

Impact of gut microbiota on cancer therapy outcomes

Project Description

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| Project Title: | Impact of gut microbiota on cancer therapy outcomes |
| Project duration: | This project is more suitable for PhD and MPhil students and involves preclinical animal models of disease |
| Description: | <p>It is well recognized that gut microbiota shapes human immunity and plays important roles in regulating nearly all aspects of human disease development. The literature also suggests that antibiotic administration may lead to worse side-effects in patients treated with cancer therapy.</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"> • New knowledge gain in the fields of inflammation and cancer therapy which could lead to new strategies to improve treatment outcomes. • Acquisition of sought after skills –preclinical animal models of disease, molecular and immuno-assays. • 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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