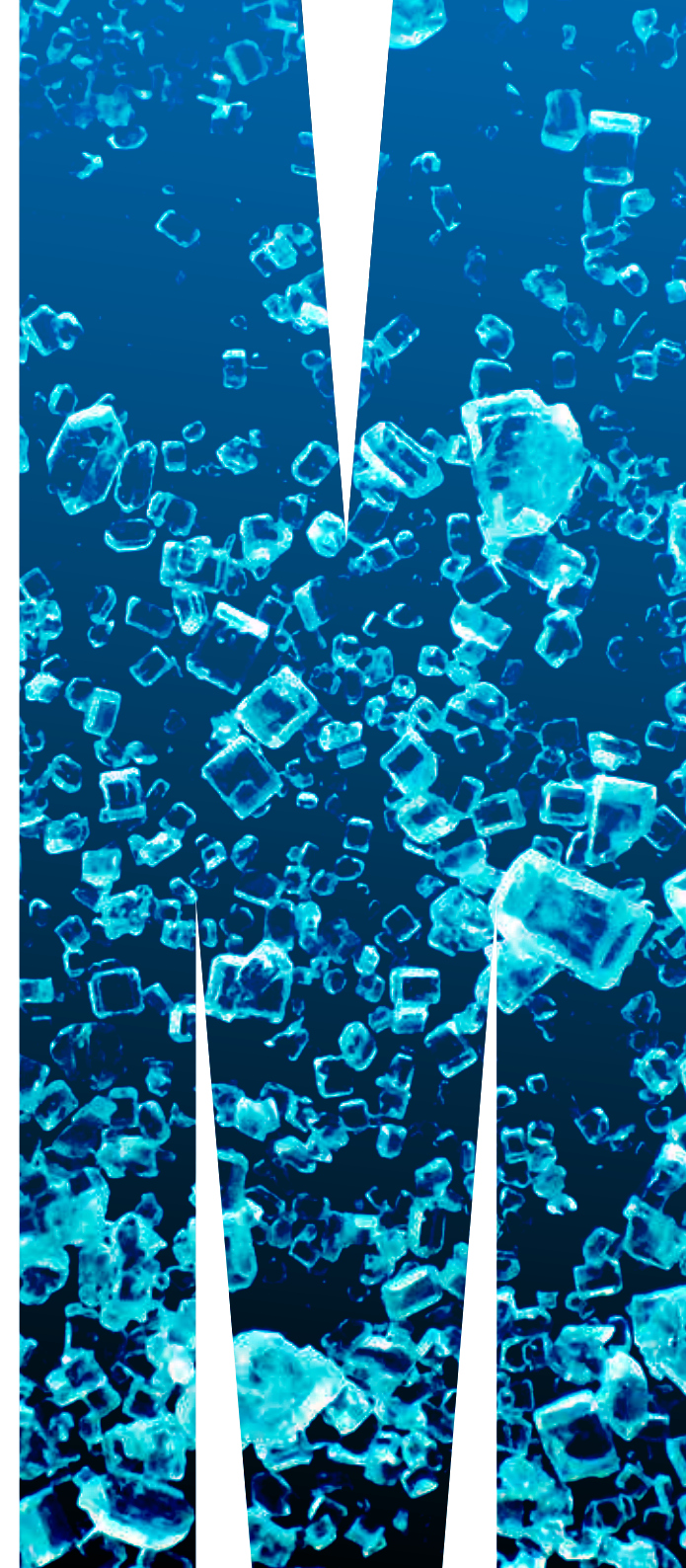


AUSTRALIA'S
FIRST DEDICATED
DEPARTMENT
OF DIABETES





AT A GLANCE

WHO WE ARE

Monash University's Department of Diabetes is the first and only university department in Australia specifically focusing on diabetes. Established in early 2017, we are located within the Central Clinical School of the Faculty of Medicine, Nursing and Health Sciences – a leading provider of healthcare education and research in Australia.

With more than 60 scientists and students involved across 10 critical areas of diabetes research, our clinical research takes a bench to bedside approach to directly improve outcomes for patients. This integrated way of solving this major global health challenge is due to our strong collaborations with healthcare providers. These local, national and international partnerships give us the opportunity to work closely with clinicians and patients to translate findings from the lab into clinical trials or treatments that will have tangible health benefits for people and communities.

WHAT WE DO

Diabetes is an exploding epidemic and the biggest challenge confronting Australia's health system. Around 1.7 million Australians have diabetes, with 280 Australians developing the disease every day. This makes it the fastest growing chronic condition in the country. In 2013, diabetes caused 5.1 million deaths globally.

- One of the major objectives of the department is the clinical translation of research findings to benefit patients.
- Nurture young research talent through mentoring during PhD projects
- Our team is working on diverse strategies – from dietary intervention to new pharmacological approaches – to combat diabetes and its complications; the three most significant of which are kidney disease, heart disease and blindness.

FAST FACTS



60

RESEARCHERS



10

CRITICAL AREAS



50

CURRENT AND COMPLETED
PHD STUDENTS



576

PUBLICATIONS



OUR IMPACT

EXCEPTIONAL RESEARCH, GLOBAL LEADERS

We are led by two internationally renowned diabetes specialists, Professor Mark Cooper AO and Professor Paul Zimmet AO, working with a team of talented and dedicated researchers.

For more information about our team, please visit our website:
med.monash.edu/cecs/diabetes



Professor Paul Zimmet AO



Professor Mark Cooper AO

OUR CASE STUDIES

ACE INHIBITORS SLOW DOWN KIDNEY DISEASE

Professor Mark Cooper's groundbreaking research from the 1980s identified enzymes (angiotensin-converting-enzyme [ACE] inhibitors and angiotensin II receptor blockers [ARB]) that decrease the amount of protein in the urine, which in turn slow or even prevent the progression to diabetes-related kidney disease. The research was sufficiently promising to progress it through pre-clinical trials, then human trials, and the findings have been widely incorporated into medications and treatment protocols around the world.



Dr Tom Karagiannis with his Epigenomic Medicine group.

USING NOX ENZYMES TO COMBAT KIDNEY AND HEART DISEASE

Innovative research by Monash scientists has progressed to clinical trials in humans for the treatment of kidney disease. Professor Karin Jandeleit-Dahm and her team have shown that an enzyme known as a NOX inhibitor, reduced inflammation and could even reverse complications which had already progressed in diabetic patients. The results using the novel NOX inhibitor in diabetic nephropathy will form the basis of clinical trials later this year at the Alfred campus.



Dr Jay Jha, NHMRC Early Career Fellow in Professor Karin Jandeleit-Dahm's group, who works on cell surface enzymes.

DIABETES FACTS

1.7M
MILLION AUSTRALIANS
DIAGNOSED WITH DIABETES



5.1M
MILLION DEATHS GLOBALLY



1/9
HEALTH DOLLARS
IS SPENT ON DIABETES



\$1TN
ESTIMATED TO RISE PAST
ONE TRILLION DOLLARS (AUD)
PER ANNUM WORLDWIDE
(International Diabetes Foundation)

OUR NETWORK

COLLABORATING AND CONNECTING WITH THE BEST IN THE WORLD /GLOBAL PARTNERSHIPS

Our research leaders have an outstanding international reputation and are active in extensive research collaborations with leading scientists and institutions around the world. These have included recent collaborations with two major institutions in Tel Aviv (Tel Aviv Sourasky Medical Center and the University of Tel Aviv), Bar-Ilan University and University College Dublin.

PARTNERING WITH US

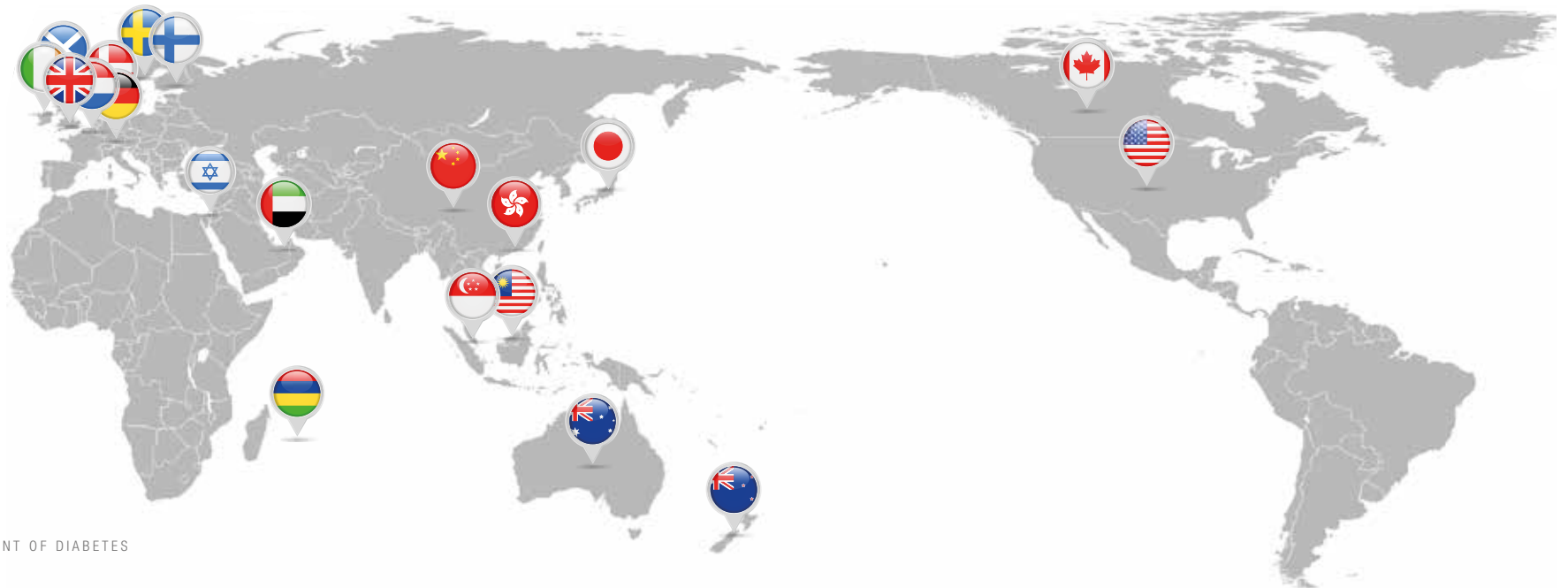
Our vision is for a world where the incidence of diabetes is shrinking, not growing, and where there are effective and affordable treatments available to all affected by the disease.

Achieving this aim requires a coordinated approach and the support of many to ensure our cutting-edge research can be successfully translated into medical practice.

Through the support of our generous donors we have been able to support our young scientists with their research fellowships, purchase the latest equipment and technologies to ensure we remain at the forefront of global diabetes research, and allow us to contribute to the crucial commercialisation of our team's key research findings so they reach patients sooner.

We are extremely grateful for the significant donations of the Meydan and Jreissati families who have helped to establish this Australian first dedicated Department of Diabetes for Monash University.

MONASH UNIVERSITY DEPARTMENT OF DIABETES INTERNATIONAL COLLABORATIONS



ENGAGING WITH THE WIDER COMMUNITY

We share our diabetes research and treatment achievements through:

- Clinical treatment of diabetic patients
- Professional education of medical practitioners who work with diabetic patients
- Open days, discovery tours and public lectures
- Publication of research discoveries through peer reviewed journals.

‘THE FALL IN MORTALITY FROM DIABETES IS LIKELY TO BE ONE OF THE GREATEST SUCCESS STORIES IN MEDICINE SINCE VACCINES.’

Professor Paul Zimmet

Honorary President of the International Diabetes Federation

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|  AUSTRALIA | 2 |  MALAYSIA | 1 |
|  CANADA | 4 |  MAURITIUS | 1 |
|  CHINA | 2 |  NETHERLANDS | 2 |
|  DENMARK | 1 |  NEW ZEALAND | 1 |
|  FINLAND | 3 |  SCOTLAND | 2 |
|  GERMANY | 4 |  SINGAPORE | 2 |
|  HONG KONG | 2 |  SWEDEN | 2 |
|  IRELAND | 3 |  UAE | 1 |
|  ISRAEL | 3 |  UNITED KINGDOM | 3 |
|  JAPAN | 1 |  UNITED STATES | 9 |

FURTHER INFORMATION

Contact us

Whether you want to research,
invest, study or partner with us,
we'd be delighted to hear from you.

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AlfredHealth

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