

# 3rd Advanced School in Genetic Manipulation of Parasitic Protozoa

## RECENT ADVANCES IN CRISPR-CAS9 GENOME EDITING

**Kolkata 11-16<sup>th</sup> March 2019**  
**Indian Institute of Chemical Biology**

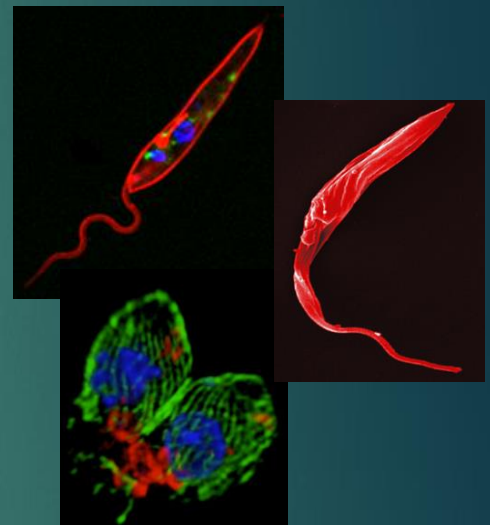


### Organisers:

Nahid Ali (Kolkata), Ana Paula Lima (Rio de Janeiro),  
Jeremy Mottram (York), Eva Gluenz (Oxford)

### Lecturers:

Richard McCulloch, Glasgow  
Carlos Robello, Montevideo  
Tony Wilkinson, York  
Debojyoti Chakraborty, Delhi  
Hemanta Majumdar, Kolkata  
Benu Brata Das, Kolkata  
Amitava Sengupta, Kolkata  
R.V. Shaji, Vellore



### Demonstrators:

Nathaniel Jones, University of York; Nicola Baker, University of York;  
James Smith, University of Oxford

This course will provide students from neglected disease endemic countries and the UK with theoretical and practical training in the latest technologies for exploitation of genomes of parasitic protozoa using genetic manipulation. The parasites covered in the theoretical component of the course will include *Leishmania* spp., *Trypanosoma cruzi* and, *T. brucei* and will describe how genetics can be used to validate drug targets and to identify novel molecular mechanisms involved in host-parasite interactions. In the practical element of the course, students will use CRISPR-cas9 to carry out genome editing of *Leishmania* to generate gene deletion mutants and mutants with *in situ* gene epitope tags.

Application forms and further information on travel bursaries for early career researchers will be available from 10 Dec 2019 at

[ntd-network.org](http://ntd-network.org)

Or contact: [ntd.network@durham.ac.uk](mailto:ntd.network@durham.ac.uk)

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