THE UNIVERSITY OF QUEENSLAND
AUSTRALIA

Centre for Advanced Imaging

PhD Scholarship in Understanding the role of the complement system in post-traumatic epilepsy

Organisation Unit: The University of Queensland, Queensland Brain Institute; hosted at the Centre for Advanced Imaging

About the project:
Traumatic Brain Injury (TBI) is a significant health issue and is frequently complicated by the development of epilepsy. A substantial body of evidence supports a key role for inflammation in epileptogenesis, the pathological process that leads to the development and progression of spontaneous recurrent epileptic seizures. It is also well recognized that TBI induces a vigorous inflammatory response. This PhD explores the premise that therapies directed against inflammation may prevent or ameliorate post-traumatic epilepsy. It focuses on the complement system, a potent effector of innate immunity. The 3 year project will involve extensive behavioural tests in mice, electroencephalography, MRI, PET and immunohistology. A suitable candidate will also have the opportunity to collaborate on other projects.

Candidates with recent experience in animal handling and behaviour, immunohistology, molecular biology, EEG and MRI are preferred. The candidate should be enthusiastic about learning new techniques and work both independently and in a team environment. The PhD candidate will be enrolled in the Queensland Brain Institute and hosted at the Centre for Advanced Imaging, The University of Queensland.

To apply for admission and scholarship, follow the link below. There is no separate application for a scholarship because you will be given the opportunity to request scholarship consideration on the application for admission.

Prior to applying, check your eligibility and prepare your documentation.

You should also contact Professor Reutens (d.reutens@uq.edu.au) to discuss your suitability for this scholarship prior to submitting an application.

The candidate

Applications are invited from outstanding and enthusiastic graduates with relevant backgrounds. Students may be domestic or international of high scholarly calibre and will have a First Class Honours degree, Masters degree or equivalent. Applicants must meet the requirements for admission into the UQ Graduate School PhD program (https://graduate-school.uq.edu.au/uqresearch-degrees) and should also be eligible for a UQ Graduate School Scholarship (UQGSS) (https://graduate-school.uq.edu.au/scholarships).

Remuneration

The base stipend will be at the rate of AUD $27,596 per annum (2019 rate) tax-free for three years with the possibility of two six month extensions in approved circumstances.

Enquiries: For enquiries specific to this project please email David Reutens (d.reutens@uq.edu.au).

To submit an application for this role, please send your application to CAI: hdr@cai.uq.edu.au with the subject heading: *TBI Application*

All applicants must supply the following documents:

- Cover letter
- Academic CV, including details of two referees. Please go to https://graduateschool.uq.edu.au/what-include-academic-curriculum-vitae-cv for details on what is required in an academic CV.

- International applicants: Evidence for meeting UQ's English language proficiency requirements https://graduate-school.uq.edu.au/english-language-proficiency-requirements

- Academic transcript for all post-secondary study undertaken, complete or incomplete, including the institution grading scale