

Making cancer therapy safer – new strategies to alleviate cancer therapy side-effects

Project Title:	Making cancer therapy safer - new strategies to alleviate cancer therapy side-effects.
Project duration:	This project is more suitable for MPhil and PhD students and involves preclinical animal models of disease.
Description:	<p>About 80% of all Australian cancer patients experience adverse outcomes following their cancer therapy. Adverse cancer therapy side-effects can greatly impact quality of life, can directly lead to patient death and/or require treatment pause, thus compromising a patients' chance of cure.</p> <p>This project seeks to identify the underlying pathways that cause adverse cancer therapy outcomes, then use this knowledge for new therapeutic strategies to prevent them.</p> <p>Anticipated Impact of this research may include improved quality of life for cancer therapy patients and their family through a new treatment strategy to alleviate long and short term cancer therapy side-effects.</p>
Expected outcomes and deliverables:	<ul style="list-style-type: none"> • New knowledge gain in the fields of cancer biology, immunology and inflammation, how micro-environments change with disease. • Acquisition of sought after skills in preclinical animal models of disease: including study of cancer therapy outcomes (therapy induced neurotoxicity, cardiotoxicity immune-suppression and mucosal/gastrointestinal impacts), inflammation and stem cell biology. • Building bridges between basic biological research discoveries and translational research.
Suitable for:	<ul style="list-style-type: none"> • Students with a passion for science and discovery. • Students comfortable with translational studies involving preclinical animal models of disease (which involve responsibility). • Student with good communication and organisational skills, plus an attention to detail and care.
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