

# Impact of gut microbiota on cancer therapy outcomes

## Project Description

Project duration:	One year minimum research focused project for Honours, PhD or MPhil students.
Description:	<p>It is well recognized that gut microbiota shapes the human immunity and play important role in regulating nearly all aspect of human disease development. Literature suggests that antibiotic administration leads to worse side-effects in patients treated with cancer therapies.</p> <p>In this project, we aim to understand how the disruption of gut microbiota can lead to local tissue damage and contribute to increased side-effects of cancer therapy in pre-clinical mouse models.</p>
Expected outcomes and deliverables:	<ul style="list-style-type: none"> <li>• New skills – mouse handling, flow cytometry and ELISA etc.</li> <li>• New knowledge gain in the field of cancer therapy which could lead to new strategies in minimising side effects of current cancer therapies.</li> <li>• Potential manuscript publication.</li> <li>• Presentation opportunities at local conference or seminars.</li> </ul>
Suitable for:	<ul style="list-style-type: none"> <li>• A genuine interest in immunology, molecular biology or related fields.</li> <li>• Previous lab-based research experience is highly desirable but not essential.</li> <li>• Good communication and organization skill and attention to details.</li> </ul>
Primary Supervisor:	A/Prof Ingrid Winkler
Further info:	<p>If you would like applicants to contact your unit for further information, please provide the relevant contact details here. Please highlight if the supervisor wishes to be contacted by students prior to submitting an application.</p> <p>e: <a href="mailto:ingrid.winkler@mater.uq.edu.au">ingrid.winkler@mater.uq.edu.au</a></p>