

Achievements and challenges for controlling vector-borne diseases in a changing world

Fiocruz - Rio de Janeiro, Brazil (05-23 Sep 2016)

Week 1	Ecology and evolution of Infectious Diseases				
	05/09/2016 (Monday)	06/09/2016 (Tuesday)	07/09/2016 (Wednesday)	08/09/2016 (Thursday)	09/09/2016 (Friday)
09:00-10:00	"The tradition and the forefront of Parasitology in the Institute" - José R Coura (IOC-Fiocruz/RJ)	"Effects of environment on disease transmission risk" - Matt Thomas (Penn State Univ/EUA)	"Fitness cost of insecticide resistance in <i>Aedes aegypti</i> " - Ademir Martins (IOC-Fiocruz/RJ)	"Mosquito immune system and paths for a variety of pathogens" - Marcos Sorgine (IBqM-UFRJ)	"Ecological interactions regarding dengue virus and its mosquito vector" - Rafael Freitas (IOC-Fiocruz/RJ)
10:00-11:00	"Parasitology meets ecology on its own terms: Part two" - Ana M Jansen (IOC-Fiocruz/RJ)	"Measuring parasite fitness under genetic and thermal variation" - Pedro Vale (Univ of Edinburgh/Scotland)	"Resistance in natural vector populations and its consequences" - Matt Thomas (Penn State Univ/EUA)	"Ecological immunology: ecological factors shaping the evolution of immunity on insects" - Pedro Vale (Univ of Edinburgh/Scotland)	"Immune response and Plasmodium infection altering mosquito behavior and then malaria transmission" - Matt Thomas (Penn State Univ/EUA)
11:00-11:30	Interval	Interval	Interval	Interval	Interval
11:30-12:30	"Zika: the new threat" - Anna Bella Failloux (Institut Pasteur/France)	"Chikungunya emergence caused by small genetic changes in the viral genome" - Anna Bella Failloux (Institut Pasteur/France)	"Killing them softly: managing pathogen polymorphism and virulence in spatially variable environments" - Pedro Vale (Univ of Edinburgh/Scotland)	"Vector digestive system-pathogens interactions" - Fernando Genta (IOC-Fiocruz/RJ)	"How does host resistance evolve and why isn't everything resistant" - Pedro Vale (Univ of Edinburgh/Scotland)
12:30-14:00	Lunch	Lunch	Lunch	Lunch	Lunch
14:00-15:00	"Co-infection alters population dynamics of infectious disease" - Pedro Vale (Univ of Edinburgh/Scotland)	"The causes and consequences of variation in host defense: avoidance, resistance and tolerance" - Pedro Vale (Univ of Edinburgh/Scotland)	"The evolution of resistance against good and bad infections" - Pedro Vale (Univ of Edinburgh/Scotland)	"Malaria transmission in the Amazon region" - Ricardo Lourenço de Oliveira (IOC-Fiocruz/RJ)	Student session - Oral presentation
15:00-16:00	"Seeking for effective vector control tools" - Matt Thomas (Penn State Univ/EUA)	"The genomic basis of vectorial capacity" - Claudio J Struchiner (Procc-Fiocruz/RJ)	"Entomopathogenic fungi to control vector-borne diseases" - Matt Thomas (Penn State Univ/EUA)	"Gene drive and the CRISPR system" - Claudio J Struchiner (Procc-Fiocruz/RJ)	Student session - Oral presentation
16:00-16:30	Cofee-break	Cofee-break	Cofee-break	Cofee-break	Cofee-break
16:30-17:00	Daily bullet points (post-doc/young investigator)	Daily bullet points (post-doc/young investigator)	Daily bullet points (post-doc/young investigator)	Daily bullet points (post-doc/young investigator)	Daily bullet points (post-doc/young investigator)