

**IBRO-UCT AFRICAN ADVANCED SCHOOL ON NEUROIMMUNOLOGY AND THE GUT-BRAIN AXIS**  
**Cape Town, South Africa**



**December 2 - 17, 2018**

**Organizer: Dr Vinogran Naidoo**

**Local Coordinator: Prof. Dirk Lang**

**Aims and Scope of the School**

This IBRO Advanced Neuroscience School aims to:

- 1) Further understanding of the role of gut microbiota in cognitive function and behavior
- 2) Critically discuss how the immune system interfaces with the gut-brain axis by examining pre-clinical and clinical evidence that show microbiota-related effects on CNS function
- 3) Provide students with a deeper understanding of the translational relevance of a dysfunctional gut-brain axis in the context of neuroinflammation for the treatment of mental health disorders
- 4) Train students to use a range of experimental paradigms to study gut-brain interactions in humans and rodents. These will include molecular tools, electrophysiology, immunophenotyping, brain imaging, bacterial community profiling and behavioral tests.

**Description**

This Advanced School on Neuroimmunology will focus on neuroinflammation and the gut-brain-microbiota axis, rapidly expanding areas of research shown to be important in brain function and behavior. The overall goal of this IBRO Advanced Training School is to help African scientists accelerate their efforts towards finding effective solutions to neuroscience-related challenges that affect African society and the global community.

**Who should apply to this School?**

Applications are open to highly motivated Ph.D. & MD students, post-doctoral fellows, registrars & junior faculty who are engaged in basic neuroscience research or clinical research pertaining to neuroimmunology and are currently residing in Africa. Applicants will be selected on the basis of their CVs.

**What costs will be covered for selected applicants?**

Accommodation in a hostel and meals will be provided. Assistance with travel expenses to South Africa will be available if required and adequately motivated.

**Application deadline: July 31, 2018 (11:59 p.m. CET)**

Apply at: <http://ibro.org/ibro-uct-african-advanced-school-on-neuroimmunology-and-the-gut-brain-axis/>

For all enquiries, please contact Dr. Vinogran Naidoo at [vinogran.aidoo@uct.ac.za](mailto:vinogran.aidoo@uct.ac.za)

**Sponsored by** the International Brain Research Organization.

**Hosted by** the University of Cape Town

