

Victoria

Chief Investigators

CIA Prof Antony Burgess
CIB A/Pr Andrew Scott
CIC Prof Richard Simpson
CID Dr Thomas Garrett
CIE A/Pr Martin Lackman
CIF A/Pr Matthias Ernst
CIG A/Pr Robert Ramsay
CIH A/Pr Joan Heath
CII Prof Frank Caruso

Scientific Title Colorectal cancer - molecular basis to targeted therapeutics.

Administering Institution Ludwig Institute for Cancer Research

Recommended Budget \$19,611,955.56

Lay Description

Cancer of the colon and rectum is the most common form of cancer in Australia. Over 12,000 people are diagnosed each year with colorectal cancer (CRC) and more than one third of people will die of their disease. CRC is caused by mistakes in production of colon cells. Our research aims to discover new ways to detect CRC and develop smart drugs and nanoparticle delivery systems for destroying all types of CRC cells. We will then test our new anti-cancer drugs in clinical trials with CRC patients.

Chief Investigators

CIA Prof Patrick Sexton
CIB Prof Arthur Christopoulos
CIC Prof Roger Summers

Scientific Title Understanding G Protein-coupled receptors (GPCRs): accelerating discovery from concept to clinic.

Administering Institution Monash University

Recommended Budget \$6,501,506.67

Lay Description

G Protein-Coupled Receptors (GPCRs) form the largest family of receptors (and thus drug targets) in living organisms. Currently, the major reason that new drugs fail to reach the clinic is lack of appropriate drug effect (approx. 30%). Thus, we need a better understanding of how GPCRs work and how this relates to disease. Our Program addresses this knowledge gap, using GPCR models that are relevant to treatment of metabolic, cardiovascular and central nervous system disease.

New South Wales

Chief Investigators

CIA Prof David Cooper
CIB Dr Michael Beard
CIC Dr Gregory Dore
CID Dr Sean Emery
CIE Prof Martyn French
CIF Dr Anthony Kelleher
CIG A/Pr Stephen Kent
CIH Prof Andrew Lloyd
CII Dr Damian Purcell

Scientific Title HIV & HCV Vaccines and Immunopathogenesis.

Administering Institution University of New South Wales

Recommended Budget \$17,734,213.33

Lay Description

The development of vaccines and better treatments for HIV/AIDS and Hepatitis C are urgent global health priorities. This Program will undertake studies to better understand effective immunity against HIV and hepatitis C, allowing the rational design and testing of novel vaccines and treatments. The Program brings together a team of researchers with skills in basic virology and immunology with those providing expertise in translating findings in the laboratory into human clinical trials.

Queensland

Chief Investigators

CIA Prof Thomas Marwick

CIB Prof Simon Stewart

Scientific Title Integration of Risk Evaluation in Cardiovascular Disease Management Programs.

Administering Institution University of Queensland

Recommended Budget \$4,568,853.33

Lay Description

This study will determine the feasibility of a coordinated health care team approach to the treatment of cardiovascular disorders. It will examine a range of issues – who would most benefit from this approach, its value for money, the relative importance of health care services to consumers, and where to invest additional health funds. Built on strong collaborations between expert researchers in advanced diagnostic techniques, coordinated health care, community health care and health economics, this provides a unique opportunity to benefit millions of Australians.