

**Program - Adaptive landscape genetics: current insights and future directions**  
University of Neuchâtel, UniMail, Aula ALG (2<sup>nd</sup> floor) - February 7-8, 2012

**Tuesday February 7, 2012**

8.30 Registration

9.15: Welcome: Christian Parisod (Uni. Neuchatel)

**Adaptation in natural populations**

9.20: Aurélie Bonin (Uni. Grenoble, France)

*Adaptive genetic variation on the landscape: methods and cases*

10.10: Sylvain Ursenbacher (Uni. Basel, Switzerland)

*Color polymorphism and population genetic in the asp viper:  
is local selection stronger than gene-flow?*

**10.30: Break**

11.00: Christian Lexer (Uni. Fribourg, Switzerland)

*Evolutionary genomics of adaptation and speciation in a model forest tree*

11.50: David Neale (UC Davis, USA)

*Landscape Genomics of North American Conifers*

12.10: Juan Galarza (Uni. Jyväskylä, Finland)

*Detecting local adaptations in aposematic species: A phenotypic-genotypic approach.*

**12.30: Lunch**

**Acquisition of genomic data in non-model species**

14.00: Malika Ainouche (Uni. Rennes, France)

*Development of genomic resources in non-model species: Case study from polyploid  
Spartina species invading salt marshes*

14.50: Angela McGaughran (Max Planck Institute, Tübingen, Deutschland)

*Evolution across the landscape: interpreting patterns of adaptive genetic differentiation  
in an island nematode*

15.10: Catherine Cullingham (Uni. Alberta, Canada)

*Adaptive genomics of lodgepole and jack pine populations*

**15.30: Break**

16.00: Christian Rellstab (WSL Birmensdorf, Switzerland)

*Are adaptive loci transferable across genomes of related species? – Outlier and association*

16.20: Martin C. Fischer (ETH Zürich, Switzerland)

*Population re-sequencing reveals the signature of habitat-mediated selection  
in Arabidopsis halleri*

16.40: Pierre Taberlet (CNRS Grenoble, France)

*From AFLP to RAD tag and whole genome sequencing*

**18.00 Conference dinner (Petit Hotel de Chaumont)**

**Wednesday February 8, 2012**

**Associating environmental and genetic data**

- 9.00: Christophe Randin (Uni. Basel, Switzerland)  
*Data for landscape genetic analysis: what should I get, how can I get them (and sometimes how can I get there)?*
- 9.50: Santiago C. Gonzalez-Martinez (INIA Centre of Forest Research, Spain)  
*Testing for geographical genetic clines and environmental associations in Mediterranean pines*
- 10.10: Anahí Espíndola (Uni. Lausanne, Switzerland)  
*Ecological niche hindcasting as a tool for predicting and understanding genetic structure*

**10.30: Break**

- 11.00: Felix Gugerli (WSL Birmensdorf, Switzerland)  
*The needle in the haystack: ecologically relevant alleles in non-model plants from the Alps*
- 11.50 Antoine Paccard (Uni. Neuchâtel, Switzerland)  
*Adaptation to microhabitat in *Arabidopsis lyrata**
- 12.10: Frédéric Guillaume (ETH Zürich, Switzerland)  
*Genetic limits of adaptation to climate change: an Eco-Evolutionary perspective*

**12.30: Lunch and poster session**

**Towards consistent assessment of adaptive genetic variation in populations**

- 15.00: Stéphane Joost (EPF Lausanne, Switzerland)  
*Spatial analysis of whole genome data: statistical strategies and computational requirements for the identification of genomic regions associated with adaptation and disease resistance*
- 15:50 Laurent Excoffier (Uni. Bern, Switzerland)  
*Non-adaptative genetic processes during range expansions*
- 16.40: Farewell: Christian Parisod (Uni. Neuchatel) and Rolf Holderegger (WSL Birmensdorf)