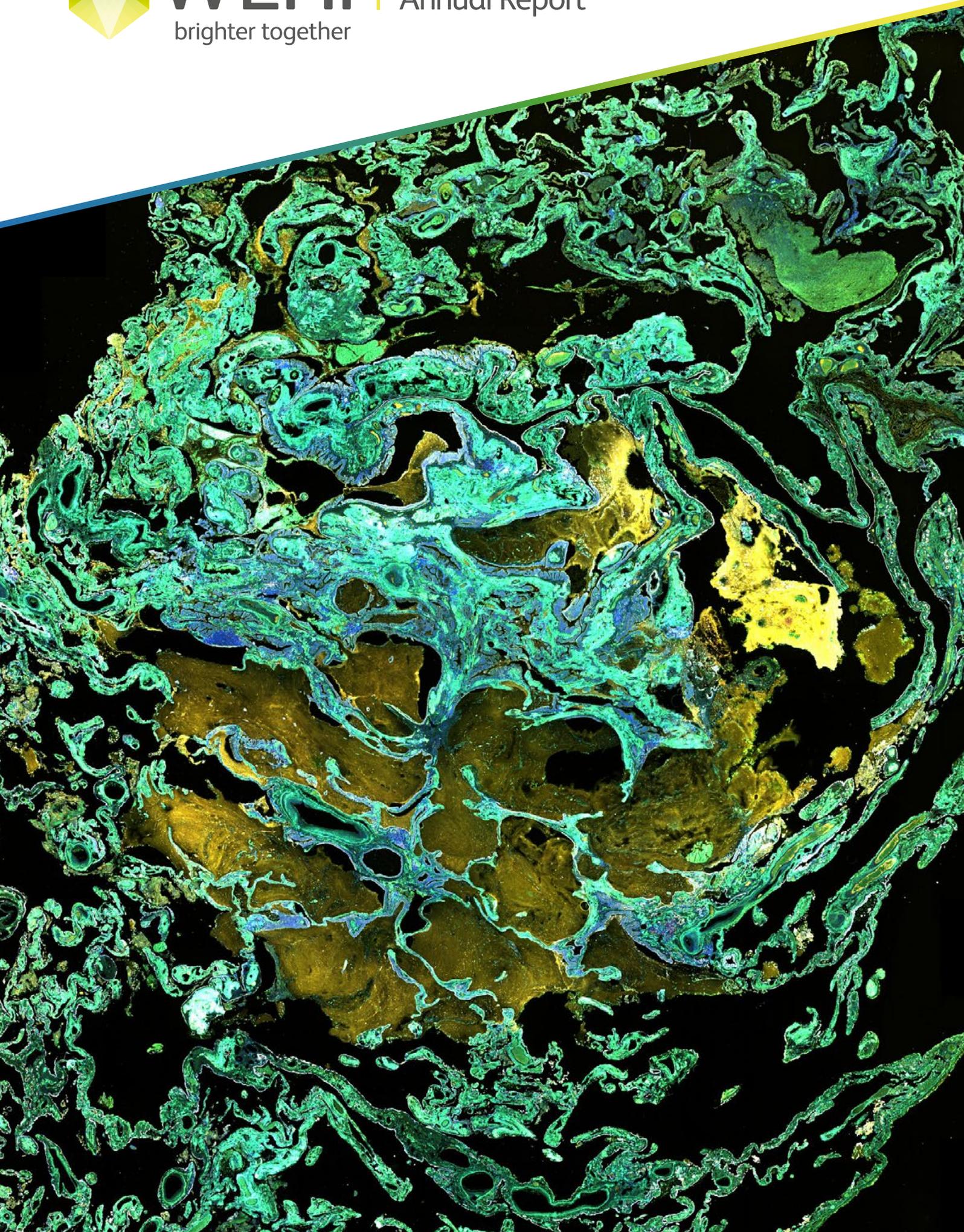




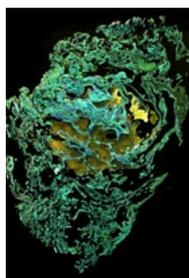
WEHI
brighter together

2022
Annual Report



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Cover image

2022 Art of Science finalist
Against the Grain
Kristy Shield-Artin and Suzan Sam

This multiplex immunohistochemistry image shows a rare mucinous lung tumour from a 'super-survivor' who has had three unrelated primary cancers in her lifetime. Researchers are working to identify factors that slow cancer progression in this small but remarkable group of individuals, as part of the WEHI Stafford Fox Rare Cancer Program (see page 18).

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Produced by WEHI's Communications and Marketing department

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Sir Gustav Nossal AC CBE
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FRACOG(Hon) FRCPATH FRACGP FRSE FTSE FAA FRS FAHMS

WEHI acknowledges the Traditional Owners and custodians of the land on which our campuses are located, the Wurundjeri people of the Kulin Nation. We pay our respects to their Elders past and present and embrace their continued connection to Country and community.

About WEHI

1300+
staff and students

90+
consumer advisors

16 scientific divisions

90+ laboratories

WEHI is where the world's brightest minds collaborate and innovate to make discoveries that will help us to live healthier for longer.

Our medical researchers have been serving the community for more than 100 years, making transformative discoveries in cancers, infectious and immune diseases, developmental disorders and healthy ageing.

WEHI brings together diverse and creative people with different experience and expertise to solve some of the world's most complex health problems.

The spirit of collaboration is in our DNA. WEHI was established by a partnership between the University of Melbourne, the Royal Melbourne Hospital and the Walter and Eliza Hall Trust, bringing together the brightest research minds from across the globe, remarkable clinicians focused on the health of the community and the power of philanthropy.

Our passion for improving lives drives us forward, even when breakthroughs are decades in the making. We are brighter because of our collaborations with hospitals, universities, research institutes and industry, and the support of our community, including philanthropists, donors, bequestors, alumni and consumers.

At WEHI, we are ***brighter together.***

Our research

Cancer – understanding the basic processes that are disrupted to generate cancer cells and how these can be targeted to treat disease.

Immune health and infection – discovering how the body fights infection and how errors in the immune system lead to disease.

Development and healthy ageing – studying how the biological foundations laid down during gestation and childhood affect development and how our longer life expectancy presents new challenges for our ageing population.

New medicines and advanced technologies – a powerful hub for cutting-edge technologies underpinning biomedical discoveries and for the translation of these discoveries into new medicines and diagnostics.

Computational biology – developing and applying new tools to analyse the genomes of disease-causing parasites, as well as better understanding the immune system and genetic drivers of cancer.

Our mission

Mastery of disease through discovery

Our vision

To be an innovative medical research institute that engages and enriches society and improves health outcomes through discovery, translation and education

Our values

- Pursuit of excellence
- Integrity and mutual respect
- Collaboration and teamwork
- Creativity
- Accountability
- Contribution to society

President's report

It is again my great privilege as president to present WEHI's annual report for 2022.

I have been delighted and inspired by the work and achievements of WEHI's scientific and professional services staff, and by the passion and curiosity of our students, even as the COVID-19 pandemic continued to present significant challenges.

As always, the focus of the WEHI Board and senior leaders has been to position WEHI for ongoing long-term success – culturally, economically and environmentally – and to ensure the safest and most productive environment possible to support our researchers and their mission.

I would like to express my sincere thanks to Peter Collins, who resigned from the board in February 2022 to take up a new role as WEHI's Head, Research Integrity and Ethics (Specialist). While we're sorry to lose him from the board, it's exciting that WEHI continues to benefit from Peter's experience, perspective and wisdom.

I also extend a warm welcome to Dr Angeli Weller and Geoff Roberts, who joined the WEHI Board in February and September respectively.

Angeli is a passionate advocate for integrity, inclusivity and innovation in business and has broad and deep experience in helping organisations build ethical cultures and improve their social and environmental impacts. Her experience will be of great value as WEHI continues to enhance its research impact and builds on activities that promote sustainability.

Geoff brings a wealth of experience in strategic financial management, leadership and governance, as a chief financial officer and managing director, and as a board member with the not-for-profits Reach Foundation and Vision Australia. He is well placed to help WEHI achieve our goals and to support effective financial oversight.

The board recognises the importance of WEHI's commitment to environmental sustainability and to advocating for mitigation of climate change and the threats it poses to health globally. This commitment was

reflected in WEHI joining the Climate and Health Alliance, Australia's peak body on health and climate change, in 2022.

It was wonderful for many of our WEHI community to join Sir Gustav Nossal, former director (1965-1996) and honorary governor and patron, for a belated celebration of his 90th birthday at a gala dinner in the Great Hall of the National Gallery of Victoria, and a special afternoon tea in the familiar surrounds of the WEHI Parkville tearoom.

It was also my great pleasure to attend the launch of Art of Science and meet our artist-scientists in person as we celebrated the 25th anniversary of this iconic competition and exhibition, with guest judge Corey Tutt OAM, CEO and Founder of DeadlyScience, joining us online from Biripi country in NSW.

"Brighter together" isn't only a tagline at WEHI, it's a core value. Our continued success would not be possible without the contributions of our generous supporters and donors, and the partnership of our many collaborators, both individual and institutional. On behalf of the board, I thank all those who contributed in 2022.

And of course, I extend my deepest thanks and admiration to our research and professional services teams and the entire WEHI community for their continued passion and commitment.



Jane Hemstrich AO
President, WEHI



Director's report

I'm proud to share this record of another year of achievements in research, discovery and translation at WEHI. Once again, our response to the challenges posed by the COVID-19 pandemic demonstrated not only WEHI's ability to do great science but also the dedication, resilience and supportiveness of our people.

Adjusting to the "new normal" has involved a huge effort to adapt and improve the way we work. Ethical, social and environmental standards have also evolved across the community, giving us an opportunity to push ourselves further, guided by WEHI's values. I thank all those who've helped make hybrid and flexible work not only possible but, moreover, successful.

We truly are "brighter together" and none of WEHI's work would be possible without the active support of our wonderful donors, philanthropists and community fundraisers. Our close connections and collaborations with research institutes, universities, hospitals, industry partners and our neighbours across the Melbourne Biomedical Precinct also remain critical to our success.

Highlights of key scientific achievements in 2022 included:

- the first National Conference of The Brain Cancer Centre and the launch of a world-first perioperative brain cancer clinical trial platform
- important discoveries and advances in COVID-19, gene silencing, colon cancer, malaria and diabetes
- significant national awards and honours for deputy director Professor Alan Cowman, Professor Clare Scott and Professor Sant-Rayn Pasricha, among many others.

The visit to WEHI by the Prime Minister Anthony Albanese, Minister for Health and Aged Care Mark Butler and Assistant Minister for Health and Aged Care Ged Kearney provided a fantastic opportunity to showcase our research talent and facilities and demonstrate the impact of medical research in addressing global health challenges.

I'd like to thank former federal and Victorian ministers Greg Hunt and Jaala Pulford respectively for their support, and welcome Mark Butler as the new federal minister and Mary-Anne Thomas as the new Victorian Minister for Health, Health Infrastructure and Medical Research.

I also acknowledge the leadership and foresight of the CEO of the NHMRC, Professor Anne Kelso. Gender inequity has plagued our sector for generations and the systemic change to our premier grant scheme, which will now support equal numbers of men and women, is a crucial step forward.

It was my privilege to host a Director's Seminar to mark International Pronouns Day and to be part of the Champions of Change Coalition 2022 Impact Report, highlighting the many ways WEHI is taking action to accelerate gender equality. Our commitment to advancing reconciliation was exemplified by our new partnership with DeadlyScience, to help foster the next generation of First Nations scientists.

Commercial alliances we formalised during 2022 will help steer WEHI into a positive future. WEHI spinout Accrue Therapeutics merged with Boston-based Entact Bio, and Cicada Innovations was appointed to manage our new biotech start-up incubator, a partnership between WEHI, CSL and the University of Melbourne.

Finally, we were delighted to be able to return to holding in-person events during 2022. It was particularly special for me to be able to reconnect personally with WEHI Alumni in Europe and to welcome donors and volunteers to WEHI to acknowledge their support.

I take this opportunity to thank each and every member of the WEHI community for their contributions to a wonderful year.



Professor Doug Hilton AO
Director, WEHI



Exceptional science and people

The year in research

484
scientific publications

87
grants awarded

\$100.8M
grant income

Innovation and translation

460+
active patents

30+
commercial partnerships
translating WEHI research

390+
clinical trials based on
WEHI discoveries

“Science is one of the keys to Australia’s future.”

Prime Minister Anthony Albanese at WEHI, July 2022



WEHI was honoured to welcome Prime Minister of Australia Anthony Albanese, Minister for Health and Aged Care Mark Butler and Assistant Minister for Health and Aged Care Ged Kearney in July 2022.

January



L-R: Dr Thomas Cotton, Dr Bernhard Lechtenberg

Enzyme imaging first

Researchers captured the first molecular images of an enzyme linked to a rare group of hereditary neurodegenerative diseases. The enzyme RNF216 adds a specific type of ubiquitin chain to proteins, instructing them how to behave. The team identified how mutations in the enzyme can cause a protein to malfunction or stop working altogether. Their research could help explain the mystery cause of rare neurodegenerative disorders, including Gordon Holmes and Huntington's disease-like syndromes.

February

Molecular 'culprit' drives cell death, inflammation

A landmark study identified nitric oxide as a killer molecular "culprit" responsible for causing damaging levels of cell death and inflammation in the body. The findings could lead to improved treatment options for a range of conditions driven by inflammatory cell death, including SARS-CoV-2 (the COVID-19 virus).



L-R: Associate Professor James Vince, Daniel Simpson, Dr Rebecca Feltham

March



Dr Stephin Vervoort

Snow Fellowship honour

Dr Stephin Vervoort received a prestigious \$8 million Snow Fellowship from the Snow Medical Research Foundation in Australia to investigate new treatments for cancers like leukaemia. The funding supports research exploring how malfunctions in the enzyme RNA polymerase II fuel aggressive cancer growth, with the ultimate goal of developing drugs that can stop this enzyme going rogue. The Snow Fellowships are the largest philanthropic investment in Australia fostering upcoming and talented biomedical researchers.

March

Gottschalk Medal for vital cellular research

The Australian Academy of Science's 2022 Gottschalk Medal for emerging leaders of Australian medical science was awarded to Dr Alisa Glukhova. Her research works to understand how cells function and respond to external and internal signals in order to find improved treatments for a range of conditions including heart disease and cancer.



Dr Alisa Glukhova

March



Professor Andrew Roberts AM

Blood cancer collaboration

A team of blood cancer experts led by Professor Andrew Roberts AM received the Fiona Stanley Award for the highest ranked NHMRC Synergy Grant. The \$5 million grant will advance research into why some blood cancers become resistant to treatment. A major collaboration with the Peter MacCallum Cancer Centre, the Royal Melbourne Hospital, The Alfred, the University of Melbourne and Monash University, the five-year program aims to improve outcomes for patients with leukaemias, lymphomas and myeloma.

March

Single-cell focus

A \$3.5 million grant from the Australian Cancer Research Foundation supported the new ACRF Program for Resolving Cancer Complexity and Therapeutic Resistance at WEHI, with 19 experts in blood, breast, lung, ovarian, pancreatic and skin cancers working to better understand cancer complexity and treatment resistance at a single-cell level. The grant enabled the purchase of cutting-edge equipment housed in WEHI's imaging and genomics facilities, including one of Australia's first MIBIScope machines.



April



L-R: Dr Andrew Keniry, Professor Marnie Blewitt

DNA 'accordion effect'

In a study transforming the fundamentals of what we know about gene silencing, researchers revealed how an "accordion effect" is critical to switching off genes. The finding expands our understanding of how genes are switched on and off to make different cell types during pre-natal development. It also offers a new way to potentially harness gene silencing in future, to treat or reverse the progression of a broad range of diseases including cancer, congenital and infectious diseases.

May

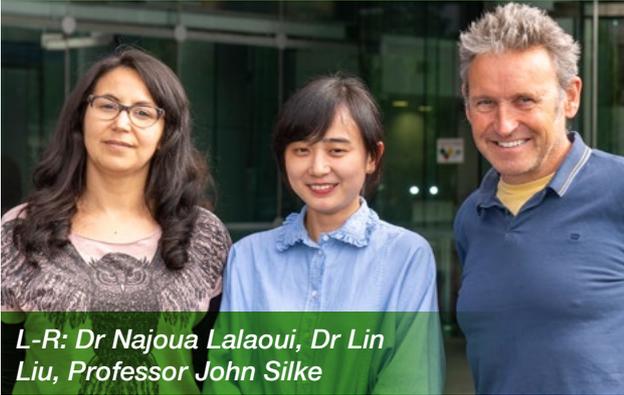
Identifying babies at risk of brain bleeds

A new way to help identify babies and fetuses at high risk of developing brain bleeds could pave the way for better early intervention. The findings on platelet levels may help determine which babies can safely receive treatment after birth, transforming platelet transfusion practices and avoiding unnecessary and risky procedures.



L-R: Dr Samir Taoudi, Dr Alison Farley

May



L-R: Dr Najoua Lalaoui, Dr Lin Liu, Professor John Silke

Sweet discovery

A WEHI-led international team revealed how a key enzyme uses a “sugar tag” to prevent excessive cell death, in research that could lead to better treatment options for inflammatory-driven infections, viruses and cancers. The landmark discovery offers another way to regulate the cell death process for diseases like psoriasis and inflammatory bowel disease – conditions that occur due to excessive cell death in the body – and could also help in future to reduce the severity of viruses like SARS-CoV-2, responsible for COVID-19.

May

Industry fellowship bridges drug development gap

Malaria researcher Dr Paola Favuzza received an MTPConnect Researcher Exchange and Development within Industry (REDI) fellowship, providing her with vital experience to help bridge the gap between basic research and clinical trials. The fellowship supports a 12-month project with Medicines for Malaria Venture (MMV) in Switzerland.



Dr Paola Favuzza

May



L-R: Dr Anthony Hodder, Professor Alan Cowman

Malaria revolution

Revolutionary 3D images enabled researchers to understand how new anti-malaria compounds kill malaria parasites, paving the way for the next generation anti-malarial treatments. Malaria infections are driven by *Plasmodium* parasites that enter the bloodstream and destroy red blood cells. WEHI researchers, in collaboration with Merck Sharp & Dohme (MSD), captured the first three-dimensional images that reveal how compounds work to stop the parasites from spreading in the blood.

May

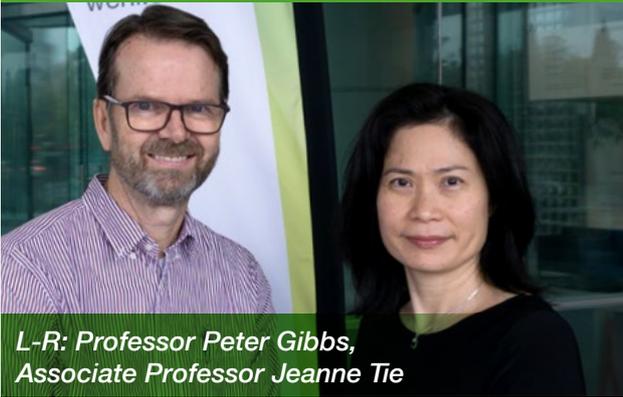
Game-changing technology

Researchers boosted pioneering technology to show whether potential treatments are worth progressing into human trials, in a game-changing move that could dramatically reduce high failure rates in drug discovery and development. The WEHI-led team used protein degrader technology to test the efficacy and safety of drugs by better mimicking clinical settings, with a collaborative Australian project already using the system to establish promising drug targets for a range of hard-to-treat cancers.



L-R: Dr Rebecca Feltham, Dr Charlene Magtoto

June



L-R: Professor Peter Gibbs, Associate Professor Jeanne Tie

Sparing colon cancer patients from chemotherapy

Our scientists showed for the first time that a blood test can identify colon cancer patients who need chemotherapy after surgery and those who can safely be spared chemo. A clinical trial found the circulating tumour DNA (ctDNA) test, co-developed by WEHI, can accurately predict the risk of cancer recurrence.

June

Queen's Birthday honour

Rare cancer researcher and clinician Professor Clare Scott was recognised in the 2022 Queen's Birthday Honours List and appointed a Member of the Order of Australia (AM), one of Australia's highest civilian honours. The honour recognises over 25 years of dedication and achievement in researching rare cancers and significant service to gynaecological oncology, reflecting decades of teamwork and collaboration with her clinical and scientific colleagues and expert consumers.



Professor Clare Scott AM

June



L-R: Dr Ashleigh Davey, Associate Professor Matthew Call, Associate Professor Melissa Call, Dr Nick Chandler

Reducing toxic side-effects of immunotherapy

An Australian-Israeli research team developed a way to reduce the toxic side-effects of pioneering cancer treatment, CAR T cell immunotherapy. About half of patients suffer adverse effects from the therapy but the findings could overcome this limitation by tailoring the immune cells used in the treatment.

June

Mapping immune cell energy sources sparks rethink

Researchers discovered that lung cancer and immune cells rely on the same energy sources to thrive, triggering a fundamental rethink of treatment options for patients. They found a combination of metabolic and immune treatments used in clinical trials for lung adenocarcinoma – a common form of lung cancer – may not be beneficial to patients.



L-R: Associate Professor Kate Sutherland, Dr Sarah Best

July



L-R: Dr Marcel Doerflinger, Associate Professor Gabrielle Haeusler, Professor Marc Pellegrini

Kids with cancer at risk of lethal infections

A landmark WEHI-led study identified child cancer patients at the greatest risk of developing life-threatening infections, in a crucial step towards the development of an early diagnostic test. The discovery could prevent thousands of low-risk cancer patients receiving unnecessary antibiotics and potentially disrupting their chemotherapy.

August

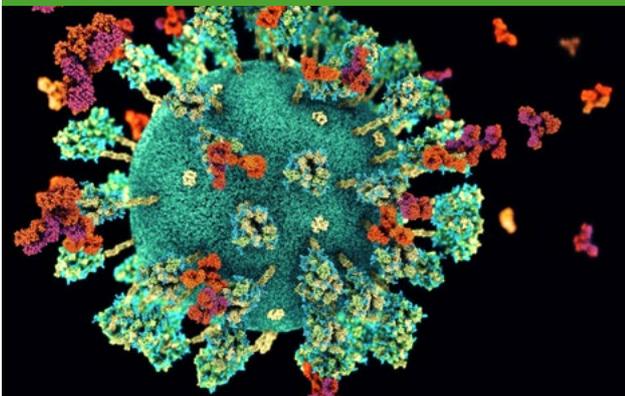
Academy recognition

Researcher and haematologist Professor Sant-Rayn Pasricha received an Australian Academy of Health and Medical Sciences award for his pioneering contributions to preventing and treating anaemia. He received the Jian Zhou Medal for his work leading international trials for iron-deficient children and pregnant women in Bangladesh and Malawi. The WHO has translated his research into health policies in over 50 countries, aiming to halve the global prevalence of anaemia by 2025.



Professor Sant-Rayn Pasricha

August



Funding boost for home-grown COVID-19 treatment

A multi-disciplinary team's research on an antiviral therapy for COVID-19 was boosted with almost \$1 million in funding from the Medical Research Future Fund. The WEHI-led drug discovery program aims to develop a powerful therapeutic combination targeting two proteins that help the virus replicate, to fight antiviral resistance.

August

Parkinson's risk factors

Professor Melanie Bahlo's laboratory was awarded funding from The Michael J. Fox Foundation for Parkinson's Research and partner Shake It Up Australia Foundation for Parkinson's Research, to identify and measure novel risk factors for the disease. The funding supports a collaborative team from WEHI and the Garvan Institute of Medical Research in developing new and improved methods to estimate mitochondrial dysfunction and genetic risk factors in patients with Parkinson's disease.



Professor Melanie Bahlo

August



L-R: Professor Magdalena Plebanski (RMIT), Professor Clare Scott, Dr Cassandra Vandenberg

Ovarian cancer vaccine

Research working towards the development of vaccines to stop ovarian cancer recurring was bolstered through Victorian Government funding. The grant from the Victorian Medical Research Acceleration Fund will help accelerate the clinical translation of a groundbreaking ovarian cancer trial co-led by WEHI and RMIT University. The trial aims to understand the biology of ovarian cancer “super-responders”, particularly their immune responses, to learn how more women can benefit from treatment.

September

Improving biomedical data

In a major computational biology study, WEHI researchers demonstrated a new technique to remove unwanted variation from biomedical data. The method can remove artifacts that cause errors or missed discoveries, improving scientific reproducibility. It can also combine datasets, helping create big data for AI research. The team showed how the method can help clean data from The Cancer Genome Atlas, a major dataset with information on 10,000 tumours from 33 forms of cancer.



September



L-R: Professor Marco Herold, Dr Sarah Diepstraten, Dr Yexuan Deng, Associate Professor Gemma Kelly

Landmark tech for mimicking human disease

A powerful new genome editing technique enabled our researchers to replicate human diseases with unprecedented accuracy, promising to revolutionise the drug discovery process for a range of cancers. The technology can activate any gene, allowing new drug targets and causes of drug resistance to be explored on an unmatched level.

September

Precision medicine advance

An international team of researchers and clinicians, led by WEHI, received over \$2.5 million from the Medical Research Future Fund for a genomics project to advance precision medicine and personalised cancer treatment. The project aims to address barriers to the use of genomic data in clinical care, and to gain new insights into blood, breast and ovarian cancers. A focus on rapid clinical translation will help clinicians use information from the latest genomic research to improve patient health.



L-R: Dr Matthew Wakefield, Dr Belinda Phipson, Dr Alan Rubin

September



L-R: Dr Vanessa Bryant, Associate Professor Misty Jenkins, Dr Charlotte Slade

Boost to First Nations health

A new network was established to advance the benefits from genomic medicine for Aboriginal and Torres Strait Islander peoples, after winning support under the Medical Research Future Fund. WEHI researchers are co-leading the Victorian node of the five-year project, worth almost \$5 million, which will see researchers, genetic health services, Aboriginal and Torres Strait Islander community-controlled health organisations and industry partners unite to empower First Nations leadership in genomic medicine for the future.

October

Support for collaborative brain cancer research

A collaborative research program to deliver new treatments for glioblastoma, the most common and deadliest type of brain cancer, was supported through \$4.6 million from the Medical Research Future Fund. The program brings together clinicians and researchers from WEHI, The Brain Cancer Centre and five other research partners.



October



L-R: Dr Miles Horton, Professor Phil Hodgkin

Cells play ‘molecular roulette’ to fight disease

A discovery about how cells decide which antibody to make revealed the surprisingly random way that the body’s immune system defends against infection and disease. Researchers created a mathematical formula for predicting the antibody allocation process, to help understand why some people are biologically prone to certain diseases.

October

Liver disease discovery

A WEHI-led team of researchers revealed that common liver diseases, including non-alcoholic fatty liver disease and hepatitis B, are not driven by inflammatory cell death as previously thought. Their unexpected finding – that liver cells are unable to undergo an inflammatory form of cell death called necroptosis – resolves a long-standing controversy in the gastroenterology field and will help guide the development of new therapeutic interventions.



L-R: Dr Simon Preston, Dr Marcel Doerflinger, Professor Marc Pellegrini

October



L-R: Dr Sarah Best, Dr Jim Whittle, Dr Saskia Freytag

Brain-POP trial platform

A world-first clinical trial platform to transform research into new therapies for brain cancer and deliver more targeted, personalised treatment for patients was launched. The Brain-POP platform is led by The Brain Cancer Centre and partners WEHI, the Royal Melbourne Hospital, Peter MacCallum Cancer Centre, the Royal Children's Hospital and the University of Melbourne, with \$16 million in support from the Victorian Government. Globally, it's the first perioperative clinical trial program for brain cancer.

November

Data science fellowship

Bioinformatics and genomics expert Professor Matthew Ritchie was awarded an MTPConnect Researcher Exchange and Development within Industry (REDI) fellowship for a 12-month project within the Data Science team at global biotech leader CSL. The project involves the evaluation of cutting-edge genomic technologies, with a view to fast-tracking the deployment of these technologies in CSL's pre-clinical research programs to accelerate target validation, biomarker discovery and drug development.



Professor Matthew Ritchie

November



Dr Georgia Atkin-Smith

L'Oréal-UNESCO honour for cell biology trailblazer

Postdoctoral researcher and cell biologist Dr Georgia Atkin-Smith was honoured with a L'Oréal-UNESCO For Women in Science fellowship for her exceptional contributions to the field of cell death. She received funding to support her research examining how cell death and the removal of dying cells contribute to inflammatory disease.

November

Home diabetes screening test prevents serious illness and hospitalisation

A study from a WEHI-Royal Melbourne Hospital research team found a blood test for early diagnosis of type 1 diabetes can prevent serious illness and hospitalisation in children. The team has now adapted the test to be done at home and mailed to a lab to improve access, deliver results sooner and start treatment before children become unwell.



Associate Professor John Wentworth

November



Dr Ashley Ng

Metcalfe Prize awarded to stem cell pioneer

Dr Ashley Ng was named a winner of the 2022 Metcalfe Prize for Stem Cell Research in recognition of his pioneering work with stem cells to fight blood cancers. Awarded by the National Stem Cell Foundation of Australia, the Metcalfe Prizes honour WEHI luminary, the late Professor Donald Metcalfe AC.

November

Venture Grants support brightest cancer researchers

Three innovative projects received funding through Cancer Council Victoria's Venture Grants initiative, which aims to support the state's brightest cancer researchers. Researchers will investigate whether COVID-19 affects cancer risk, how to activate immune cells against tumours, and new ways to improve neurosurgery for brain cancer.



L-R: Dr Sarah Best, Associate Professor Gemma Kelly, Associate Professor Marie-Liesse Asselin-Labat

November



Professor Alan Cowman AC

CSL Florey Medal

The CSL Florey Medal was awarded to Professor Alan Cowman AC for his instrumental contributions in understanding how malaria infects and causes disease in humans. His research has supported the development of potential vaccines, as well as the discovery of novel antimalarial compounds. Spanning over 30 years, his distinguished career dedicated to malaria research has enabled a greater understanding of the disease, underpinning the diverse needs of programs working towards elimination and eradication.

December

Insulin-mimicking molecule a diabetes advance

Researchers visualised how a non-insulin molecule can mimic the role of insulin, in a study that answered a 100-year-old question in diabetes research. Their findings provide important insights for the future development of an oral insulin pill that could replace daily insulin injections for people with type 1 diabetes.



L- R: Professor Mike Lawrence, Dr Nicholas Kirk, Mai Margetts

Thank you to our supporters

Your support allows our researchers to advance critical research and translate their discoveries into disease diagnosis, prevention and treatment for the benefit of the whole community.

Below is a list of our generous gifts and grants of \$10,000 or more received in 2022.

A full list of gifts, grants and bequests of \$1000 or more can be found on our website.

Centenary donors

Anonymous (3)
Bodhi Foundation
Brian M Davis Charitable Foundation
CSL Limited
David Winston Turner
Endowment Fund
DHB Foundation
Estate of Marion Page
Estate of Peter and Julie Alston
Estate of Ellen Corin
Professor Gordon K Smyth
Jane Hemstritch AO
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Robert Connor Dawes Foundation
The Alfred Felton Bequest
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The Stafford Fox Medical
Research Foundation
The University of Melbourne
The Walter and Eliza Hall Trust
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Gifts

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Andrea and Geoff Gowers
AWM Electrical
6A Foundation
Bayley-Grosz Family
Berwick Opportunity Shop
Besen Family Foundation
Bodhi Foundation

Generous gift supports genomics research

In late 2022, WEHI received a generous gift from the Estate of Renate Harding – The Harding-Stern Bequest – in memory of Renate's husband Kenneth Harding, and parents Charlotte and Walter Stern. Renate spent her life working in public health, and her bequest will enable WEHI to advance our medical discoveries by supporting state-of-the-art microscopy and genomics research.



Dr Rory Bowden,
Head of WEHI's Advanced
Genomics Facility

The Dyson Bequest
 The Harry Secomb Foundation
 The HMA Foundation
 The Isabel and John Gilbertson Charitable Trust
 The LMH Trust
 The McPhee Charitable Trust
 The Roebuck Foundation
 The Stafford Fox Medical Research Foundation
 The Valda Klaric Foundation
 The Veith Foundation
 The Yulgilbar Foundation
 TMG Family Fund
 Trevor Taylor and Donna Taylor
 Trujon Investment Holdings Pty Ltd
 Two Sisters Foundation
 Vinta Investment Management Pty Ltd
 Dr William Huffam
 Yvonne Clements
 Yvonne Gray

International grants

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 Bill and Melinda Gates Foundation
 Breast Cancer Research Foundation
 Chan Zuckerberg Initiative
 Foundation for Prader Willi Research
 FSHD Society
 International Lung Cancer Foundation

Leslie and Rainey Norins/Collier Community Foundation
 Leukemia & Lymphoma Society
 Michael J. Fox Foundation for Parkinson's Research
 National Institutes of Health (NIH)
 Rivkin Center
 Stand Up To Cancer
 The International Human Frontier Science Program Organization
 United States Department of Defense
 Wellcome Trust
 Worldwide Cancer Research

Australian Government grants

Australian Academy of Science
 Australian Centre of Research Excellence in Malaria Elimination (ACREME)
 CSIRO
 Department of Health
 Medical Research Future Fund (MRFF)
 National Health and Medical Research Council (NHMRC)

Victorian Government grants

veski
 Victorian Cancer Agency (VCA)
 Victorian Department of Jobs, Skills, Industry and Regions

Australian grants

Anonymous (2)
 Annemarie and Arturo Gandioli-Fumagalli Foundation
 Arthritis Australia
 Australasian Gastro-Intestinal Cancer Trials Group (AGITG)
 Australian Cancer Research Foundation (ACRF)
 Australian China Education Foundation
 Australian Lions Childhood Cancer Research Foundation
 Australian Respiratory Council
 Breast Cancer Trials
 Cancer Australia
 Cancer Council NSW (CCNSW)
 Cancer Council Victoria (CCV)
 Carrie Bickmore's Beanies 4 Brain Cancer Foundation
 CF Leung Memorial Trust
 Coeliac Australia
 Colonial Foundation Limited
 CSL
 Cure Brain Cancer Foundation
 DHB Foundation
 Diabetes Australia
 Drakensberg Trust
 Erica Foundation Pty Ltd
 FightMND
 Flicker of Hope Foundation
 Geok Hua Wong Charitable Trust
 Haematology Society of Australia and New Zealand
 Harold & Cora Brennen Benevolent Trust
 Isabella and Marcus Foundation
 Joe White Bequest
 Juvenile Diabetes Research Foundation, Australia
 K & M Foundation for Women
 L.E.W. Carty Charitable Fund
 Leukaemia Foundation
 Lions Australia Diabetes Foundation
 L'Oréal Foundation For Women in Science
 Marlene Austin Trust
 Michael Keith Halprin Fund
 MS Research Australia
 National Breast Cancer Foundation

The power of sisterhood

Sisters Lisa Bardas (left) and Ellie Rogers (right) created the Two Sisters Foundation in 2019 after Ellie was diagnosed with breast cancer. Their mission is to help deliver real medical solutions to ensure quality and longevity of life for those impacted directly or indirectly by breast and ovarian cancers. The foundation supports BRCA-related breast cancer research led by WEHI's Professor Jane Visvader and Professor Geoff Lindeman.



Our supporters

National Foundation for Australia-China Relations
National Stem Cell Foundation of Australia
Norman Ann and Graeme Atkins Charitable Trust
Ovarian Cancer Research Foundation
Percy Baxter Charitable Trust
Rebecca L. Cooper Medical Research Foundation
Robert Connor Dawes Foundation
Royal Australasian College of Physicians
Royal College of Pathologists of Australasia
The Alfred Felton Bequest
The Barbara Luree Parker Foundation
The CASS Foundation
The Galbraith Family Charitable Trust - The Donaldson Bequest
The Harry Secomb Foundation
The Jack Brockhoff Foundation
The Jakob Frenkiel Charitable Trust
The Margaret Walkom Bequest
The Marian and E. H. Flack Trust
The Medical Advances Without Animals Trust (MAWA)
The Norman Beischer Medical Research Foundation
The Scobie & Claire Mackinnon Trust

The Sylvia and Charles Viertel Charitable Foundation
The Terry and Maureen Hopkins Foundation
The Thomas William Francis & Violet Coles Trust
The Walter and Eliza Hall Trust
The William Angliss (Victoria) Charitable Fund
Zoe's Fight Foundation Inc

Gifts in Wills

Anonymous (2)
Agnes Maude Reilly Charitable Trust
Albert H Maggs Charitable Trust
Estate of Ann Lang
Estate of Betty Deller King
Estate of Christopher Hibbert
Estate of Desmond Edward Sheehan
Estate of Eleanor Margrethe Albiston (The Strang Bequest)
Estate of Emily Vera Winder
Estate of Ethel Mary Drummond
Estate of Florence Mary Young
Estate of Harold Raymond Muir
Estate of Joan Barlow
Estate of Joan Elizabeth McNamara
Estate of John Anthony Simpson
Estate of John Graham Leonard and Margaret Leonard
Estate of John Richard Thornton
Estate of Lindsay James Baldy

Estate of Lynette Florence Lewis
Estate of Mary Helena Thompson
Estate of Maxwell Gardiner Helpman
Estate of Michael Sutherland Stansfeld
Estate of Myra Francesca Calio
Estate of Olive May Thurlby
Estate of Patricia Farrant
Estate of Petar Sember
Estate of Phyllis Ann Grave
Estate of Sheila Mary Helpman
Estate of Yvonne Mavis Byrne
Frederick and Winifred Grassick Memorial Fund
Irene & Ronald MacDonald Foundation
John Frederick Bransden Charitable Trust
Margaret Lewis Reilly Charitable Trust
Rigg Memorial Trust
The C.H. Boden Memorial Trust
The George Thomas & Lockyer Potter Charitable Trust
The Harding-Stern Bequest
The Hazel and Pip Appel Fund
Thomas, Annie and Doris Burgess Charity Trust

We've made every effort to ensure all details in this list are correct. However, if an error has occurred, please contact DonorRelations@wehi.edu.au



L-R: Stafford Fox Medical Research Foundation Trustees Ken Wallace and Paul Brotchie with WEHI's Associate Professor Oliver Sieber

Honouring a family legacy

The Stafford Fox Medical Research Foundation strengthened its philanthropic partnership with WEHI in 2022 by generously renewing its support of three programs: asthma research led by Associate Professor Rhys Allan, the Stafford Fox Centre for Cancer Stem Cell Disease Modelling led by Associate Professor Oliver Sieber, and ovarian cancer research led by Professor Clare Scott AM. These renewed commitments are in addition to the foundation's generous support of the WEHI Stafford Fox Rare Cancer Program.

Entrepreneurship and commercialisation

Accelerating great science for the benefit of our communities takes more than dedication in the laboratory. WEHI actively fosters a culture of entrepreneurship and supports the development of strategic collaborations and partnerships to enable the translation and commercialisation of our research.

Precision proteins

WEHI spinout Accrue Therapeutics – founded in early 2022 with funding from the Medical Research Commercialisation Fund, now Brandon Biocatalyst – merged with Boston-based Entact Bio, in a significant advance for the development of precision medicines that enhance the function of key proteins.

The combined entity, which has raised \$120 million in Series A financing from top-tier US and UK investors, aims to provide new options for patients through therapies that boost the function of beneficial proteins, rather than eliminating or blocking proteins that contribute to disease.

Entact Bio will maintain key research activities in Australia, hosted at WEHI with continued scientific leadership and direction from Professor David Komander and Dr Ueli Nachbur.

Cancer therapeutics

WEHI partnered with leading science and technology company Merck KGaA, Darmstadt, Germany on a drug discovery campaign to find new cancer therapeutics for a range of hard-to-treat cancers.

The four-year partnership will support the research to progress through the drug discovery pipeline and into human clinical trials.

Led by cancer biologist Associate Professor Joan Heath, the collaboration will leverage WEHI's expertise in minor class splicing and the genetic regulation of rapid cell growth and proliferation, aiming to create new drugs for rapidly-growing cancers that currently have few or no effective treatments.

Biotech incubator

WEHI joined CSL and the University of Melbourne in announcing the appointment of Cicada Innovations as the independent operator to oversee and manage a new start-up incubator that will support and grow early-stage biotech companies.

Funded in partnership with the Victorian Government through Breakthrough Victoria, the incubator will be Australia's first to be co-located with a leading biopharmaceutical company.

The incubator will provide all the wrap-around support that start-ups need to translate medical research into new treatments and therapies.



Leaders from WEHI, the University of Melbourne and CSL toured the future home of the biotech incubator at CSL's new Global Headquarters, currently under construction in the Melbourne Biomedical Precinct.

Intellectual property

Patents protect unique inventions made by WEHI scientists and facilitate commercial collaborations to progress the development of new medicines and diagnostics – a key step towards clinical translation.

2022

5 new patents granted

4 new provisional patents filed

466 active patents based on discoveries and inventions made by WEHI scientists

Celebrating our graduating students

Students are highly valued members of research groups at WEHI and receive world-class training in medical research and broader skills equipping them for a range of careers. We are proud that many go on to become leaders of our sector.

Congratulations to the following students who successfully completed their studies at WEHI during 2022.

Doctor of Philosophy, University of Melbourne

Dr Li Jin Chan

Development of antibody therapeutics for deadly infectious diseases: malaria and COVID-19

Professor Wai-Hong Tham,
Professor Alan Cowman

Dr Michelle Clark

Interfering with host cell signalling and cell death pathways to promote clearance of viral and parasitic infections

Professor Marc Pellegrini,
Dr Marcel Doerflinger

Dr James Patrick Cooney

Developing preventative and therapeutic strategies against HTLV-1 using a novel humanised mouse model

Professor Marc Pellegrini,
Professor Joseph Torresi

Dr Ruining Dong

Improving structural variant annotation and detection using high-throughput sequencing data

Professor Tony Papenfuss, Dr Ismael Vergara,
Dr Justin Bedo

Dr Sarah Garner

Manipulating cell death pathways to promote clearance of HIV-1

Professor Marc Pellegrini, Professor Joseph Torresi, Dr Cody Allison, Associate Professor Kathryn Davidson

Dr Sarah Garnish

Profiling a killer: MLKL-mediated death and its role in human disease

Professor James Murphy,
Dr Joanne Hildebrand

Dr Lizeth Gabriela Meza Guzman

Breaking natural killer cell tolerance and homeostasis for cancer immunotherapy

Professor Sandra Nicholson, Dr Nicholas Huntington, Associate Professor James Vince

Dr Luuk Heitink

Mechanisms of tumorigenesis and therapy resistance in breast cancer

Professor Jane Visvader,
Professor Geoffrey Lindeman

Dr Jonas Hess

Cell intrinsic and extrinsic control of small cell lung cancer

Associate Professor Kate Sutherland, Dr Sarah Best, Professor Nicholas Huntington

Dr Shuai Huang

Identifying novel regulators of intrinsic apoptosis

Associate Professor Grant Dewson,
Professor David Huang, Dr Mark van Delft

Dr Hannah Huckstep

Understanding information flow in signalling pathways using network-based analysis of phosphoproteomic data

Professor Melissa Davis, Associate Professor Andrew Webb, Dr Liam Fearnley

Dr Jelte Krol

Identifying and characterising exported hepatic effector proteins of the human malaria parasite *Plasmodium falciparum*

Associate Professor Justin Boddey, Professor Marco Herold, Professor Alan Cowman

Dr Rune Hertz Larsen

Development of an ultrasensitive phosphoproteomic workflow to enable primary cell phosphoproteomics

Associate Professor Andrew Webb,
Professor John Silke, Dr Jarrod Sandow

Dr Elizabeth Lieschke

Elucidating the cellular processes that are critical for p53 mediated tumour suppression

Professor Andreas Strasser,
Associate Professor Gemma Kelly

Dr Lin Liu

Characterisation of new regulators in TNFR1-mediated death signalling

Associate Professor Oliver Sieber,
Professor Marco Herold, Dr Sheng Liu,
Dr Anuratha Sakthianandeswaren

Dr Ronnie Ren Jie Low

Identification of new vulnerabilities in pancreatic cancer

Associate Professor Tracy Putoczki, Professor Sean Grimmond, Professor Frederic Hollande

Dr Farima Moghaddaskho

Optimising BH3 mimetic therapy for patients with haematological cancers

Professor David Huang, Professor Andrew Roberts

Dr Michelle Rühle

The molecular control of lymphocyte fate timers

Professor Phil Hodgkin, Dr Susanne Heinzel

Dr Hema Preethi Subas Satish

Engineering antibodies to trigger Bak-mediated apoptosis in cancer

Associate Professor Ruth Kluck,
Professor Antony Burgess

Dr Antonin Jean Emile Serrano

Deciphering breast cancer heterogeneity and metastatic fate using cellular barcoding

Associate Professor Shalin Naik,
Dr Delphine Merino

Dr Kristen Scicluna

Structural and functional investigation of the BCL-2 family member, BCL-rambo

Professor Peter Czabotar, Associate Professor Grant Dewson, Dr Richard Birkinshaw

Dr Amania Anwar Sheikh

Transcriptional and migration regulation of T follicular helper cell differentiation

Associate Professor Joanna Groom,
Professor Gabrielle Belz

Dr Jeffrey Smith

The purification, identification, and measurement of RNA-binding proteins

Associate Professor Andrew Webb,
Professor Melissa Davis,
Associate Professor Aaron Jex

Dr Annemarie Steiner

Investigation of novel pathways causing autoinflammatory disease

Professor Seth Masters, Dr Sophia Davidson

Dr Swapnil Tichkule

Population genetics and evolutionary epidemiology of diarrhoeal pathogen *Cryptosporidium*

Associate Professor Aaron Jex, Professor Melanie Bahlo, Professor Ivo Mueller

Dr Lisa Verzier

Molecular mechanisms of liver infection by the human malaria parasite *Plasmodium falciparum*

Associate Professor Justin Boddey,
Professor Marco Herold

Dr Zilu Wang

Therapeutic targeting of mutant TP53 in human cancers

Professor Andreas Strasser,
Associate Professor Gemma Kelly

Dr Shengbo Zhang

Transcriptional regulation of type 1 conventional dendritic cells and their application in tumor immunotherapy

Professor Stephen Nutt, Dr Michael Chopin

Master of Biomedical Science, University of Melbourne

Aisah Resti Amelia

The relationship of autoantibodies and circulating immune complexes with NETosis in COVID-19 severity risk
Dr Anna Coussens, Dr George Ashdown

Master of Philosophy, University of Melbourne

Soroor Hadiyah Zadeh

Statistical and machine learning models for estimation of missing values in label-free mass spectrometry quantification
Professor Melissa Davis, Associate Professor Andrew Webb

Bachelor of Science (Honours) or Bachelor of Biomedicine (Honours), University of Melbourne

Hanadi Hoblos

Doublecortin-like kinases, drug targets in cancer and neurological disorders
Professor Isabelle Lucet, Dr Josh Hardy, Dr Michael Roy

Min Hoo

How platelets prevent neonatal stroke
Dr Samir Taoudi, Dr Alison Fairley

Niva Jayakrishnan

Using nanobodies against transferrin receptor for drug delivery across the blood brain barrier
Professor Wai-Hong Tham, Dr Gabby Watson

Harry McLeod

Juxtamembrane features governing type I homodimeric cytokine receptor triggering
Associate Professor Melissa Call, Associate Professor Matthew Call, Dr Samyuktha Ramesh

Krishneel Prasad

Testing novel CAR T cells for brain cancer
Associate Professor Misty Jenkins, Dr Ryan Cross, Dr Alex Davenport

Muhab Rehman

Towards a novel approach to modulating Kir channel activity
Dr Jacqui Gulbis, Dr Agalya Periasamy

Jasmine Jiwon Rou

Evaluating the effect of oligomerisation on the safety and efficacy of CAR T cell therapies
Associate Professor Melissa Call, Professor Matthew Call, Dr Ashleigh Davey

Erin Roycroft

Targeting CD98 as a novel treatment for rheumatoid arthritis
Dr Kate Martin, Professor Ian Wicks, Dr Cynthia Louis

Robert Tan

How lymphocytes are stopped - a novel mechanism to prevent lymphoma
Dr Susanne Heinzel, Professor Phil Hodgkin

Joshua Tong

Investigating new/novel connections of the mitochondrial TOM complex
Dr Jacqui Gulbis, Dr Agalya Periasamy

Pranavie Vijayakumar

Minimising rheumatic adverse events of checkpoint inhibitor cancer therapy
Professor Ian Wicks, Dr Cynthia Louis

Matthew Wierzbowski

Choosing antibody type: B cells as a model system for cellular calculation and signal induced fate control
Professor Phil Hodgkin, Dr Miles Horton, Dr Susanne Heinzel

Wencong (Kenneth) Wu

Naturally acquired immune response to malaria parasites
Dr Rhea Longley, Professor Ivo Mueller



Master of Biomedical Science student Aisah Resti Amelia presents at the 2022 WEHI Student Symposium.

Operational overview

Guided by our 2019-2023 Strategic Plan and our long-term vision, WEHI maintained its focus on staff and student wellbeing, strengthening connectivity and building on activities that promote sustainability.

Enhancing flexibility and support

Reflecting the evolving dynamics of flexible and hybrid work, in 2022 WEHI:

- launched an online flexibility hub offering practical guidance for managers and teams
- educated staff and students about how to establish team protocols on communication and collaboration
- implemented a new principles-based flexible working policy.

Parents of young children face unique challenges in their careers and WEHI is committed to improving the experiences of parents and families. WEHI New Parents was established in 2022 as a peer support group for parents and carers of preschool aged children.

In December, the first cohort of children enrolled at the Professor Lynn Corcoran Early Learning Centre (ELC) graduated from four-year-old kindergarten. The 100-place ELC, operated by Froebel Australia, was the first on-site childcare centre at an Australian independent medical research institute when it opened in 2018.

Enabling research and innovation

Creative and visionary thinking across WEHI was boosted in 2022 by the launch of the new Co-Lab: Platform Collaboration Grants, funded by a generous bequest to WEHI from the Estates of John Thompson and Mary Helena Thompson. These grants fund innovative and ambitious research collaborations between WEHI's platform technology and laboratory scientists. The new scheme complements existing internal grant schemes: the Clinical Translation Grant, also funded by the Mary Helena Thompson Bequest, and the Eve Mahlab Awards for Blue Sky Research, supported by a generous gift from the Mahlab family.

WEHI's Technology Strategy is a 10-year plan that aims to build capacity in new technology, and to develop and support researchers to deliver high-impact, world-class research and translation. In 2022, strategy implementation focused on developing processes for the annual evaluation of technology areas and maximising the benefits of investments in new high-impact technology, with the assistance of funding from donors.

Drug discovery relies on access to 'libraries' of chemical compounds. A new, Australian-first Compound Storage Facility installed by WEHI's talented engineers and logisticians in 2022 now provides researchers with valuable direct on-site access to these compounds, enhancing future drug discovery efforts.

Governance, ethics and integrity

Integrity and accountability are fundamental WEHI values. We recognise the importance of good governance, risk management, compliance and ethical practice in supporting research and ensuring sustainability. Three new and updated policies were launched in 2022 – Research Integrity, Conflict of Interest, Private Outside Work – strengthening our commitment to ethical practices and a values-based culture.

In 2022, former Board member Peter Collins was appointed as WEHI's Head, Research Integrity and Ethics (Specialist), working in partnership with Associate Professor Ian Majewski, Head, Research Integrity and Ethics, and our Governance, Risk and Compliance team to develop, implement and continually improve our research and business practices to achieve the highest possible standards.

Honorary Research Fellow and former WEHI deputy director Professor David Vaux AO was the inaugural recipient of an Australian Academy of Science award for research integrity. The award is named in his honour, acknowledging his commitment over many years to fostering and promoting integrity in science.

Growth and expansion

To accommodate growth, most of WEHI's Professional Services teams relocated to a vibrant campus in Elizabeth Street, at the southern end of Melbourne's expanding biomedical and education precinct.

- Design of the "E-Street" campus facilitates flexible working models, with collaborative working zones and spaces for hybrid meetings.
- Relocation enabled reorganisation and expansion of facilities and experimental laboratories at our Parkville campus.



WEHI's new "E-Street" campus.

Advancing reconciliation

During National Reconciliation Week, WEHI was thrilled to announce a three-year partnership with leading First Nations not-for-profit, DeadlyScience, to foster the next generation of Aboriginal and Torres Strait Islander scientists.

- WEHI and DeadlyScience are working to co-design and deliver science-based programs and activities for First Nations school students.
- Projects in development aim to embed and expand initiatives at WEHI to build a pipeline for Aboriginal and Torres Strait Islander peoples across different levels and entry points.
- This is the first DeadlyScience partnership with a medical research institute and the first partnership created under its DeadlyPathways program.
- The partnership builds on WEHI's strategic commitment to increasing participation of Aboriginal and Torres Strait Islander peoples at all levels in the organisation, following the launch of its first Indigenous Employment Strategy in 2021.

Gender equality

Taking action to promote an inclusive, safe and respectful workplace where all people can thrive is at the heart of WEHI's values.

- Australian climate change scientist Distinguished Professor Lesley Hughes delivered WEHI's 2022 International Women's Day address, in line with the UN theme 'Changing climates: Equality today for a sustainable tomorrow'.
- WEHI marked 16 Days of Activism against Gender-Based Violence for the eighth consecutive year, with advocacy encouraging all staff and students to actively contribute to fostering a workplace where everyone feels safe, respected and valued.
- WEHI undertook a comprehensive staff and student consultation to inform work to strengthen our workplace behaviour framework, including the development of a new stand-alone sexual harassment policy.
- WEHI was proud to be part of the Champions of Change Coalition 2022 Impact Report, showing the many ways we are taking action to accelerate gender equality. The Impact Report is believed to be the largest voluntary disclosure of gender equality actions and measures globally.



WEHI celebrated the launch of our partnership with DeadlyScience during National Reconciliation Week.

A better place to work and study

In 2022, the Fair Work Commission approved the One WEHI Enterprise Agreement, supported by the overwhelming majority of eligible staff. The agreement came into operation in April and has reduced the complexity of WEHI's employment conditions.

Staff and students shared their feedback on how to make WEHI a better place to work and study through our 2022 'WEHI Voice' culture survey. The results showed improvement and progress in safety, career paths and capability since the 2021 survey and highlighted areas of focus to help drive our people-related strategies and initiatives.

The launch of a new online learning platform offered our staff and students access to a greater range of professional development courses, with a user-friendly interface and a more dynamic learning experience.

WEHI Voice

Culture survey deepens engagement

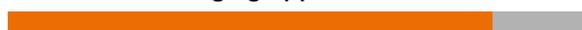
5930 comments

869 respondents

8.6/10 for flexibility



8.4/10 for challenging opportunities



8.1/10 for diversity & inclusion



Fostering inclusion

WEHI is committed to fostering a vibrant workplace where everyone is welcome to contribute and encouraged to bring their whole self in a safe, supportive environment.

- On International Pronouns Day, our LGBTQIA+ network WE-Pride invited the WEHI community to a director's seminar featuring conversations with guest speakers Elysa Carr and Dr Mohammad Tata on what it means to choose pronouns beyond the binary.
- WEHI and the Burnet Institute stood together to affirm support for the transgender and gender diverse community, in a joint statement celebrating diversity and our commitment to LGBTQIA+ inclusion.

Progress on sustainability

As part of our Environmental Management and Sustainability Strategy (2021-2023), WEHI has committed to achieving carbon neutrality and improving key environmental sustainability outcomes.

In 2022, WEHI joined the Climate and Health Alliance (CAHA), Australia's national peak body on climate and health. Joining CAHA is part of WEHI's commitment to demonstrate leadership on climate change, and to contribute to shared advocacy and action to address its health impacts.

A dedicated environmental sustainability coordinator was appointed to lead initiatives agreed by the Environmental Management and Sustainability Committee including:

- completing a WEHI-wide waste audit and gathering data for a greenhouse gas audit to support a data-driven approach to achieving net zero emissions
- driving leadership across the sector, including convening the first meeting of the Association of Australian Medical Research Institutes' (AAMRI) Environmental Sustainability Network and presenting at the AAMRI Annual Convention on reducing waste in medical research institutes
- boosting staff and student engagement with environmental sustainability activities.

Energy reduction

LED upgrade across 3 campuses

70% cut in power consumed by lighting

One of WEHI's biggest energy reduction projects



Reconnecting with alumni

After two years of restrictions on gatherings and travel, 2022 marked the return of in-person events and opportunities to re-establish and strengthen ties with our WEHI alumni.

- At our first in-person alumni event for 2022, WEHI biomedical animator Dr Drew Berry explained what goes into creating accessible, illuminating and enlightening animations of the molecular mechanisms that power living cells.
- Dr Sofonias Tessema of the Africa Centres for Disease Control and Prevention, who undertook his PhD at WEHI, joined deputy director Professor Alan Cowman AC and Professor Wai-Hong Tham in a webinar to discuss the challenges of building a continent-wide genomic disease surveillance network. Dr Tessema also featured as a “Hero in the Field” in a video posted by technology pioneer and philanthropist Bill Gates on his YouTube channel.
- We launched WEMentor, a program in which alumni are encouraged to mentor current PhD researchers at various stages of their candidature.

Expanding our consumer engagement

WEHI’s Consumer Program – the largest of its kind in Australian medical research – continues to expand, with 93 consumers embedded in labs across the institute.

Two new Consumer Program Coordinator roles were created in 2022, to meet the growing demand for consumer involvement in grant applications, focus groups and steering committees. Active consumer participation in research remains a focus for WEHI and a requirement for many funding bodies, supporting the ongoing growth of the program.

25 years of Art of Science

WEHI celebrated the 25th anniversary of our Art of Science competition and exhibition with a focus on inspiring the next generation of budding scientists.

- A selection of 20 captivating still and moving images captured by WEHI researchers gave viewers an intimate glimpse into milestone biomedical discoveries, with winners selected by Guest Judge Corey Tutt OAM, CEO and Founder of DeadlyScience.
- A specially commissioned 15-minute soundscape composed by students in the Interactive Composition program at the Melbourne Conservatorium of Music, University of Melbourne, played in the virtual Art of Science gallery.

Student Open Days

In-person and online events

Attendance up 35%



Prospective students from 33 countries



WEHI director Professor Doug Hilton hosted alumni events in Zurich, Munich, Berlin and London (pictured), while travelling to visit international research partners and collaborators.

WEHI Board

The directors of the Walter and Eliza Hall Institute of Medical Research Board
31 December 2022



WEHI Board members 2022 (left to right): Dr Angeli Weller, Professor Sir John Savill, Carolyn Viney, Marie McDonald, Geoff Roberts, John Dyson, Jane Hemstrich AO, Professor Doug Hilton AO (WEHI director), Professor James McCluskey AO, Robert Wylie, Professor Jane Gunn, Associate Professor Pippa Connolly, Professor Christine Kilpatrick AO.

President

Jane Hemstrich AO

BSc (Hons) *London University*
FICAEW FICAANZ FAICD
Appointed: October 2013
Appointed President: May 2019

Vice President

Professor Sir John Savill

BA *Oxford* MBChB *Sheffield* PhD
London FRCP FRCPE FRCSEd
(Hon) FRCPCH(Hon) FASN FRSE
FMedSci FAHMS FRS
Appointed: June 2018
Appointed Vice-President: March 2021

Honorary Treasurer

Robert Wylie

FCA FAICD
Appointed: April 2014
Appointed Honorary Treasurer: April 2014

Board members

Malcolm Broomhead AO

BE (Civil) MBA *UQ* FIE (Aus)
FAusIMM FAIM MICE (UK) FAICD
Appointed: July 2014

Associate Professor (Practice) Pippa Connolly

MEng *Leeds* GAICD CPEng FIEAust
Appointed: April 2019

John Dyson

BSc *Monash* Grad Dip Fin Inv *SIA*
MBA *RMIT*
Appointed: May 2016

Professor Jane Gunn

MBBS PhD *Melbourne* FAHMS
FRACGP DRANZCOG
Appointed: February 2021



*Board members not present in group photograph:
Malcolm Broomhead AO (top right) and Kee Wong (bottom right).*

**Professor
Christine Kilpatrick AO**
MBBS MBA MD DMedSci (Hons)
Melbourne FRACP FRACMA FAICD
FAHMS
Appointed: May 2017

**Professor
James McCluskey AO**
BMedSc MBBS MD UWA FRACP
FRCPA FAA FAHMS
Appointed: April 2011

Marie McDonald
BSc (Hons) LLB (Hons) *Melbourne*
Appointed: October 2016

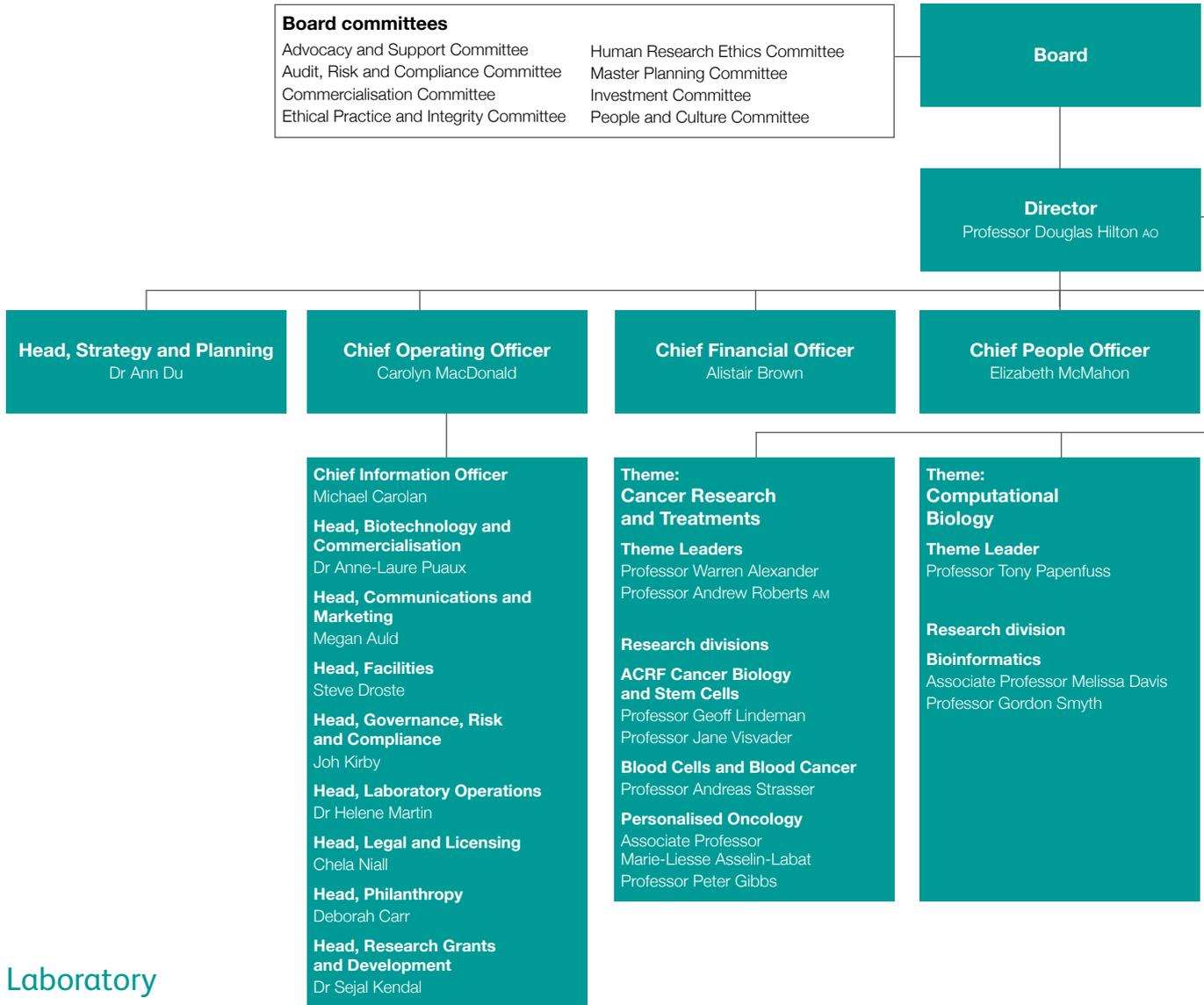
Geoff Roberts
BComm *Melbourne* FCA FAICD
Exec MBA AGSM
Appointed: August 2022

Carolyn Viney
LLB/BA *Monash*
Appointed: December 2016

Dr Angeli Weller
BA(Hons) *Mount Holyoke* MBA
Cambridge PhD *Copenhagen*
Business School
Appointed: February 2022

Kee Wong
BE (Hons) Grad Dip Computing MBA
FAICD
Appointed: July 2021

Organisational structure 31 December 2022



Laboratory heads

ACRF Cancer Biology and Stem Cells

Dr Yunshun Chen
Associate Professor Naiyang Fu
Professor Geoff Lindeman
Professor Clare Scott
Associate Professor Kate Sutherland
Professor Jane Visvader

ACRF Chemical Biology

Associate Professor Ethan Goddard-Borger
Professor Guillaume Lessene
Associate Professor Isabelle Lucet
Dr Brad Sleebs

Advanced Technology and Biology

Dr Rory Bowden
Dr Marija Dramicanin
Dr Kym Lowes
Simon Monard
Associate Professor Kelly Rogers
Ellen Tsui
Associate Professor Andrew Webb
Kaye Wycherley

Bioinformatics

Associate Professor Melissa Davis
Professor Tony Papenfuss
Dr Belinda Phipson
Professor Gordon Smyth
Professor Terry Speed

Blood Cells and Blood Cancer

Professor Warren Alexander
Dr Nadia Davidson
Professor Marco Herold
Professor Douglas Hilton AO
Professor David Huang
Associate Professor Gemma Kelly
Associate Professor Ruth Kluck
Associate Professor Ian Majewski
Professor Andrew Roberts AM
Professor Andreas Strasser
Professor Andrew Wei

Clinical Translation

Professor Clare Scott
Professor Ian Wicks

Epigenetics and Development

Professor Marnie Blewitt
Associate Professor Joan Heath
Dr Hamish King
Professor Matthew Ritchie
Dr Samir Taoudi
Associate Professor Tim Thomas
Dr Stephin Vervoort
Professor Anne Voss

Management Committees

- | | |
|---|------------------------------|
| Animal Ethics Committee | Faculty Review Committee |
| Attracting and Developing Exceptional People (ADEPT) | Gender Equality Committee |
| Biosafety Committee | Health and Safety Committee |
| Clinical Translation Standing Committee | IT Governance Committee |
| Diversity and Inclusion Committee | Project Governance Committee |
| Education Committee | Reconciliation Committee |
| Engagement Committee | Risk Management Committee |
| Environmental Management and Sustainability Committee | Strategic Cabinet |

Deputy Director, Science Strategy

Professor Alan Cowman AC

Head, Scientific Education

Professor Marnie Blewitt

Heads, Research Integrity and Ethics

Peter Collins (Specialist)
Associate Professor Ian Majewski

Theme: Infection, Inflammation and Immunity

Theme Leader
Professor John Silke

Research divisions

Immunology

Associate Professor Daniel Gray
Professor Phil Hodgkin

Infectious Diseases and Immune Defence

Professor Marc Pellegrini
Professor Wai-Hong Tham

Inflammation

Professor James Murphy

Theme: Healthy Development and Ageing

Theme Leader
Professor Melanie Bahlo

Research divisions

Epigenetics and Development

Professor Marnie Blewitt
Professor Anne Voss

Population Health and Immunity

Professor Ivo Mueller
Professor Sant-Rayn Pasricha

Ubiquitin Signalling

Professor David Komander

Theme: New Medicines and Advanced Technologies

Theme Leader
Professor Guillaume Lessene

Research divisions

ACRF Chemical Biology

Associate Professor Isabelle Lucet

Advanced Technology and Biology

Dr Kelly Rogers

Structural Biology

Associate Professor Matthew Call
Associate Professor Peter Czabotar

Clinical Translation

Professor Clare Scott AM
Professor Ian Wicks

Colonial Foundation Healthy Ageing Centre

Associate Professor Andrew Webb

National Drug Discovery Centre

Dr Jeff Mitchell

Brain Cancer Centre

Sam McGuane

Immunology

Associate Professor Rhys Allan
Dr Vanessa Bryant
Professor Daniel Gray
Associate Professor Joanna Groom
Professor Phil Hodgkin
Associate Professor Misty Jenkins
Dr Shalin Naik
Professor Stephen Nutt
Dr Charlotte Slade
Associate Professor Jason Tye-Din

Infectious Diseases and Immune Defence

Associate Professor Justin Boddey
Dr Anna Coussens
Professor Alan Cowman AC
Associate Professor Diana Hansen
Professor James McCarthy
Professor Marc Pellegrini
Professor Wai-Hong Tham
Associate Professor Chris Tonkin
Professor Deborah Williamson

Inflammation

Associate Professor Edwin Hawkins
Professor Seth Masters
Professor James Murphy
Professor Sandra Nicholson
Professor John Silke
Associate Professor James Vince
Professor Ian Wicks

Personalised Oncology

Associate Professor Marie-Liesse Asselin-Labat
Dr Sarah Best
Dr Saskia Freytag
Professor Peter Gibbs
Associate Professor Tracy Putoczki
Associate Professor Oliver Sieber
Dr Jim Whittle

Population Health and Immunity

Professor Melanie Bahlo
Professor Len Harrison
Associate Professor Aaron Jex
Professor Ivo Mueller
Professor Sant-Rayn Pasricha
Associate Professor Rosie Watson
Associate Professor Nawaf Yassi

Structural Biology

Associate Professor Jeff Babon
Associate Professor Matthew Call
Associate Professor Melissa Call
Associate Professor Peter Czabotar
Dr Alisa Glukhova
Dr Nadia Kershaw
Professor Mike Lawrence
Dr Shabih Shakeel

Ubiquitin Signalling

Associate Professor Grant Dewson
Dr Rebecca Feltham
Professor David Komander
Associate Professor Michael Lazarou
Dr Bernhard Lechtenberg

Members of WEHI to 31 December 2022

The Royal Melbourne Hospital	Ian Coulson	Charles Goode AC
The University of Melbourne	Dr Nicholas Crosbie	Dr Gareth Goodier
Dr Susan Alberti AC	Joan Curtis	Andrea Gowers
Professor Emeritus Robin Anders	Professor Andrew Cuthbertson AO	John Grace AO
Professor James Angus AO	John Dahlsen	Maureen Grant
Donald Argus AC	Stephen Daley	Tony Gray
Barry Axtens	June Danks	Sir Andrew Grimwade CBE
Lisa Bardas	Annette Davis	Jean Hedges
Paul Barnett	Leon Davis AO	Professor Emanuela Handman
Helen Barry	Liz Dawes OAM	Michael Harris
Ann Bates	Professor Karen Day	Harry Hearn AM
Robert Bates	Dr Simon de Burgh	Jane Hemstrich AO
Dr Elsmaree Baxter	Professor David de Kretser AC	Deborah Henderson
Dr Glenn Begley	Professor John Denton	Professor David Hill AO
Professor Claude Bernard	Mick Dexter	Janet Hirst
Marc Besen AC	Angelo Di Grazia	Jon Isaacs
Professor Rufus Black	Helen Diamond	Murray Jeffs
Ngaree Blow	Melda Donnelly OAM	Jose Jimenez
Malcolm Broomhead AO	Professor Ashley Dunn	Terese Johns
Professor Graham Brown AM	John Dyson	Professor Shitij Kapur
Rosalind Brown	Roz Edmond	Helen Kennan
Beverley Brownstein	Dr Martin Elhay	Rowan Kennedy
Dr Gerard Brownstein	Garry Emery	Margot Kilcullen
Sally Bruce	Dr Peter Eng	Rob Kilcullen
Ian Brumby	Professor Sir Marc Feldmann AC	Professor Christine Kilpatrick AO
John Brumby AO	Dr Wendy Fisher	Emeritus Professor Frank Larkins AM
Dr Margaret Brumby AM	Mike Fitzpatrick AO	Professor Richard Larkins AC
Professor Tony Burgess AC	Pauline Flanagan	Belinda Lawson
Professor Christopher Burrell AO	Dr Sue Forrest	Gary Liddell
Greg Camm	Professor Richard Fox AM	Dr Rowena MacKean OAM
Terry Campbell AO	Nolene Fraser	Dr Alexander Macphee
Kate Cannon	Paul Fraser	Eve Mahlab AO
Saul Cannon	Professor Ian Frazer AC	Robyn Male
Dr Amanda Caples	Ian Galbraith	Lorrie Mandel
Gill Carter	Dr Neil Galbraith	Barrie Marshall
Pat Cashin	Sarah Galbraith	John Marshall AM
Emeritus Professor Colin Chapman	Pamela Galli AO	Josephine Marshall
John Chatterton AM	Kelli Garrison	Emeritus Professor Jack Martin AO
Dr Julian Clark	Dr Andrew Gearing	Erich Mayer AM
Lady Susannah Clarke	Louise Gehrig	Netta McArthur
Peter Collins	Barry Gilbert	Professor James McCluskey AO
Pippa Connolly	Janet Gilbertson	Marie McDonald
Jacqui Cooper	Peter Gilbertson	Professor John McKenzie AM
Dr Paul Cooper	Rose Gilder	Kate McMahan
Glenn Corke	Professor James Goding	Tim McMahan

Professor Kathryn McPherson
 Professor Frederick Mendelsohn AO
 Johanna Metcalf
 Kate Metcalf
 Professor Jacques Miller AC
 Professor John Mills AO
 Robert Minter
 Professor Christina Mitchell AO
 Dr Graham Mitchell AO
 Barry Moore
 Terry Moran AC
 Barbara Morgan
 Hugh Morgan AC
 Dr George Morstyn
 John Murphy
 Tony Murphy
 Linda Nicholls AO
 Sandra Nicola
 Dr Leslie Norins
 Rainey Norins
 Maureen O’Keefe
 Bill O’Shea
 Professor David Penington AC
 Emeritus Professor
 Roger Pepperell AM
 Gayle Petty
 Emeritus Professor Jim Pittard AM
 Lady Primrose Potter AC
 John Prescott AC
 Cathy Quilici
 Denis Quilici
 Professor Peter Rathjen
 Kate Redwood AM
 Dieter Rinke
 Geoff Roberts
 Associate Professor Ken Roberts AM
 Linda Rodger
 Mary Rodger
 Ellie Rogers
 Margaret Ross AM
 Fergus Ryan
 Professor Graeme Ryan AC
 Colin Sakinofsky
 Professor Nick Samaras
 Keith Satterley
 Professor Sir John Savill
 Professor Carl Schedvin
 Anne Schumacher-Carson

Carol Schwartz AO
 Dr Roland Scollay
 Professor Andrew Scott AM
 Professor John Scott AO
 Dr Paul Scown
 Sam Sharman OAM
 Lousje Skala
 Steven Skala AO
 Professor Stephen Smith
 Jack Smorgon AO
 Sally Speed
 Professor Terry Speed
 Ann Sprague
 Professor Tom Spurling
 Geoffrey Stewardson
 Dr John Stocker AO
 Jennifer Strangward
 John Stratton
 Kate Summers
 Helen Sykes
 Jenny Tatchell
 Bruce Teele
 Cheryl Thomas
 Christopher Thomas AM
 Carolyn Viney
 John Walker KC
 Kyoung Walker
 Stanley Wallis AC
 Peter Walsh
 Catherine Walter AM
 John Walter
 John Warburton
 Robert Warren
 Catherine Watt
 Kevin Weight
 Dr Angeli Weller
 Professor Richard Wettenhall
 Dr Senga Whittingham
 Dr Mark Wickham
 David Williamson
 Malcolm Williamson
 Professor Robert Williamson AO
 Professor Ingrid Winship AO
 Kee Wong
 Sally Wood
 Peter Worcester
 Rob Wylie
 Professor Quan Zhao

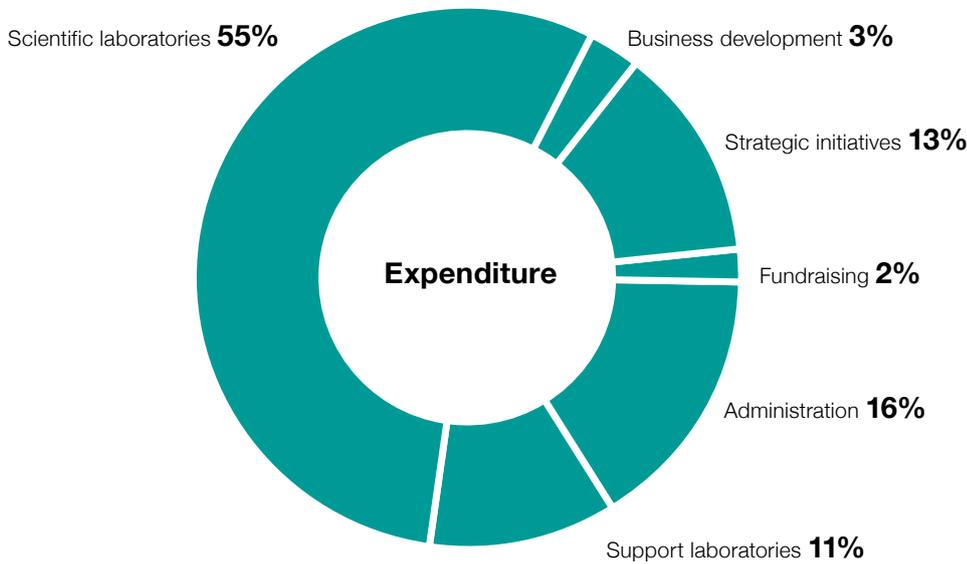
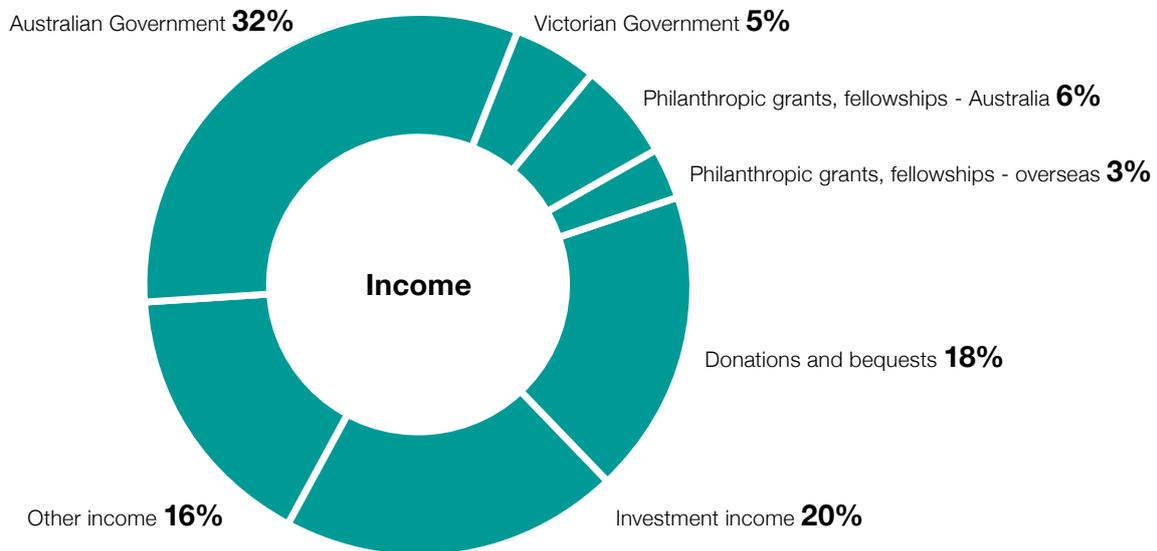
**WEHI remembers those members
 who passed away in 2022**

Col Tom Hall CVO, OBE
 Darvell Hutchinson AM
 Dr Judith Mitchell
 Colin North OAM
 Lady Lyn Nossal
 John Pye

Statistical summary

	2022 \$'000s	2021 \$'000s	2020 \$'000s	2019 \$'000s	2018 \$'000s
Operating revenue					
Australian Government	56,930	59,900	64,798	46,298	45,057
Victorian Government	9,599	9,883	10,311	10,513	10,909
Foreign governments	380	35	-	70	22
Government revenue	66,909	69,818	75,109	56,881	55,988
Industrial grants and contracts	17,588	12,181	13,439	8,689	7,182
Philanthropic grants and fellowships - Australia	10,510	12,563	9,870	13,399	15,759
Philanthropic grants and fellowships - international	6,007	2,885	4,649	3,343	6,824
Investment income	35,740	29,518	19,996	24,156	30,063
Royalty income	2,434	770	1,654	7,483	4,027
General revenue	7,300	9,105	6,842	8,916	8,260
Donations and bequests	31,949	28,227	26,522	15,449	14,766
Royalty monetisation revenue	-	27,590	38,961	35,633	-
Non-government revenue	111,528	122,839	121,933	117,068	86,881
Total revenue	178,437	192,657	197,042	173,949	142,869
Operating expenditure					
Staff costs	121,581	109,662	102,547	98,340	90,493
Scientific laboratories	26,535	24,561	20,212	23,435	23,390
Building operations	6,254	5,585	5,092	5,908	5,801
Administration	13,233	14,716	11,520	8,648	6,715
Fundraising	911	518	502	620	475
Business development	2,355	9,200	2,725	1,219	1,261
Allowance for credit loss increase/(decrease)	-	(32)	(30)	62	188
Royalty monetisation costs	-	(4,418)	2,239	10,104	4,755
Net foreign exchange loss/(gain)	(6,413)	(4,669)	10,282	477	(4,998)
Total expenditure	164,456	155,123	155,089	148,813	128,080
Results from operating activities	13,981	37,534	41,953	25,136	14,789
Other income					
Profit/(loss) on sale of long-term assets	-	161	(135)	297	2
Fair value gain/(loss) on investments	(8,432)	10,549	816	5,261	(589)
Share of profits/(loss) of equity accounted investments	2,011	-	-	-	-
Gain on merger	4,068	-	-	-	-
Donations and bequests capitalised to Permanent Funds	1,620	26,659	673	1,359	6,510
Total other income	(733)	37,369	1,354	6,917	5,923
Other expenses					
Depreciation and amortisation	(13,746)	(12,959)	(11,871)	(10,941)	(9,368)
Impairment of property, plant and equipment	(142)	(4,422)	-	-	-
Total other expenses	(13,888)	(17,381)	(11,871)	(10,941)	(9,368)
Net operating surplus	(640)	57,522	31,436	21,112	11,344
Capital funds					
Permanent invested capital funds	240,122	229,672	202,322	198,833	194,181
General funds	408,197	419,077	394,285	371,193	377,710
Royalty fund	55,822	56,389	56,135	55,039	48,054
Leadership fund	35,259	30,225	28,927	27,965	26,557
Discovery fund	6,341	5,746	5,484	5,271	4,961
Investment revaluation reserve	82,526	125,878	70,311	67,200	8,211
Total funds	828,267	866,987	757,464	725,501	659,674
Capital expenditure					
Property, plant and equipment	15,266	15,710	24,195	12,252	22,029
Staff numbers: (equivalent full-time)					
Scientific research staff:					
- Senior faculty	82	74	85	87	80
- Postdoctoral scientists	276	252	224	213	199
- Visiting scientists	12	8	32	34	36
- Other laboratory research staff	329	313	234	235	241
Supporting staff:					
- Other support services	211	180	204	202	196
Total staff and visiting scientists	910	827	779	771	752
Students	197	194	159	206	192
Papers published	484	477	424	388	417

The year at a glance



The Year In Brief

	2022	2021
	\$'000	\$'000
Income for operations	178,437	192,092
Expenditure in operations	185,086	176,276
Net surplus (deficit) from operations	(6,649)	15,816
Number of staff and visiting scientists	910	778
Number of postgraduate students	197	159
Total staff and students (FTEs)	1,107	937

Community and connection



The first WEHI babies to be enrolled at the Professor Lynn Corcoran Early Learning Centre (ELC) graduated from four-year-old kindergarten in December. The ELC opened in 2018 with support from philanthropic donors, government, WEHI board, committee members and staff who helped make the vision a reality. Board member and donor John Dyson has described the childcare centre as one of WEHI's biggest contributions to medical research.

Pictured: Associate Professor Tracy Putoczki (left) with son Thomas and Dr Kate Jarman (right) with daughter Maddie.



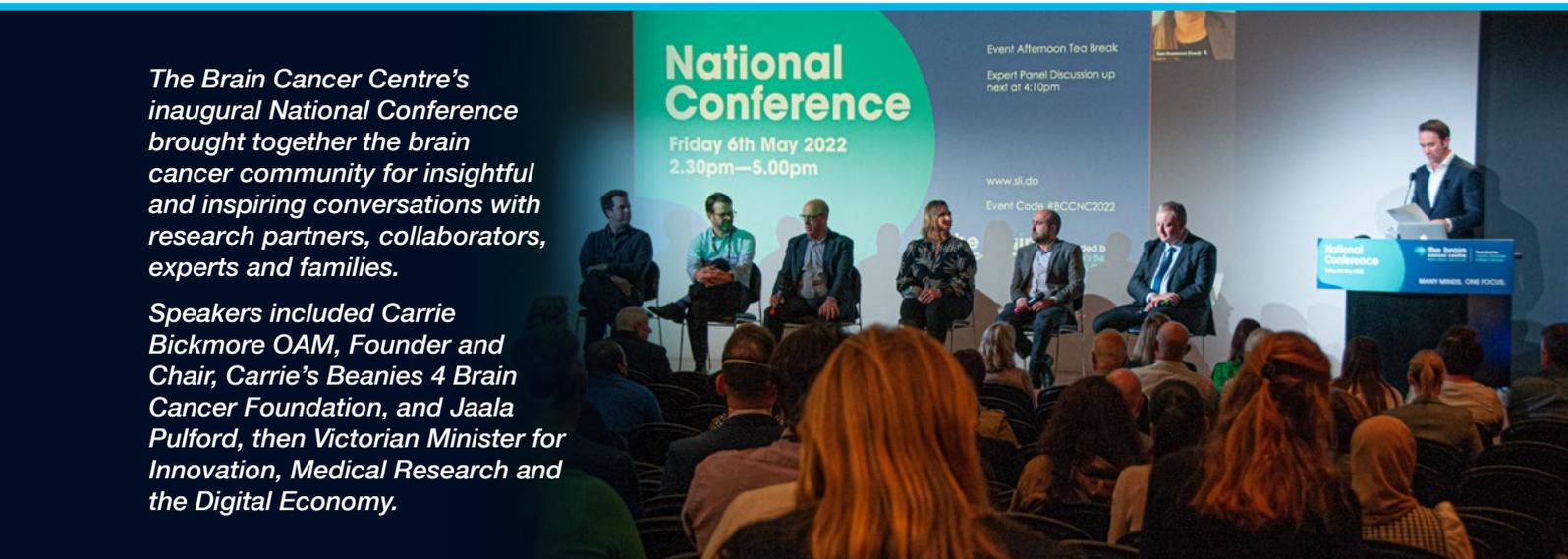
The extended WEHI community came together to celebrate the 90th birthday of former director, and honorary governor and patron, Sir Gus Nossal AC CBE, in late May. MC for the night, ABC presenter and science journalist Natasha Mitchell, joined current and former WEHI board and committee members and directors, philanthropic supporters, partners from government and industry, WEHI senior staff, Sir Gus's family and his former colleagues for a memorable dinner at the National Gallery of Victoria.

Photos: Gena Ferguson.



Supporters who choose to leave gifts to WEHI in their Wills are welcomed into the Walter and Eliza Hall Society – a group of like-minded people who enjoy a range of opportunities to engage with our scientists and hear about their research efforts. In July, members gathered for a high tea at the Arts Centre Melbourne and heard presentations from researchers Associate Professor Joanna Groom and Dr Rebecca Feltham.

Pictured: Society members Helen Barry and Noël Sumner with Noël's daughter, Nicole Sumner, and WEHI director Professor Doug Hilton AO.



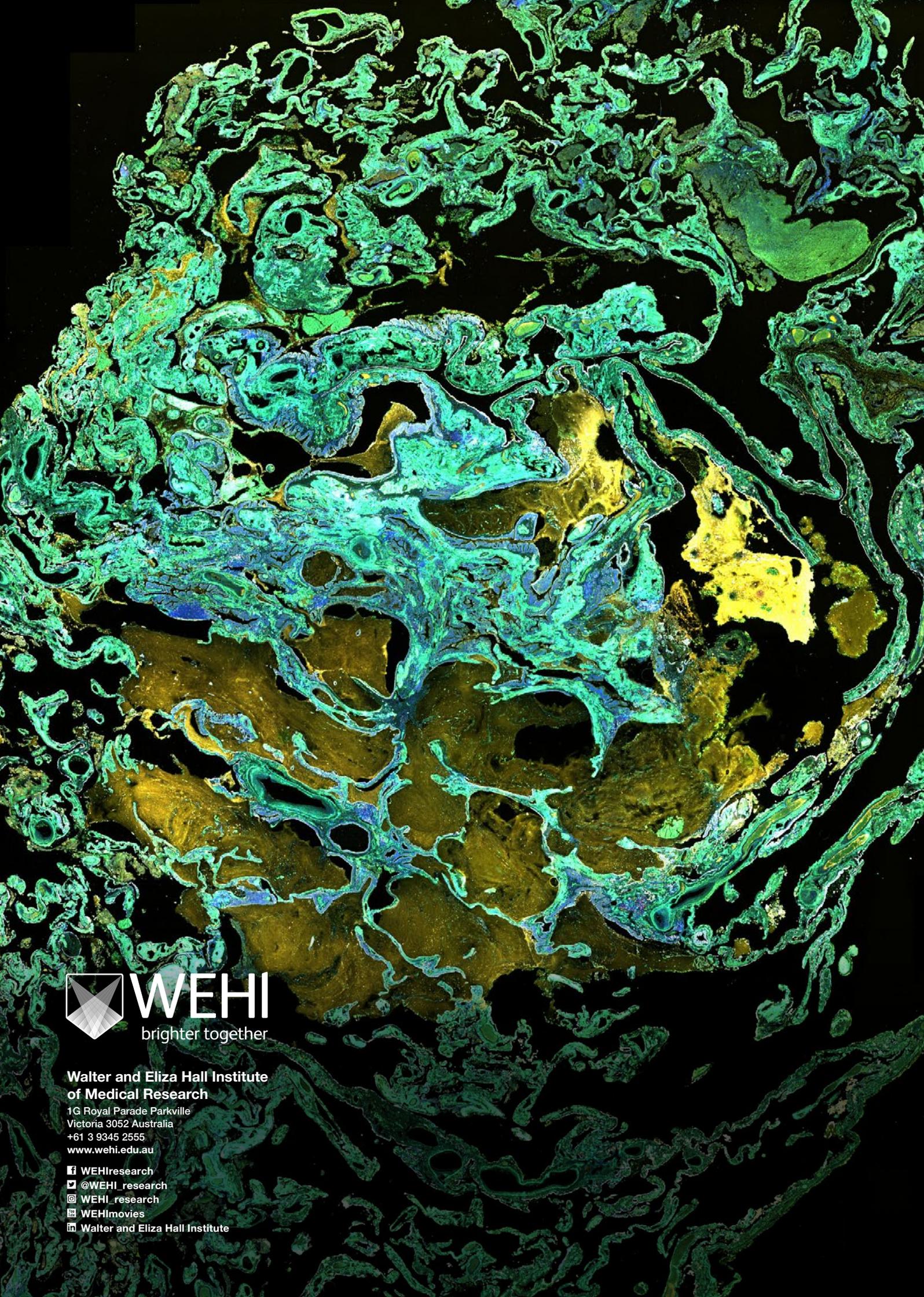
The Brain Cancer Centre's inaugural National Conference brought together the brain cancer community for insightful and inspiring conversations with research partners, collaborators, experts and families.

Speakers included Carrie Bickmore OAM, Founder and Chair, Carrie's Beanies 4 Brain Cancer Foundation, and Jaala Pulford, then Victorian Minister for Innovation, Medical Research and the Digital Economy.



The WEHI community was saddened by the passing in July of Lady Lyn Nossal, wife of Sir Gustav Nossal (WEHI director 1965–1996). Originally trained as a speech therapist, Lady Nossal later studied fine arts and history and held various roles in the Australian arts community, including as assistant director of the Ian Potter Museum at the University of Melbourne. A member of WEHI, a regular attendee at WEHI events and a passionate WEHI donor, Lady Nossal was also a patron of the arts and a strong supporter of free speech.

Pictured: Lady Lyn Nossal and Sir Gustav Nossal at the opening of the redeveloped WEHI building in 2012.



WEHI

brighter together

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of Medical Research**

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