



## IBRO/UNESCO School of Neuroscience:

⋄≡ All students **MUST** register on the IBRO Website and will be shortlisted to attend the school and the meeting (free of all charges)

: [http://schools.ibro.info/Pub/Pub\\_Main\\_Print.asp?LC\\_Docs\\_ID=4622](http://schools.ibro.info/Pub/Pub_Main_Print.asp?LC_Docs_ID=4622)

### PRELIMINARY PROGRAM:

## Neurobiology of Infectious Diseases: a view for Global Neuroscience

*27 November – 6 December, 2010*  
*University of La Réunion, St Denis, la Reunion*

IBRO Inter-Regional African and Western European Regional Committees with Asian Regional Committee participation

### Saturday, November 27

18:00-19:00 Opening Lecture 1 - **Philippe Gasque**, *University of la Reunion*: Welcome to La Reunion and Chikungunya virus infections– why we are here- past, present and future

19:00-20:00 Presentation of Faculty and students

20:00-21:00 Overview Lecture 2. **Monique Dubois-Dalcq**, *Institut Pasteur, Paris/NIH Bethesda, France/USA*: Nervous system organisation and pathogen invasion

21.00 - Get together party

## Sunday, November 28

### Theme 1. Fundamentals of microbe – nervous system interactions

09.00-10.20 Lecture 3. **Sara Salinas**, *CNRS, Montpellier, France*: The neural route of entry of pathogens to the nervous system – molecular sorting, axonal transport and synaptic functions

10.20-10.40 Coffee

10.40-12.00 Lecture 4. **Diane E Griffin**, *Johns Hopkins School of Public Health, USA*: Interactions between pathogens, neuron-glia cells and immune cells

12.00-13.30 Lunch and preparatory group discussions of Lectures 3 and 4

13.30-15.30 Professional Skills in Neuroscience 1: How to improve your presentation skills, for seminars and CVs. **Roberto Bruzzone**, *HKU-Pasteur research Centre, Hong Kong, China*

15.30-16.00 Coffee

16.00-17.00 Professional Skills in Neuroscience 2: How to prepare a research grant proposal – start of group work **Krister Kristensson**, *Karolinska Institutet, Stockholm, Sweden*

17.00- 18.20 Lecture 5. **Monica Di Luca**, *Dept. Pharmacological Sciences, Milan, Italy*: Fundamentals of synaptic activity and neurodegeneration

18.30-19.30 General discussion of lectures 3-5.

19.30-20.30 Dinner

Group work continued – grant proposal writing

## Monday, November 29

### Theme 2. Neurobiology of Viral Infections

09.00-10.20 Lecture 6. **Allan Randrup Thomsen**, *University of Copenhagen, Denmark*: Crosstalk between the innate and adaptive immune system during CNS viral infections (LCMV)

10.20-10.40 Coffee

10.40-12.00 Lecture 7. **Daniel Gonzalez-Dunia**, *INSERM, Toulouse, France*: Viral infections and intra-inter neuronal signaling - BDV

12.00-13.30 Lunch and preparatory group discussions of Lecture 6 and 7

13.30-14.30 Professional Skills in Neuroscience 3: Designing an experiment: What, Why and How - a Historical Perspective. **Abdul Mohammed**, *Mombasa International University, Kenya and Linneaus University, Växjö*

14.30 – 17.00 **Philippe Gasque**, *University of la Reunion* Demonstration of group work facilities at La Reunion University:  
1. Translational neuroscience of Chikungunya virus infections **Bernard Alex Gauzere**, *University of la Reunion*.  
2/ RTPCR analysis: how to design primers, extract RNA, perform RTPCR. **Jean Jacques Hoarau** *University of la Reunion*.  
3/ Surrogate markers of infection and neurodegeneration by superarray technology, flowcytomics and ELISA assays. **Pascale Krejbich Trotot**, *University of la Reunion*.  
4/ Epidemiology and vector control **Guy Lemperiere**, *IRD and CRVOI, La Réunion*

15:30-16.00 Coffee

16.:00-17.00 Group work, design of a scientific experiment

17.00-18.20 Lecture 8. **John Fazakerley**, *University of Edinburgh, UK* Neuropathogenesis of Arbovirus infections – an overview

18.30-19.30 General discussion of lectures 6-8

19.30-20.30 Dinner

Professional Skills in Neuroscience 3: Ethics in research. **Marina Bentivoglio** *University of Verona, Italy*

Group work continued, design of scientific experiment

## **Tuesday, November 30**

### **Theme 3. Parasites and the brain: in need of neuroscience research**

09.00-10.20 Lecture 9. **Georges Grau**, *University of Sydney, Australia*: Cerebral malaria. – molecular interactions between the parasites and the blood-brain barrier

10.20-10.40 Coffee

- 10.40-12.00 Lecture 10. **Hector Garcia**, *Ciencias Neurologicas, Lima, Peru*:  
Translational neuroscience - Neurocysticercosis and epilepsy in developing  
countries.
- 12.00-13.30 Lunch and preparatory group discussions of Lecture 9 and 10
- 13.30-15.30. Laboratory experiments in groups:
- 15.30-16.00 Coffee
- 16.00-17.00 Laboratory experiments in groups, continued
- 17.00-18.20 Lecture 11. **Marina Bentivoglio** *University of Verona, Italy*: Sleep and Sleeping  
sickness
- 18.30-19.30 General discussion of lectures 9-11
- 19.30-20.30 Dinner
- 20.30- Group work continued, grant proposal writing

## Wednesday, December 1

### **Theme 4. Bacteria and the nervous system: interactions through signalling pathways**

- 09.00-10.20 Lecture 12. **Dirk Schlueter**, *Magdeburg University, Germany*: Toll-like  
receptors and control of bacterial infections in the brain
- 10.20-10.40 Coffee
- 10.40-12.00 Lecture 13. **Anura Rambukkana**, *University of Edinburgh, UK*: Signaling  
mechanisms in demyelination and remyelination: learning from Leprosy bacteria
- 12.00-13.30 Lunch and preparatory group discussions of Lecture 12 and 13
- 13.30-15.30 Laboratory experiments in groups
- 15:30-16:00 Coffee
- 16.00-17.00 Report on Laboratory experiments

### **Theme 5 Retroviruses – an overview**

- 17.00-18.20 Lecture 14. **Brian Eley**, *University of Cape Town, South Africa*: ‘HIV, neuroinfection and treatments
- 18.30- 19.30 General discussion of lectures 12-14
- 19.30-20.30 Dinner
- 20.30- Grant proposal presentations

## **Thursday, December 2**

**Morning** Island sightseeing

**Late afternoon – evening – start of the Conference**

**At the conference each student will make a presentation of her/his research either as a poster or as a selected oral presentation.**

