoid spike derails muscle repair to heterotopic ossification after spinal cord injury*. *Cell Reports Medicine*, 5(12). doi:10.1016/j.xcrm.2024.101849
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