

MRI-UQ Winter Research Project Description

Project title:	Profiling of humoral immune signatures in patients with cancer
Project duration:	6 weeks
Description:	<p>Patients with cancer develop antibodies against tumour antigens. Characterising the antibody repertoire may provide insights into aberrant cellular mechanisms in cancer development, ultimately leading to novel diagnostic or therapeutic targets. The aim of this project is to characterise the antibody profiles in a cohort of patients with cancer to see if there is a difference in patients with the disease and/or treatment. Individual serum samples from patients with cancer will be profiled on a 37 830 clone recombinant human protein array. Immunoglobulin G (IgG) antibody profiles will be identified in individual patients, compared to controls and correlated with clinical data.</p>
Expected outcomes and deliverables:	<p>Participants will gain hands-on laboratory experience working with clinical samples (patient serum) and state-of-the art high throughput protein array technology on the verge of cancer research and immunology. Participants are expected to perform a full immune profile analysis of a designated patient cohort including data analysis.</p>
Suitable for:	<p>Individuals interested in laboratory-based research with a strong clinical aspect particularly in the field of cancer and immunology.</p> <p><i>Note: It is a mandatory requirement for students participating in the project to be vaccinated for Hepatitis B prior to the commencement of the project.</i></p>
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