



THE UNIVERSITY OF
MELBOURNE

Centre for Cancer Research

Faculty of Medicine, Dentistry and
Health Sciences



CENTRE FOR CANCER RESEARCH

FOSTERING INNOVATION AND
INTEGRATION IN CANCER CARE,
RESEARCH, EDUCATION AND TRAINING.

research.unimelb.edu.au/umccr

FOSTERING INNOVATION AND INTEGRATION IN CANCER CARE, RESEARCH, EDUCATION AND TRAINING.

Led by Professor Sean Grimmond, the University of Melbourne Centre for Cancer Research (UMCCR) brings together leading cancer researchers from across the University of Melbourne to drive collaboration and achieve improved outcomes for cancer patients.

Our mission is to improve the outcomes for patients with cancer through genome discovery, translation, personalised medicine and cancer care. Our vision is to see innovative and internationally competitive precision oncology available to patients diagnosed with cancer by 2020.

Our research targets key points along the patient journey, from cancer diagnostics, defining the cause of familial predisposition, selection of optimal therapies, combatting recurrence, health data and policy, general practice, nursing and palliative care.

We are seeking to redefine the standard of care for cancer patients, with a focus on rare, recalcitrant and advanced cancers that are resistant to standard therapies.

The UMCCR is developing precision oncology and models of cancer care to ultimately improve survival rates and create greater quality of life for cancer patients.

For more information, visit research.unimelb.edu.au/umccr



OUR RESEARCH



Cancer in Primary Care Professor Jon Emery

Exploring the role of primary care across the cancer continuum, including studies on cancer screening, cancer diagnosis and survivorship care.



Cancer Nursing Professor Meinir Krishnasamy

Developing new and translating existing knowledge into practice to enhance the experience and outcomes of people affected by cancer, and the efficiency of health service delivery.



Colorectal Oncogenomics Associate Professor Daniel Buchanan

Identifying and investigating clinically and biologically relevant subtypes of colorectal cancer, including hereditary colorectal and polyposis syndromes.



Colorectal Cancer Epidemiology

Professor Mark Jenkins

Undertaking a comprehensive approach to reduce the burden of colorectal cancer and improve results for patients.



Gastrointestinal Cancer Professor Alex Boussioutas

Investigating translational aspects of gastrointestinal oncology, spanning population health and epidemiology, integrative genomics, cell biology and early detection.



Genetic Epidemiology Professor Melissa Southey

Characterising the genetic and epigenetic factors responsible for cancer predisposition and progression, including familial aggregation of cancers.



Genomics Platform Group Associate Professor Oliver Hofmann

Improving the scalability and reliability of sequencing workflows, better detection of changes in cancer genomes, and aiming to make tumour data accessible in real time.



Precision Oncology

Professor Sean Grimmond

Exploring mutational signatures of DNA and their contributions to individual tumours, through rapid genomic analysis.



Rare Disease Oncogenomics

Dr Richard Tothill

Dedicated to translational research of rare and less common cancers, encompassing neuroendocrine tumours and cancer of unknown primary.



Single Cell Innovation Dr Luciano Martelotto

The creation and/or implementation of new technologies to understand how cells collectively perform systems-level functions in healthy and diseased states.



Tumour Heterogeneity in Metastatic Cancer

Associate Professor Frédéric Hollande

Understanding the mechanisms that underlie the genetic and non-genetic heterogeneity within individual tumours and characterising the role it plays on metastatic progression and treatment response.



VCCC Palliative Medicine Research Group

Professor Jennifer Philip

Seeking to effect positive and systemic change in palliative care practice and accelerate the translation of research-generated knowledge to improve patient care.



Play a part in the development of life-changing discoveries for cancer patients

Get in touch to discuss research and career opportunities, study pathways, industry collaborations, and philanthropic donations.

 **University of Melbourne Centre for Cancer Research**

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The University of Melbourne Faculty of Medicine, Dentistry and Health Sciences

The University of Melbourne Centre for Cancer Research is a centre of the world-leading University's Faculty of Medicine, Dentistry and Health Sciences, led by Dean and Assistant Vice-Chancellor (Health) Professor Shitij Kapur. The Faculty has extensive links with hospitals, leading research institutes, the public and private sectors, and is internationally renowned for global leadership in health research, policy and practice.

The Victorian Comprehensive Cancer Centre

In the genomics era, partnerships are critical to advancing cancer research. The University of Melbourne is a proud partner of the Victorian Comprehensive Cancer Centre (VCCC) alliance, facilitating the sharing of infrastructure and supporting collaboration between 10 leading medical research, academic and clinical institutions. The VCCC partners work strategically together, integrating cancer research, clinical trials and education to enable and accelerate the translation of scientific evidence into patient and community benefit.



FACULTY OF MEDICINE DENTISTRY AND HEALTH SCIENCES

CENTRE FOR CANCER RESEARCH

- Precision Oncology
- Genomics Platform Group

MELBOURNE MEDICAL SCHOOL

- Cancer in Primary Care
- Gastrointestinal Cancer Research
- Colorectal Oncogenomics
- Tumor Heterogeneity in Metastatic Cancer
- Rare Disease Oncogenomics
- Single Cell Innovation
- Genetic Epidemiology
- VCCC Palliative Medicine Research Group

SCHOOL OF HEALTH SCIENCES

- Cancer Nursing Research

SCHOOL OF POPULATION AND GLOBAL HEALTH

- Colorectal Cancer Epidemiology