7th TReND/ISN School on Insect Neuroscience and *Drosophila* Neurogenetics

Gombe State University, Gombe, Nigeria
13th Nov – 2nd Dec 2017

Apply now at www.TReNDinAfrica.org; **Deadline 1st Sept 2017 midnight GMT**

Aims and scope
To introduce the use of insects as powerful yet inexpensive model systems in neuroscientific research. With their comparatively simple nervous systems, tractable genetic access and low maintenance costs, *Drosophila* and other insects have rapidly consolidated their status as key model systems in scientific research.

Program and Modules of the Course
The course will be divided in three (3) weeks**.** The first week will be a general theoretical and practical introduction to the field. The second and third weeks will consist of theoretical lectures common to all students and a series of alternative practical modules. Students will choose one out of three practical modules running in parallel each week.

Week 1 (13th-18th November)
Introduction *Insects as Model Organisms in Neuroscience, Introduction to Neurogenetics, Bio-informatics, Statistics, Open Source and Scientific Ethics.*

Week 2 (20th - 25th November)
Visual circuits and behaviour (Drosophila)
Olfactory systems: Central processing (Bees and Drosophila).
Evolution and environmental control (Drosophila)
Sociobiology and neuromodulation (Ants)

Week 3 (27th November – 2nd December)
Taste (Drosophila)
Drosophila as a model for neurological human diseases
Olfactory systems: Receptors (Mosquitoes).

Who should apply?
- All African scientists: Master students, PhD students, Postdoctoral Fellows, Group Leaders
- Only applicants from African Institutions will be accepted
- Students will be selected on the basis of their academic record and written statements concerning their interest in neuroscience and how they expect to benefit from participating in the course
- There will be no attendance fee.
- There will be a number of grants for students coming from outside Gombe. These will cover round plane ticket from a major international airport (or bus tickets, depending on distance) and accommodation.

Faculty of the course

- **Tom Baden**, *School of Life Sci., U. Sussex, UK*
- **Ansa Cobham**, *Monash University, Melbourne, Australia*
- **Chris Elliot**, *Department of Biology, University of York, UK*
- **Romain Francoville**, *HHMI Janelia Farm Campus, USA*
- **Giovanni Galizia**, *Dept. Neurobiol., U. Konstanz, Germany y*
- **Yunusa M Garba**, *Dept. Neurobiol., U. Konstanz, Germany*
- **Franne Kamhi,** *Macquarie University, Australia*
- **Mahmoud Maina**, *School of Life Sci., U. Sussex, UK*
- **Ben Matthews**, *Rockefeller University, USA*
- **Alex Mauss**, *MPI Neurobiol. Munich, Germany*
- **Christen Mirth**, *Monash University, Melbourne, Australia*
- **Lucia Prieto Godino**, *Crick Institute, London, UK*
- **Ihab Riad,** *Dept. of Physics, University of Khartoum, Sudan*.
- **Steve Russel,** *University of Cambridge, UK*
- **Juan Sanchez Alcaniz**, *CIG, Lausanne, Switzerland*
- **Sadiq Yusuf,** *St Augustine University, Kampala, Uganda*

Organisers
- Lucia Prieto Godino, *Crick, London, UK*
- Tom Baden, *University of Sussex, Brighton, UK*
- Yunusa M Garba, *University of Konstanz, Germany*
- Sadiq Yusuf**,** *St Augustine University, Kampala, Uganda*

Sponsors

ISN International Society for Neurochemistry

The Company of Biologists