6th December 2021

Inauguration and Introduction by Director ICGEB, New Delhi

Session 1: Scientific Lectures: Host parasite interaction and vaccine development for malaria

Session 2: Scientific Lectures: Malaria Pathogenesis and Clinical Studies

Poster Session: Short presentation by selected participants

7th December 2021

Session 1: Scientific Lectures: Scientific Lectures: Drug targets and Drug Development for Malaria

Session 2: Scientific Lectures: Genomics and Proteomics studies to identify new drug targets

Practical Session: Generation of gene knock-out and knock-down parasite to study functional role of potential drug targets: Generation of transgenic P. falciparum parasites (transfection by electroporation and in vitro selection) expressing GFP fusion proteins; localization of GFP tagged proteins in these parasites by high-resolution microscopy.

8th December 2021

Session 1: Scientific Lectures: Scientific Lectures: Clinical studies in malaria and tuberculosis

Session 2: Scientific Lectures: Therapeutic antibodies as vaccine candidates

Practical Session: Proteomic and in silico genomic techniques for malaria and tuberculosis: Technical lecture for proteomic analysis; demonstration of sample preparation and analysis of by LC-MS/MS. Tuberculosis diagnosis using molecular/immunological methods.

9th December 2021

Sessions 1 and 2: Scientific Lectures: Cell Biology and Cell Cycle regulation in malaria, toxoplasma and mycobacterium

Practical Session: In silico screening of compound libraries to identify new drugs against infectious diseases. In silico analysis of genomic and proteomic data for Plasmodium and Mycobacterium