

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

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

Week 3	Wolbachia and microbiome as control agents of vector-borne diseases				
	19/09/2016 (Monday)	20/09/2016 (Tuesday)	21/09/2016 (Wednesday)	22/09/2016 (Thursday)	23/09/2016 (Friday)
09:00-10:00	"Dengue and chikungunya epidemiology in Brazil" - Pedro Vasconcelos (IEC/PA)	"Integrated vector control practices to minimize dengue transmission in Brazil" - Giovanini Coelho (MS-SVS)	"Drug discovery and development of macrofilaricides - the A-WOL experience" - Mark Taylor (LSTM/UK)	"Effects of Wolbachia infection on mosquito biology" - Ary Hoffmann (Univ of Melbourne/AUS)	"Microbial interactions within arthropod-disease vectors" - Grant Hughes (UTMB/USA)
10:00-11:00	"Blocking arboviruses transmission" - Heverton Dutra (CPqRR-Fiocruz/MG)	"The microbiome modulates arbovirus transmission" - Grant Hughes (UTMB/USA)	"Introduction to Wolbachia biology" - Ary Hoffmann (Univ of Melbourne/AUS)	"Establishment of Wolbachia in <i>Aedes aegypti</i> populations: from field cage to real world" - Ary Hoffmann (Univ of Melbourne/AUS)	"Unravelling the mutualism of Wolbachia and filarial nematodes" - Mark Taylor (LSTM/UK)
11:00-11:30	Interval	Interval	Interval	Interval	Interval
11:30-12:30	"The Eliminate Dengue project in Brazil: plans for the next two years" - Luciano Moreira (CPqRR-Fiocruz/MG)	"Wolbachia-filarial interactions" - Mark Taylor (LSTMH/UK)	"Wolbachia for malaria control – prospects and challenges" - Grant Hughes (UTMB/USA)	"Factors underlying Wolbachia spread in North Queensland and Indonesia" - Ary Hoffmann (Univ of Melbourne/AUS)	"Biological invasions, climate change and genomics"- Ary Hoffmann (Univ of Melbourne/AUS)
12:30-14:00	Lunch	Lunch	Lunch	Lunch	Lunch
14:00-15:00	"The use of pyriproxyfen to reduce mosquito vector populations" - Sergio Luz (IMLD-Fiocruz/AM)	"The role of Wolbachia bacteria in filarial pathogenesis and immunity" - Mark Taylor (LSTM/UK)	"Spread and distribution of insecticide resistance over the last 15 years: for where we are moving to?"- Ademir Martins (IOC-Fiocruz/RJ)	"Mathematical modeling of Wolbachia invasion" - Claudio Struchiner (PROCC-Fiocruz/RJ)	Student session - Oral presentation
15:00-16:00	"Filariasis epidemiology in the Amazon region" - Sergio Luz (IMLD-Fiocruz/AM)	"Wolbachia as a target for chemotherapy" - Mark Taylor (LSTM/UK)	"How the insecticide resistance status of field populations of <i>Aedes aegypti</i> mosquitoes may jeopardize <i>Wolbachia</i> invasion" - Ary Hoffmann (Univ of Melbourne/AUS)	"Wolbachia strains for disease control: ecological and evolutionary considerations" - Ary Hoffmann (Univ of Melbourne/AUS)	Student session - Oral presentation
16:00-16:30	Coffee-break	Coffee-break	Coffee-break	Coffee-break	Coffee-break
16:30-17:00	Daily bullet points (Heverton Dutra)	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)