

Cancer and Cell Biology

Cancer Epigenetics Laboratory

Laboratory Head: Associate Professor Pilar Blancafort
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Project 1: Development of a novel strategy using engineered peptides to selectively sensitise metastatic breast cancers to chemotherapy agents

Project 2: Engineering the cancer epigenome and targeting metastatic behaviour using CRISPR/Cas9

Project 3: Discovery and characterisation of new oncogenic drivers in breast cancer

Laboratory for Cancer Medicine

Laboratory Head: Professor Peter Leedman

For further information

peter.leedman@perkins.org.au

Cell Signalling Group

Laboratory Head: Associate Professor Evan Ingley
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Project 1: Hitting the off-switch to stop cancer cells spreading - Control of migration and invasion by the invadopodia regulator AFAP1L1 in sarcoma

Project 2: Personalized Medicine for Sarcoma Patients - Using next generation sequencing and bioinformatic analysis to match the most effective chemotherapy to each sarcoma patient

Project 3: Improving the quality of blood during storage and transfusion for cancer patients - Investigating the role of tyrosine kinases in regulating integrity and longevity of red blood cells

Clinical Science

Bioimaging Research and Innovation or Translational Engineering Laboratory

Laboratory Head: Dr Brendan Kennedy

For further information

brendan.kennedy@uwa.edu.au

Centre for Clinical Research in Emergency Medicine

Laboratory Head: Professor Daniel Fatovich

Daniel.Fatovich@health.wa.gov.au

Project 1: Relationship between fluid resuscitation and the endothelium in sepsis

Project 2: Anaphylaxis and Snakebite: Mechanisms of activation of immune cells by antivenoms

Project 3: MicroRNAs as biomarkers for the diagnosis of critical illness

Project 4: Unravelling the association between delirium and attendance by older people from aged care to the emergency department

Project 5: Creating a 3-D blood vessel-on-a-chip: investigating vascular responses in critical illness.

Translational Renal Research Laboratory

Laboratory Head: Dr Aron Chakera

aron.chakera@uwa.edu.au

Project 1: Developing novel diagnostics for the earlier detection and treatment of peritonitis

Project 2: The role of mesothelial cells in peritoneal-dialysis associated peritonitis

Project 3: Understanding bacterial factors that predict more severe disease

Project 4: Using peritoneal dialysis as a uniquely accessible human system to study host-pathogen interactions linked to standardized clinical outcomes

Vascular Engineering Laboratory

Laboratory Head: A/Prof Barry Doyle

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For further information please visit our website and contact Barry.

<http://vasclab.mech.uwa.edu.au>

Molecular Medicine

Epigenetics and Genomics Laboratory

Laboratory Head: Professor Ryan Lister
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Project 1: Developing new molecular tools to edit the epigenome

Project 2: Investigating epigenome reconfiguration during learning and memory

Project 3: Artificial manipulation of human cell identity

Molecular Endocrinology and Pharmacology Laboratory

Laboratory Head: Professor Kevin Pflieger
kevin.pflieger@uwa.edu.au

Project 1: Investigation of G Protein-Coupled Receptor Molecular Pharmacology

Mitochondrial Medicine and Biology Laboratory

Laboratory Head: Professor Aleksandra Filipovska
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Project 1: Energy dysfunction in prostate cancer

Project 2: The role of metabolism in obesity and insulin resistance

Project 3: Characterising the pathology of heart disease

Project 4: Developing new models of disease using CRISPR/Cas technologies

Project 5: The role of protein syntheses in health and disease

Neurogenetic Diseases Laboratory

Laboratory Head: Professor Nigel Laing AO
nigel.laing@perkins.org.au

Project 1: Disease gene discovery

Project 2: Devising and evaluating therapies for neurogenetic diseases

Synthetic Biology and Drug Discovery Laboratory

Laboratory Head: Professor Oliver Rackham
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Project 1: Beyond CRISPR-Cas9: new tools to manipulate genes

Project 2: Mitochondrial protein synthesis – a master regulator of disease?

Project 3: Using synthetic biology to create new therapeutics

