Niche regulation of T cells in multiple sclerosis

HDR/ Honours Project Description

Project Title	Niche regulation of T cells in multiple sclerosis
Project duration:	One year minimum research focused project for Honours, PhD or MPhil students
Description:	Inflammatory T cell response is regulated by the microenvironment including nutrient, microbiota, and innate immune cells. In addition to existing niche regulators, we are interested in looking at vasculature adhesion molecules as novel niche regulator in shaping inflammatory T cell response in pre-clinical model of multiple sclerosis.
Expected outcomes and deliverables:	This is a translational project involving research in understanding the basic mechanism of T cells activation via in vitro assays and confirming findings in IBD patient samples. Candidates can expect to • gain knowledge in areas of multiple sclerosis, T cell immunology. • learn technique in areas including primary cell culture, molecular and immunological assays. • We expect to generate novel data with commercial interest and produce high-quality publications.
Suitable for:	• A genuine interest in immunology, molecular biology, or related fields. • Previous lab-based research experience is highly desirable but not essential. • Good communication and organization skill and attention to details.
Primary Supervisor:	Dr Ran Wang
Further info:	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. ran.wang@mater.uq.edu.au