



biology08 - University of Lausanne

Scientific program

Wednesday 6th February 2008

16:00

Registration

17:00

Conférence grand public, in French (Université de Lausanne, Anthropole, salle 1031)

17:00 Invited speaker - **Pierre-Henri Gouyon** (Muséum d'Histoire Naturelle, Paris)

Biodiversité, recherche et éthique

Thursday 7th February 2008

08:15	Registration
09:15	Welcome address (University of Lausanne, Anthropole building, room 1031)
09:30 Invited speaker - Rick Grosberg (University of California at Davis, USA)	Ecological and genetic constraints on the resolution of multiway family conflicts in a marine snail
10:15 Stephanie Michler (University of Groningen)	Sex allocation in relation to offspring density and sex ratio: an experiment in the great tit
10:30 Bettina Almasi (Swiss Ornithological Station)	Parental investment and its sensitivity to corticosterone is linked to melanin-based coloration in barn owls
10:45	Break - Poster session (main hall)
11:15 Shirley Raveh (University of Neuchâtel)	Mating behaviour and parasite – host interactions in male Columbian ground squirrels (<i>Spermophilus columbianus</i>)
11:30 Linda Bischoff (University of Bern)	Exposure to ectoparasites early in life affects song rate and song overlapping of male great tits (<i>Parus major</i>)
11:45 Dany Arsic (University of Neuchâtel)	Nutritional signaling and the control of appetite in the African malaria mosquito <i>Anopheles gambiae</i>
12:00 Lena Senn (University of Zürich)	Pasture infectivity: the potential for nematode transmission between sheep and Alpine ibex
12:15 Hans Ulrich Schüpbach (University of Basel).	Parasitic mites influence fitness components of their host, the land snail <i>Arianta arbustorum</i>
12:30	Lunch break - Annual Meeting of the Swiss Systematics Society (room 4068)
13:45 Invited speaker - Kentaro Shimizu (University of Zürich)	Darwin's reproductive assurance model revisited - evolutionary genomics of Arabidopsis relatives
14:30 Nina Internicola (University of Lausanne)	Should food-deceptive species flower before or after rewarding species? An experimental test of pollinator visitation behaviour under contrasting phenologies
14:45 Tanja Scheublin (University of Lausanne)	Microbial colonization of arbuscular mycorrhizal fungal hyphae
15:00 Yvonne Willi (ETH, Zürich)	Contributions of inbreeding depression, genetic variation, and demographic stochasticity to evolvability in small populations
15:15	Break - Poster session (main hall)
15:45 Pascal-Antoine Christin (University of Lausanne)	Oligocene CO2 decline promoted C4 photosynthesis in grasses
16:00 Florian Altermatt (University of Basel)	Climate change affects colonisation dynamics in a metacommunity of three Daphnia species
16:15 Christian Schöb (University of Bern)	Species distribution and aggregation/segregation patterns along a snowmelt gradient in snowbeds
16:30 Rie Shimizu-Inatsugi (University of Zürich)	Recurrent polyploidization and adaptive radiation along water-usage gradient in the genus Cardamine, Brassicaceae
16:45 Christelle Péré (CABI Europe-Switzerland)	Potential indirect impact of the invasion of <i>Cameraria ohridella</i> on native leaf-miners.
17:00 Deborah Renz (University of Basel)	Why abandon neighbourhood symmetries in plants: experimental evaluation of intra- and interspecific interaction distances
17:15 Guilhem Mansion (University of Zürich)	Origin of insular, "mediterranean" endemics in the Boraginaceae: integrative evidence from molecular dating and ancestral area reconstruction
18:15	Darwin's party - Casino de Montbenon - Aperitif
19:00 Invited speaker - Frans de Waal (Emory University, Atlanta, USA)	A social brain: what primates know about and learn from each other
	Darwin's dinner - Live music performed by Cocinando

Friday 8th February 2008

08:30

Registration

09:00 Invited speaker - Patrik Nosil (Simon Fraser University, Canada)

Two ecological explanations for (failed) speciation

09:45 Erica van de Waal (University of Neuchâtel)

Social learning and culture among vervet monkeys

10:00 Yannick Wurm (University of Lausanne)

Genomic response to social restructuring of fire ant colonies

10:15 Nicole Weyeneth (Natural History Museum of Geneva)

Biogeographic origins of *Miniopterus* bats from the Comoro archipelago

10:30

Break - Poster session (main hall)

11:00 Gerald Kerth (University of Lausanne)

Conflicting information affect group decisions in a social mammal

11:15 Seraina Klopstein (Natural History Museum of Bern)

The power and limitations of phylogenetic informativeness profiles and the phylogeny of *Diplazontinae* (*Hymenoptera*, *Ichneumonidae*)

11:30 Sofia Caetano (Conservatoire et Jardin Botaniques de Genève)

Bayesian inferences on the colonization of the Galapagos by the tree *Geoffroea Spinosa* (Leguminosae): natural dispersal or human introduction ?

11:45 Martin Fischer (University of Bern)

Out of Asia: repeated continental colonization events in *Microtus* rodents evidenced by multiple markers and a genomic approach

12:00 Sabine Fink (University of Bern)

Mosaic-like selection in the *avpr1a* gene region

12:15

Lunch break - Annual Meeting of the Swiss Zoological Society (room 4068)

13:45 Invited speaker - James Bever (Indiana University, Blomington, USA)

Evolutionary maintenance of the arbuscula mycorrhizal mutualism

14:30 Caroline Angelard (University of Lausanne)

Effect of genetic drift in Arbuscular Mycorrhizal Fungi (AMF) on plant growth and fungal colonization

14:45 Anne Kempel (University of Bern)

Belowground mutualisms and plant-herbivore interactions - the role of rhizobia

15:00 Ivan Hiltbold (University of Neuchâtel)

Enhancing the attractiveness of maize roots for entomopathogenic nematodes

15:15

Break - Poster session (main hall)

15:45 Ditte Guldager Christiansen (University of Zürich)

From clonal to sexual hybrids: genetic recombination via triploids in all-hybrid populations of *Rana esculenta* water frogs

16:00 Andreas Sutter (University of Bern)

Non-coincident sex-specific clines in common voles - incipient speciation in Switzerland?

16:15 Irene Keller (Eawag)

Ribosomal DNA provides evidence of population history and gene flow across a grasshopper hybrid zone

16:30 Sylvain Antoniazza (University of Lausanne)

Clinal color variation in European Barn Owls: a role for local adaptation?

16:45 Tamara Hofer (University of Bern)

Spatial distribution of allele frequency differences among human populations

17:00 Sébastien Nusslé (University of Lausanne)

Fishery-induced selection on alpine whitefish: quantifying genetic and environmental effects on growth rate

17:15

Sponsor presentation and prize ceremony

17:30

End of the conference