

Experimental evolution: bring theory and practice together

Vetmeduni Vienna, Dec. 2-6, 2019

updated: Dec 2, 2019

		Mon., Dec.02	Tue., Dec.03	Wed., Dec.04	Thu., Dec.05	Fri., Dec.06
		Panorama Saal	Lecture Hall A	Lecture Hall A	Lecture Hall A	Lecture Hall B
Lectures	09:00-10:30	Henrique Teotónio: General principles about evolution experiments	Susan Bailey: Using evolve and re-sequence experiments to identify drivers of parallel evolution - exploring the effects of spatial structure and clonal interference	Molly Burke: Experimental evolution in outcrossing <i>Saccharomyces cerevisiae</i>	Susan Bailey: Searching for synonymous mutations with fitness effects - combining evidence from experiments and a comparative genomics approach	Henrique Teotónio: Adaptation to variable (changing and fluctuating) environments
	10:30-11:00	coffee break	coffee break	coffee break	coffee break	coffee break
	11:00-12:30	Robert Kofler: Experimental design of experimental evolution	Molly Burke: Experimental evolution of life history traits in <i>Drosophila melanogaster</i>	Anthony Long: Sexual and Asexual evolution of a 18-way synthetic population of yeast	Anthony Long: Doing genetics in a closed <i>Peromyscus leucopus</i> colony to slow the spread of Lyme disease	Neda Barghi: Polygenic adaptation in <i>Drosophila simulans</i>
	12:30-13:30	lunch	lunch	lunch	lunch	lunch
		Computer Room, Pop. Gen. Institute 4th floor				
Practicals	13:30-15:30	<i>Simulations of E&R under neutrality and selection (Christos Vlachos)</i>	<i>Testing for selection with and without time series (Claire Burny and Marta Pelizzola)</i>	<i>Testing for selection with and without time series (Claire Burny and Marta Pelizzola)</i>	<i>Haplotype reconstruction (Anna Maria Langmüller and Kathrin Otte)</i>	<i>Detecting selection from transcriptomics data (Wei-Yun Lai)</i>
	15:30-16:00	break	break	break	break	break
	16:00-18:00	<i>Simulations of E&R under neutrality and selection (Christos Vlachos)</i>	<i>Testing for selection with and without time series (Claire Burny and Marta Pelizzola)</i>	<i>Haplotype reconstruction (Anna Maria Langmüller and Kathrin Otte)</i>	<i>TE analysis (Florian Schwarz)</i>	<i>Detecting selection from transcriptomics data (Wei-Yun Lai)</i>
Tutors for the practical sessions:						
Day1		Divya Selvaraju, Krzysztof Stankiewicz, Benjamin Wöfl				
Day2		Marek Lirakis, Aglaja Szukala				
Day3		Elif Bozjak, Thapasaya Vijayan, Benjamin Wöfl				
Day4		Elif Bozjak, Lauri Tórmá, Thapasaya Vijayan, Christos Vlachos, Filip Wierzbicki, Benjamin Wöfl				
Day5		Sheng-Kai Hsu, Aglaja Szukala, Benjamin Wöfl				