## PROGRAM

## TUESDAY, 28 JUNE 2016

	,	
16:00-18:00	Registration	
18:00-19:00	Welcome reception and Australian wild life encounter	
19:00-20:30	Dinner and introduction to O'Reilly's	
	WEDNESDAY, 29 JUNE 2016	
8:50-9:10	Official welcome and opening remarks	
Session 1: Evolution and Ecology I Chair: Markus Riegler		
9:10-9:30	Turelli, Michael: Genomic variation of wRi Wolbachia and	
9:30-9:50	phenotypic effects in <i>Drosophila simulans</i> <b>Kriesner, Peter:</b> Persistence of a <i>Wolbachia</i> infection frequency cline in <i>Drosophila melanogaster</i> and the possible role of reproductive dormancy	
9:50-10:10	Ginsberg, Paul: Wolbachia in the montium species subgroup of	
10:10-10:30	Drosophila: prevalence, phylogenies, and associated phenotypes Cooper, Brandon: Wolbachia in the Drosophila yakuba complex: frequency variation in space and time with cytoplasmic incompatibility modulated by intraspecific Wolbachia-host covariation	
10:30-11:00	Break	
Session 2: Evolution and Ecology II Chair: Peter Kriesner		
11:00-11:20	Cattel, Julien: Identification of a candidate <i>Wolbachia</i> strain for developing the Incompatible Insect Technique to control <i>Drosophila</i> suzukii populations	
11:20-11:40	Hong, Xiao-Yue: Effects of host interaction with Wolbachia on CI in the two-spotted spider mite Tetranychus urticae	
11:40—12:00	Nguyen, Duong: Male development, post-embryonic and embryonic mortality – diverse outcomes of <i>Cardinium</i> - and <i>Wolbachia</i> -induced cytoplasmic incompatibility in thrips	
12:00-12:20	Gebiola, Marco: Cardinium contribute to speciation in Encarsia wasps: a novel mechanism based on cytoplasmic incompatibility and Darwin's corollary	
12:20-14:00	Lunch	

## Session 3: Evolution and Ecology III Chair: **Anne Duplouy**

14:00-14:20	<b>Zug, Roman:</b> Evolution of reproductive parasites with direct fitness benefits	
14:20-14:40	<b>Lefoulon, Emilie:</b> Breakdown of coevolution between symbiotic bacteria <i>Wolbachia</i> and their filarial hosts	
14:40- 15:00	Rota-Stabelli, Omar: Towards a molecular clock of Wolbachia	
15:00-15:30	Coffee break	
Session 4: Evolution and Ecology IV Chair: <b>Molly Hunter</b>		
15:30-15:50	Kageyama, Daisuke: A new phenotype of Wolbachia: manipulation	
15:50-16:10	of female meiosis in <i>Eurema</i> butterflies with ZO karyotype <b>Truitt, Amy:</b> <i>Eurema</i> butterflies are quite hospitable: characterizing	
16:10-16:30	their parasitoids and associated <i>Wolbachia</i> strains <b>Bouchon, Didier:</b> The microbiota as a bacterial passport? Community structure and major players in the terrestrial isopod microbiome	
17:30-19:30	Poster session I	
19:30-21:00	Dinner and cash bar	
THURSDAY, 30 JUNE 2016		
9:00-9:10	Announcements	
Session 5: Endosymbiont Genomics I Chair: Jennifer Morrow		
9:10-9:30	<b>Klasson, Lisa:</b> Using comparative genomics to search for <i>mod</i> and <i>resc</i>	
9:30-9:50	<b>Kampfraath, Dré:</b> The genetic basis of <i>Wolbachia</i> induced parthenogenesis and host dependency	
9:50-10:10	<b>Lindsey, Amelia:</b> Extensive protein-coding sequence truncations in the parthenogenesis-inducing <i>Wolbachia</i> strain infecting	
10:10-10:30	Trichogramma pretiosum <b>Hunter, Molly:</b> Comparative genomics of the reproductive manipulator symbiont Cardinium	
10:30-11:00	Break	
Session 6: Endosymbiont Genomics II Chair: <b>Jeremy Brownlie</b>		

11:00-11:20 **Morel, Olivier:** Evolutionary history of the *Coxiella* genus

11:20-11:40	<b>Brown, Amanda:</b> Evolutionary genomics of an ancestral <i>Wolbachia</i> from plant-parasitic nematodes
11:40-12:00	Bordenstein, Sarah: Unraveling the secrets of phage WO
12:00-13:30	Lunch
14:00-19:00	Free afternoon
19:00-20:30	Dinner and cash bar
	FRIDAY, 1 JULY 2016
9:00-9:10	Announcements
Ses	SION 7: MOLECULAR AND CELLULAR BIOLOGY OF SYMBIOSIS I Chair: Wolfgang Miller
9:10-9:30	<b>LePage, Daniel:</b> Discovery of <i>Wolbachia</i> genes that induce cytoplasmic incompatibility
9:30-9:50	<b>Beckmann, John:</b> Molecular mechanism of <i>Wolbachia</i> induced cytoplasmic incompatibility
9:50-10:10	Serbus, Laura: Proteomic analysis of Wolbachia impact on the Drosophila ovary
10:10-10:30	<b>Pietri, Jose:</b> Horizontal cell-to-cell transfer of <i>Wolbachia</i> is dependent on the host endocytic pathway
10:30-11:00	Break
Ses	SION 8: MOLECULAR AND CELLULAR BIOLOGY OF SYMBIOSIS II Chair: <b>Laura Serbus</b>
11:00-11:20 11:20-11:40	Miller, Wolfgang: Linking <i>Wolbachia</i> -tropism to phenotype White, Pamela: A genome-wide cell based RNAi screen reveals host ubiquination and proteolysis pathways regulate <i>Wolbachia</i> intracellular titer
11:40-12:00	<b>Brownlie, Jeremy:</b> The face of a killer: how temperature, bacterial density and genome instability affect pathogenicity of a virulent <i>Wolbachia</i> strain
12:00-12:20	Wang, Yu-Feng: Wolbachia may improve learning and memory capacities of <i>Drosophila</i> by altering host gene expression through miRNA
12:20-14:00	Lunch
;	Session 9: Wolbachia and Pathogen Interactions I Chair: Ewa Chrostek

14:00-14:20 **O'Neill, Scott:** The use of *Wolbachia* to control the transmission of *Aedes aegypti* associated viruses: The Eliminate Dengue Program.

14:20-14:40 14:40-15:00	Moreira, Luciano: Wolbachia as a Zika control strategy in Brazil Caragata, Eric: Dietary carbohydrate manipulation leads to differential pathogen interference in Wolbachia-infected Aedes aegypti	
15:00-15:30	Break	
	Session 10: Wolbachia and Pathogen Interactions II Chair: Luciano Moreira	
15:30-15:50	Saucereau, Yoann: Proteomic analysis of multipartite interactions in Aedes albopictus	
15:50-16:10	Gonçalves, Daniela: Wolbachia introduction in Lutzomyia longipalpis (Diptera: Psychodidae) and its interaction with Leishmania	
16:10-16:30	Herren, Jeremy: Interactions between endosymbiotic Spiroplasma and anopheline mosquitos	
17:30-19:30	Poster session II	
19:30-21:00	Dinner and cash bar	
	SATURDAY, 2 JULY 2016	
9:00-9:10	Announcements	
	Session 11: Symbiont and Pathogen Interactions Chair: Karyn Johnson	
9:10-9:30	<b>Kaur, Rupinder:</b> Evolutionary considerations for exploring the functional Drosophila- <i>Wolbachia</i> -Viruses trinity	
9:30-9:50	Chrostek, Ewa: Temperature dependence of Wolbachia-conferred antiviral protection in Drosophila	
9:50-10:10	Fukatsu, Takeama: Novel insect-microbe defensive symbioses	
10:10-10:30	Zchori-Fein, Einat: Insect symbionts as bio-control agents against phloem-restricted plant pathogens	
10:30-11:00	Break	
Session 12: Wolbachia in Filarial Nematodes Chair: Bill Kozek		
11:00-11:20	<b>Makepeace, Ben:</b> Global transcriptome analysis of <i>Wolbachia</i> strain wOo under antibiotic pressure <i>in vivo</i>	
11:20-11:40	Le, Thuy: SAR optimisation of potent anti-Wolbachia compounds	
11:40-12:00	<b>Taylor, Mark:</b> 'You'll come A·WOLtzing Macrofilaricides with us' – new macrofilaricide discovery and development through targeting <i>Wolbachia</i>	
12:00-12:20	TBA	
12:20-14:00	Lunch	

## SESSION 13: OTHER MICROBIAL SYMBIOSES OF INSECTS Chair: **Heather Flores**

14:00-14:20 14:20-14:40	<b>Drew, Georgia:</b> 'Friend or foe': establishing the role of a symbiont in honey bee health  White, Jen: Facultative endosymbionts mediate dietary breadth in a polyphagous herbivore
14:40-15:30	Break
15:30-17:00	Discussions: species naming/regulatory aspects of <i>Wolbachia</i> and other endosymbiont applications around the globe
17:00-18:00	Closing address/new business and next conference
19:00-21:00	Conference dinner

**SUNDAY, 3 JULY 2016** 

Departure