COST Action TD1303

European Network for Neglected Vectors and Vector-Borne Infections

Training school: **Phylogenetic and population genetics tools for vectors and vector-borne pathogens**

Dates: January 23-27, 2017 (5 days)

Venue: Instituto de Higiene e Medicina Tropical /Global Health and Tropical Medicine (IHMT/GHTM), Lisboa

Address: Rua da Junqueira, 100, 1349-008 Lisboa, Portugal

Training days

Sessions will be held from Monday January 23rd to Friday January 27th.
On the first day, participants will meet at the front of IHMT at 3.00 PM.
The training school will end at 12h30 PM on Friday to allow participants to fly back home.
Two coffee breaks will be offered per day. Lunch breaks will take place between 12h30 AM-1h30 PM.

Program:
AM: 9h30 to 12h30
PM: 1h30 to 6h00

Day 1 (Monday, 23 January 2017)
Chairs: *To be defined*

    AM: Arrival

    3.00h PM: Welcoming session
- Introduction
- Overview of the course

Day 2 (Tuesday, 24 January 2017)
Chairs: Patrícia Salgueiro and João Pinto

    AM: Molecular Epidemiology of Mosquito vectors:
- Malaria vectors *Anopheles sp.* (JP)

- Dengue vectors *Aedes sp. (*PS)

PM: Population genetics data analysis –Practical session
- Basic principles in population genetics (JP)
- Overview of the most common programs (PS)
- Practical exercises (JP &PS)

Day 3 (Wednesday, 25 January 2017)
Chairs: Ana Abecasis and Ricardo Parreira

AM: Molecular Epidemiology/ Phylogeny of Arboviroses:
- Molecular Epidemiology of Arboviroses (RP)
- Basic concepts in sequence alignment and phylogenetic analysis (AA)

PM: Sequence analysis -–Practical session
- Overview of the most common programs of sequence alignment and phylogenetic analysis
- Practical exercises (AA, RP, PS, AC-C)

Day 4 (Thursday, 26 January 2017)
Chairs: Carla Maia and Alejandro Cabezas-Cruz

AM:
- Molecular Epidemiology of *Leishmania sp*. (CM)
- Evolution and molecular characterization of ticks and tick-borne pathogens (AC-C)

PM: Phylogenetic analysis
- Practical exercises (AA, RP, PS, AC-C)
- Hands-on experience. Trainees can bring their own datasets to work on it with the trainers.

Day 5 (Friday, 26 January 2017)
Chairs: all trainers
AM: Evaluation and Conclusions
- Final Practical exercises and questions/doubts
- Evaluation
- Closing session

PM: Departure