

**Mind the Gap 4, Vienna**  
**1st and 2nd of November, 2013**

**Friday 9.00-12.15: Viral and Predictive Evolution**

- 9.00-9.05      Welcome
- 9.05-9.45      **Philip Gerrish**, University of New Mexico  
*Real time forecasting of near-future evolution: theory and experiments.*
- 9.50-10.30     **Michael Lässig**, University of Cologne  
*A predictive fitness model for influenza.*
- 10.30-11.00    Coffee-Break (30 min)
- 11.00-11.40    **Sivan Leviyang**, Georgetown University  
*The Population Genetics of Intra-host HIV Selective Sweeps.*
- 11.45-12.15    **Sandra Kliem**, University of Duisburg-Essen  
*Modeling evolving genealogies.*
- 12.15-14.00    Lunch Break

**Friday 14.00-17.10: Signatures of Complex Selection**

- 14.00-14.40    **Simon Boitard**, INRA, Toulouse  
*Using haplotype based differentiation tests for detecting soft and incomplete sweeps.*
- 14.45-15.25    **Luis-Miguel Chevin**, Centre for Funct. and Evol. Ecol., CNRS,  
Montpellier  
*Selective sweeps under polygenic adaptation.*
- 15.25-15.55    Coffee-Break (30 min)
- 15.55-16.35    **Toni Gossmann**, University of Sheffield  
*Selective forces affecting the rate of protein evolution.*
- 16.40-17.10    **Martina Baar**, University of Bonn  
*Stochastic individual-based models of adaptive dynamics.*
- 17.10-19.00    Poster Session

### **Saturday 9.00-12.45: Experimental Evolution**

- 9.00-9.40      **Michael Desai**, Harvard University  
*Genetic variation and the fates of individual mutations in 40 adapting yeast populations.*
- 9.45-10.25      **Joachim Krug**, University of Cologne  
*Epistatic constraints and evolutionary predictability on empirical fitness landscapes.*
- 10.25-10.55      Coffee-Break (30 min)
- 10.55-11.35      **Henrique Teotonio**, Gulbenkian Institute of Science  
*The genetic basis of adaptation to novel environments in experimental *C. elegans*.*
- 11.40-12.10      **Adrian Gonzalez Casanova**, TU Berlin  
*A weak mutation - strong selection model for experimental evolution.*
- 12.15-12.45      **Susanne Franssen**, Vetmeduni Vienna  
*High resolution linkage analysis during experimental evolution experiments.*
- 12.45-14.30      Lunch Break

### **Saturday 14.30-17.50: Introgression, Hybrid Zones and Clines**

- 14.30-15.10      **Nicolas Bierne**, University II of Montpellier  
*Interpreting the geography and inferring the history of introgression when the environment is new or patchy and hybrid zones are semi-permeable.*
- 15.15-15.55      **Jarle Tufto**, Norwegian University of Science and Technology  
*The joint effects of artificial and natural selection during domestication on fitness in the wild: A multivariate generic approximate Gaussian model.*
- 16.00-16.30      Coffee-Break (30 min)
- 16.30-17.00      **Stephan Peischl**, University of Bern  
*On the accumulation of deleterious mutations during range expansions.*
- 17.10-17.50      Closing Lecture: **Anton Wakolbinger**, Goethe-Universität Frankfurt  
*Lines of descent under selection.*
- 19.00              Conference Dinner