IMPROVING THE HUMAN CONDITION

ABOUT MONASH UNIVERSITY

Monash is a global university with a presence on four continents and ambitious plans for the future.

Monash is ranked in the top 1% of world universities and a member of the Group of Eight, an alliance of leading Australian universities recognized for their excellence in teaching and research. We play a critical role in the Australian economy through a $2.2 billion contribution in annual Gross Domestic Product.

Our unique approach - a “can’t miss opportunity” mindset - means that the scope for breakthroughs is wide. We are freed with a sense of opportunity that pushes us to do things better to set new benchmarks and to break new ground.

About Monash Medicine, Nursing and Health Sciences

Monash Medicine, Nursing and Health Sciences is pioneering innovations in treatments and therapies that change the world.

By going to the people affected, we are at the heart of solving the world’s biggest problems. As a pioneer in medical research, we are consistently ranked among the world’s top universities for research excellence. We turn science, opportunity and imagination into tangible outcomes, benefiting the health of people around the globe. Our researchers are making real-world scientific breakthroughs - such as understanding superbugs - and are at the forefront of providing the care that drives behaviour and keeps people healthy.

Many of our researchers are also involved in clinical trials within Victoria’s health services, ensuring that the discoveries direct to patient care and quickly turn into real-world scientific breakthroughs into real-life treatments.

$213m+ RESEARCH INCOME IN 2018

15,000+ STUDENTS ENROLLED

#1 IN AUSTRALIA FOR PEER-REVIEWED NHMRC FUNDING IN 2018
EXCELLENCE IN TEACHING AND LEARNING

As one of Australia’s largest providers of education for doctors, nurses, allied health professionals and medical researchers, Monash Medicine, Nursing and Health Sciences is ideally positioned to build the global medical workforce of the future.

Our students are front and centre in everything we do. We work directly with leading healthcare networks to develop and improve our educational programs, and continue medical training, in the field and on-the-job learning approaches.

We utilise a “learn-to-analysis” model for our students who first develop the skills to assess cases, before students learn from teaching and work are also embedded in clinical and research settings.

A WORLD-CLASS MEDICAL EDUCATION

We offer educational programs at all levels from short and supported degrees to graduate certificates or degrees, with students progressing to higher degrees. We partner with some of the state’s leading healthcare providers, including Alfred Health, Monash Health, Eastern Health and Peninsula Health. To make sure students have access to a range of clinical and teaching opportunities from early in their course.

DELIVERING SKILLS TO WORK FROM MEND TO MIDGE

With the Bachelor of Science in Biomedical and Translational Research

We are the first University in Australia and South East Asia to offer the BA Biomedical and Translational Research. These programs give students the skills to conduct basic research leading to clinical practice, commercial applications and therapeutic products.
The healthcare sector is a rapidly changing environment that requires effective, transformational leaders to meet the challenges of our complex health system. Monash University is a leader in the development of programs that assist healthcare professionals across all disciplines to further their careers and become our future clinical and research leaders.

PROFESSIONAL DEVELOPMENT AND CONTINUING EDUCATION FOR HEALTH PROFESSIONALS

THE MONASH INSTITUTE FOR HEALTH AND CLINICAL EDUCATION (MIHCE) PROVIDES COURSES AND WORKSHOPS TO ACCELERATE CAREER DEVELOPMENT AND PROGRESSION FOR HEALTHCARE PROFESSIONALS AT ALL LEVELS. THESE COURSES AND WORKSHOPS ARE AVAILABLE GLOBALLY.

MIHCE’s specialist post-professional degrees, short courses and workshops are among the world’s best in terms of professional training and clinical education. As evidence of our trusted reputation, Monash has co-delivered specialist programs for health professionals and healthcare providers.

PROFESSOR EDMUND LEE GROUP CHAIR MEDICAL OFFICER & PROF KENNETH W. ROBERTSON OF CLINICAL RESEARCH WOMEN’S AFRICAN CLINICAL PROFESSOR, MÓNASH UNIVERSITY
BUILDING A GLOBAL HEALTH WORKFORCE

TO ACCELERATE THE EXCHANGE OF PEOPLE, IDEAS AND INFORMATION
WE HAVE BUILT STRONG PARTNERSHIPS WITH OVER 33 INSTITUTIONS
FROM AROUND THE GLOBE, INCLUDING:

HARVARD MACY INSTITUTE

This partnership delivers ongoing professional development for practitioners. We not only educate healthcare professionals, but also prepare them for leadership roles in healthcare services, governance, policy and education.

UNIVERSITY OF WARWICK

The Warwick Maslow Decision is growing our comprehensive research strengths, particularly in patient, population and policy research. The University is involved in the Maslow Annual Teaching and Learning Institute, which encourages student-led research projects and collaborative exploration and student activities.

MINISTRY OF HEALTH AND PREVENTION

Working in partnership with the Ministry of Health and Prevention (MoHAP), we deliver customized training programs to healthcare professionals in the UAE and across the Gulf region. Our expertise covers a range of health economics, health leadership and innovation, and data management, enabling the UAE to expand its healthcare sector.

NNPR CHULABHORN COLLEGE OF MEDICAL SCIENCE

By collaboration with NNPR Chulabhorn College of Medical Science has helped many Thailand’s 1st community colleges. A new interdisciplinary education program, developed by our Department of Global Health and Radiation Science, trains the country’s budding entrepreneurs, who will provide much-needed imaging expertise in rural areas.

What I love most about my degree is that we are taught by such passionate and knowledgeable academics. Everything I learn is so relevant and up-to-date. I’m in an environment where I am inspired to grow and do my best.”

BACHELOR OF NURSING AND BACHELOR OF MANAGEMENT

(Emirati) Student
OUR RESEARCH EXPERTISE AND EXCELLENCE

WE CONDUCT RESEARCH THAT MAKES MAXIMUM IMPACT THROUGH AN ONGOING PURSUIT OF EXCELLENCE AND INNOVATION. THE SCALE AND QUALITY OF OUR RESEARCH IS AMONG THE HIGHEST IN THE WORLD.

Our research is making groundbreaking discoveries that advance scientific knowledge, solve complex global problems and change people’s lives. Our academic expertise is competitive on the global stage, and we are ranked among the leading institutions in the world.

CANCER AND BLOOD DISEASES
CARDIOVASCULAR DISEASE
CRITICAL CARE, TRAUMA AND PERITONEAL MEDICINE
DEVELOPMENT, STEM CELLS AND REGENERATING MEDICINE
INFECTION, INFLAMMATION AND IMMUNITY
METABOLISM, OBESITY AND MEN’S HEALTH
NEUROSCIENCES AND MENTAL HEALTH
PUBLIC HEALTH AND HEALTH SYSTEMS IMPROVEMENT
WOMEN’S, CHILDREN’S AND REPRODUCTIVE HEALTH

LANDMARK STUDY INITIATES ESPIRIT trial
Landmark study initiates espirit trial

A landmark study that has been started in Australia will begin to test whether a protein, called espirit, can prevent heart disease in people who are at risk of developing it. The study, called ESPirit, is funded by the National Health and Medical Research Council and is led by Professor Peter Kloner from the Monash Heart Institute. The trial is expected to recruit 3000 participants over three years, with results expected to be available in 2020.

WORLD-FIRST THERAPY HELPS PREMATURE BABIES
World-first therapy helps premature babies

A team from the Baker Institute of Medical Research, led by Dr. John Hearn, has developed a new therapy for premature babies. The therapy involves a combination of stem cells and a protein called EPO, which helps to improve the brain development of premature babies. The therapy has been successful in improving the brain development of premature babies who were at risk of developing cerebral palsy.

TRIAL SOLVES AGE-RELATED DEATHS
Trial solves age-related deaths

A global study led by Monash University and the University of Melbourne has found that age-related deaths can be prevented by using a novel treatment called “age-reversal therapy.” The therapy involves the use of stem cells to rejuvenate the body’s cells and tissues, which can reduce the risk of age-related diseases.


OUR 2018 RESEARCH HIGHLIGHTS

1600+ RESEARCHERS
1400+ PhD STUDENTS
53% OF RESEARCH OUTPUTS PUBLISHED IN Q1 JOURNALS
42% OF PUBLICATIONS WITH GLOBAL CO-AUTHORS
$213m+ RESEARCH INCOME
$66m+ INDUSTRY AND OTHER FUNDING
$34m+ INTERNATIONAL FUNDING
#1 IN AUSTRALIA FOR NHMRC FUNDING

Our performance in medical and health sciences, biological sciences, and psychology and cognitive sciences is ranked well above world standard.*

*Performance in Research for Australia (ERA) ratings 2018.

We are the University’s largest research faculty and have established a reputation for the quality and impact of our research in health care and the biosciences. Beyond basic science we have a very clear focus on translational research: taking our frontier scientific discoveries and converting these into measurable human health benefits.”

PROFESSOR RON SKEFF
DEAN (MEDICINE) AND DIRECTOR OF RESEARCH WOLFE, NURSING AND HEALTH SCIENCES VETERANS AFFAIRS

IMPROVING THE HUMAN CONDITION
OUR RESEARCH INSTITUTES AND CENTRES

ACHIEVING WORLD-LEADING BREAKTHROUGHS IN THE FIELD OF MEDICAL RESEARCH REQUIRES A DEEP COMMITMENT TO INTERDISCIPLINARY RESEARCH. OUR RESEARCH INSTITUTES AND CENTRES CONNECT AND HARNESS EXPERTISE FROM ACROSS THE UNIVERSITY, ENABLING US TO ADDRESS SOME OF THE WORLD’S MOST COMPLEX RESEARCH PROBLEMS.

Monash Biomedicine Discovery Institute (BDI)
With more than 110 internationally renowned research teams, Monash BDI is one of the largest and most highly rated medical research institutes in Australia. Monash BDI works with national and international biomedical research to improve health globally, addressing cancer, cardiovascular diseases, chronic and rare disorders, injury and trauma, metabolism, diabetes and obesity, and infectious diseases.

Recent research discoveries at Monash BDI:
- Identified a rare genetic link to an early and severe form of diabetes (Nature Genetics, 2019).
- Developed a new treatment for a type of cancer that affects children and adults (Science Advances, 2019).
- Identified new targets that could help in the development of new treatments for diabetes and related disorders (Nature Communications, 2018).}

Monash BDI works with industry partners and technology companies to develop its discoveries, turning them into the biggest impact in health and industry.

Australian Regenerative Medicine Institute (ARMI)
ARMI is a medical research institute dedicated to advancing the regenerative capabilities of the human body. ARMI is one of the largest regenerative medicine and stem cell research hubs in the world, hosting 19 research groups, four clinical and translational programs, and 100 researchers.

Recent research discoveries at ARMI:
- Discovered potential new treatment for the disease Huntington's disease (Cell Reports, 2019).
- Identified a new mechanism for the treatment of neurodegenerative disease: the amyotrophic lateral sclerosis-symptomatic complex (Nature Medicine, 2014).
- Uncovered potential new treatments for age-related diseases, such as Alzheimer’s disease and Parkinson’s disease (Cell Reports, 2018).

The ARMI Institute works with industry and the community to rapidly turn the knowledge we generate into innovative treatment and discoveries. Monash established ARMI in 2017 to enable Australian researchers to establish an extensive center dedicated to commercialisation of regenerative medicine and cell therapy.

Turner Institute for Brain and Mental Health
The Turner Institute brings together world-leading researchers and experts in translational research and clinical medicine to advance treatment for neurological and mental health conditions and build sustainable health communities.

Recent research discoveries at the Turner Institute:
- Developed a new treatment for a rare and debilitating genetic disorder (Nature Medicine, 2018).

The Turner Institute works with industry and the community to rapidly turn the knowledge we generate into innovative treatment and discoveries. Turner Institute established in 2017 to enable Australian researchers to establish an extensive center dedicated to commercialisation of regenerative medicine and cell therapy.

Monash Institute of Medical Engineering (MIME)
The MIME focuses on the discovery, development and translation of innovative technologies to improve the human health. MIME’s multidisciplinary teams of researchers, together works to develop and translate medical technologies for the heart, brain, skin and cancer.

Recent developments at MIME:
- Developed a new treatment for a rare and debilitating genetic disorder (Nature Medicine, 2018).

The MIME Institute works with industry and the community to rapidly turn the knowledge we generate into innovative treatment and discoveries. MIME is established in 2017 to enable Australian researchers to establish an extensive center dedicated to commercialisation of regenerative medicine and cell therapy.

13 MONASH RESEARCHERS MADE THE 2018 HIGHLY CITED RESEARCHERS LIST
$25m+ AWARDED IN NRF-FUNDING BETWEEN 2017 AND 2018

IMPROVING THE HUMAN CONDITION
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PARTNERSHIPS WITH HEALTH SERVICES

MONASH PARTNERS

OUR INVOLVEMENT IN THE MONASH PARTNERS ACADEMIC HEALTH SCIENCE CENTRE ENABLES US TO COLLABORATE WITH PUBLIC AND PRIVATE HEALTH CARE PROVIDERS AND DELIVER IMPROVED HEALTH ON A NATIONAL AND GLOBAL LEVEL. MONASH PARTNERS MEMBERS INCLUDE:

- Alfred Research Alliance (Pranada)
- Monash Health Translational Project (Croydon)
- Peninsula Health Project (Traralgon)
- Monash Rural Health
- Monash Rural Health Education and Research Project (Bundaleer)
- Mildura Health Education and Research Project (Mildura)

Alabama, Mobile, Huntsville, Birmingham, Montgomery, Tuscaloosa, Aiken, Augusta, Columbia, Greenville, Florence, Charleston

- HUDDO
- Bakers
- Peninsula Health
- Monash University
- Eastern Health
WE ARE A TRULY GLOBAL FACULTY WITH A FOOTPRINT THAT EXTENDS ACROSS THE WORLD. WE HAVE BUILT STRONG GLOBAL RESEARCH NETWORKS AND PARTNERSHIPS WITH GOVERNMENTS, INDUSTRIES AND COMMUNITIES.

FUNDING SUCCESSES
In the last five years we have seen substantial growth in our international competitive research income. Between 2016 and 2020, we increased our $84 million initial international income base by 78% to reach $144 million in 2020.

A breakthrough project led by Professor Dan Lambie-Dixon of the Curtin Health Innovation Research Institute’s Centre for Addictions Research has led to an enlarged research proposal that has the potential to develop a world-first suicide surveillance system with the potential to set the new global standards for suicide prevention efforts.

Finalising the Functional Stress Hormones Laboratory 360° project will also support the world first APILERT® at TopTen binary analyses at Monash University and the US-based Monash Healthcare Research Institute as they expand on the science of the initial APILERT, with a five-year vision of $600,000 unique-term effects of low dose agen matching other factors that may impact the health of the elderly.

INTERNATIONAL RESEARCH INCOME
$34.7m
$23.1m
$25.1m
$17.6m

INTERNATIONALLY CO-AUTHORED PUBLICATIONS
WORLD-CLASS TECHNOLOGY RESEARCH PLATFORMS

INNOVATION REQUIRES SMART, CREATIVE COLLABORATION AND MONASH HAS FOSTERED THIS WITH THE CREATION OF THE MONASH TECHNOLOGY RESEARCH PLATFORMS.

This nimble technology shop provides a married research service which is also available in our industry and collaborative research partners. Monash has the capability to base complex research then discovery through its commercialisation.

More than 20 of our world class technology research platforms of research with research infrastructure.

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Teaching, research and patient care tend to be siloed. To develop novel advances in cardiovascular care, we need the ability to integrate those three elements. The Victorian Heart Hospital will address grand challenges in cardiovascular health to develop translation-directed therapeutic innovations.”

PROFESSOR STEPHEN MULLISON
SENIOR VICE-PRESIDENT OF CARDIOLOGY
VICTORIA HEART HOSPITAL