

## Thursday 16<sup>th</sup> February 2006 (Session chairs: Juan Montoya and Philippe Clerc / Mathieu Perret and Pierre-André Loizeau)

08:15 - **Registration**

09:00 - **Introduction**

09:15 - **Invited speaker - Selosse, M.-A.** (U Montpellier II, France). In search of monophyletic taxa in the fungal world : Eumycetes (= Fungi) & convergent lineages.

10:00 - **Croll, D.**, M. Ehinger, M. Giovannetti, C. Sbrana, A. M. Koch & I. R. Sanders (U Lausanne). High promiscuity in hyphal networks of arbuscular mycorrhizal fungi.

10:15 - **Härri, S. A.**, & C. B. Müller (U Zürich). Grass endophytes mediate coexistence among aphid species.

10:30 - **Break, Poster session**

11:00 - **Salamin, N.** (U Lausanne). Estimating speciation and extinction rates from phylogenetic trees.

11:15 - **Sinniger, F.** & J. Pawlowski (U Geneva). Mitochondrial genomes and early metazoan phylogeny.

11:30 - **Covain, R.**, S. Dray & S. Fisch-Muller (Natural History Museum, Geneva). Morphological and phylogenetical study of the subfamily Loricariinae (Siluriformes, Loricariidae).

11:45 - **Hollanda Carvalho, P.**, J. Montoya-Burgos & C. Weber (Natural History Museum, Geneva / U Geneva). Molecular and morphological results on the recent “*Hypostomus gymnorhynchus* species complex” (Pisces: Siluriformes: Loricariidae) from Guianas.

12:00 - **Fink, S.**, L. Excoffier & G. Heckel (U Bern). Rapid speciation and selection in the rodent genus *Microtus*.

12:15 - **Bernasconi, M. V.**, M. Pollet, M. Varini-Ooijen & P. I. Ward (U Zürich). Molecular and morphological phylogeny of European *Dolichopus* and *Gymnopternus* (Diptera, Dolichopodidae) in relation to their ecology and distribution.

12:30 - **Lunch break**

13:45 - **Invited speaker - Endress, P. K.** - (U Zürich). Flowering plant evolution - new insights, new questions.

14:30 - **Hansen, D. M.**, K. Beer & C. B. Müller (U Zürich). Coloured nectar – an honest signal for pollinators ?

14:45 - **Song, Y.**, Y.-M. Yuan & P. Küpfer (U Neuchâtel). Molecular phylogeny of Balsaminaceae based on ITS, trnL-trnF and atpB-rbcL sequence data.

15:00 - **Juillet, N.**, Smithson, M. Macnair & L. Gigord (U Lausanne). Is there a relationship between colour polymorphism and reproductive success in rewardless orchids?

15:15 - **Break, poster session**

15:45 - **Kissling, J.**, G. Mansion & P. Küpfer (U Neuchâtel). Generic delimitation and phylogenetic relationships within the tribe Exaceae (Gentianaceae), with special reference to *Sebaea* s.l.

16:00 - **Hoehn, S.**, G. Vergnerie & M. Fischer (U Zürich). Consequences of longer-term inbreeding for the fitness of *Lychnis flos-cuculi* plants from a fragmented landscape.

16:15 - **Wegmann, D.**, M. Currat & L. Excoffier (U Bern). Range expansions in heterogeneous environments.

16:30 - **Kuss, P.**, A. R. Pluess, H.-H. Ægisdottir & J. Stöcklin (U Basel). Genetic differentiation in relation to life-history traits in three naturally fragmented alpine plants.

16:45 - **Cozzi, G.**, C. Müller & J. Krauss (U Zürich). Landscape scales affect fritillary butterfly distribution on fragmented fens.

17:00 - **Gusset M.**, R. Slotow & M. J. Somers (U KwaZulu-Natal, South Africa). Allee effects, co-operative breeding and endangered species recovery: case of the African wild dog (*Lycaon pictus*).

17:15 - Departure for **Darwin's party (Restaurant Halles de L'île)**

18:15 - **Invited speaker, Darwin's party - Milinkovitch, M.** (U libre de Bruxelles).

19:00 - **Aperitif offered by the City of Geneva (Restaurant Halles de L'île)**

19:30 - **Darwin's dinner. Live music performed by BAZAR**

**Friday 17th February 2006** (Session chairs: Yamama Naciri and Manuel Ruedi / Alice Cibois and Michelle Price)

08:15 - **Registration**

08:35 - **Invited speaker – Petit, R. J.** (INRA, Bordeaux, France). Are phylogeographic surveys relevant in conservation biology ?

09:20 - Announcement of the **Swiss Systematics Society**

09:30 - **Parisod, C.** (U Lausanne). Testing a century of alpine biogeography with molecular phylogeography.

09:45 - **Salamone, L.** & J. I. Montoya-Burgos (U Geneva). Historical biogeography of Xenopodinae.

10:00 - **Schmitz, P.** & B. Landry (Natural History Museum, Geneva). The molecular genetics of an insular radiation: the genus *Galagete* (Lepidoptera : Autostichidae) of the Galapagos Islands.

10:15 - **Break, Poster session**

10:45 - **Bittner, D.**, L. Excoffier & C. R. Largiadèr (U Bern). Gonadal abnormalities in whitefish from Lake Thun, Switzerland, as a consequence of recent hybridization between different forms?

11:00 - **Ujje, Y.**, J. H. Lipps & J. Pawlowski (U Geneva). Cryptic speciation and biodistribution patterns in planktonic foraminiferal fauna inferred from the nuclear SSU rDNA sequences.

11:15 - **Sandrock, C.**, N. Brede, B. Keller, P. Spaak, B. Streit & K. Schwenk (U Zürich). The evolutionary history of interspecific hybridization in *Daphnia*.

11:30 - **Schwander, T.**, S. Helms Cahan & L. Keller (U Lausanne). Factors involved in the reproductive isolation between harvester ants with genetic and environmental caste determination.

11:45 - **General meeting of the Zoological Society, poster session**

12:45 - **Lunch break**

13:45 - **Invited speaker - Futuyama, D. J.** - (State U of New York, Stony Brook, U.S.A.). Niche Shifts, Speciation, and the Evolution of Diversity.

14:30 - **Bergmüller, R.** & M. Taborsky (U Neuchâtel). Behavioural syndromes and strategic niche specialisation in a cooperative breeder.

14:45 - **Dufour, A.**, Z. Gadallah, H. Wagner, A. Guisan & A. Buttler (WSL, U Franche-Comté, U Lausanne). Plant species richness and environmental complexity.

15:00 - **Evanno, G.**, E. Castella & J. Goudet (U Lausanne). Temporal covariation between genetic and species diversity in a community of freshwater gastropods.

15:15 - **Break, poster session**

15:45 - **Broennimann O.**, A. Guisan, R. Engler, N. G. Yoccoz & M. Vust (U Lausanne). Using niche-based models to improve the sampling of rare species

16:00 - **Weyeneth, N.**, G. Soland & G. Heckel (U Bern). Honeybee drones persist in foreign colonies after mating flights

16:15 - **Gallizzi, K.** & H. Richner (U Bern). Maternally transmitted host defence in the Great Tit reduces survival of a common ectoparasite.

16:30 - **Safi, K.** & G. Kerth (U Zürich). Implications of sex-specific habitat use and social sexual segregation for the conservation of the parti-coloured bat.

16:45 - **Amstutz U.**, T. Giger, A. Champigneulle, P. Day & C. Largiadèr (U Bern). Early discrimination between sedentary and migratory brown trout based on expression levels of 'old' and 'new' smoltification candidate genes.

17:00 - **Burgener, N.**, M. East, H. Hofer & M. Dehnhard (IZW, Berlin). Do scent marks in female spotted hyenas (*Crocuta crocuta*) code for clan membership ?

17:15 - **Salathé, M.**, R. Salathé, S. Bonhoeffer & P. Schmid-Hempel (ETH Zürich). Sex in space - a mutational perspective

17:30 - **Prize presentations**

17:45 - **End of the conference**

## Poster presentations

- 01 **Abbes I.** – U Tunisia : Biodiversity of terrestrial Gastropoda in Tunisia (North Africa)
- 02 **Albrecht M., P. Duelli, C. Müller, D. Kleijn & B. Schmid** – WSL, Birmensdorf : Agri-environment schemes and ecosystem services - The Swiss agri-environment scheme affects pollinator communities pollination success of plants in nearby intensively managed farmland
- 03 **Appoloni S., R. Bunn, C. Zabinski & D. Redecker** – U Basel : Symbioses in extreme environments: Molecular community analysis of arbuscular
- 04 **Bernasconi C., D. Cherix & P. Pamilo** - U Lausanne - Museum of Zoology, Lausanne : Phylogeography of wood ants (*Formica rufa* group) in Europe
- 05 **Berthouly A., F. Helfenstein & H. Richner** – U Bern : How do maternal carotenoids affect offspring condition and immunocompetence in the Great Tit?
- 06 **Bussiere L., A. Pemberton, M. Demont & P. Ward** – U Zürich : Assessing insemination success using competitive PCR
- 07 **Caetano S., D. Prado, R. Spichiger & Y. Naciri** – Conservatory and Botanical garden, Geneva : Chloroplast and microsatellite markers in *Astronium urundeuva* and close species: toward the definition of a species complex ?
- 08 **Camani M., A. Weidt, G. Kerth & B. König** – U Zürich : Genetic evidence of multiple paternity in a wild house mouse population
- 09 **Castella G., P. Christe & M. Chapuisat** – U Lausanne : Collective medication in wood ants
- 10 **Christin P.-A., N. Salamin & G. Besnard** – U Lausanne : Evolution of genes encoding C4 phosphoenolpyruvate carboxylase in Poaceae: a phylogenetic study showing multiple appearances and convergence
- 11 **Dechmann D. K. N., E. K. V. Kalko & G. Kerth** – U Zürich : Roosts in termite nests – an example of extended phenotype in bats?
- 12 **Demont M., Trenton W. J. Garner & W. U. Blanckenhorn** – U Zürich : Evidence for natural selection in the face of gene flow as the cause of population differentiation in quantitative traits
- 13 **Dépraz A. & J. Hausser** – U Lausanne : Postglacial recolonisation of the Alps at a snail's pace, *Trochulus villosus* (Hygromiidae, Gastropoda)
- 14 **Dessimoz F., O. Broennimann & A. Guisan** – U Lausanne : Invasive potential of the Giant Hogweed (*Heracleum mantegazzianum*) in the Swiss Alps: implication for management
- 15 **Devevey G., M. Chapuisat, F. Biollaz, C. Yvon & P. Christe** – U Lausanne : The effect of fleas on immune response and physiology of the field vole (*Microtus arvalis*).
- 17 **Emmerig H. & A. Gosler** - U Oxford : Of mothers and spots: A potentially adaptive relationship between calcium availability, eggshell pigmentation and incubation behaviour in the great tit (*Parus major*)
- 16 **Franc E., G. Le Lay, R. Engler & A. Guisan** – U Lausanne : Can spatial distribution models help sampling rare species?
- 18 **Frick H., W. Nentwig & C. Kropf** - Natural History Museum, Bern : Influence of stand-alone trees on epigeic spiders (Araneae) at the alpine timberline
- 19 **Guélat J., J. Jaquiéry, A. H. Hirzel, L. Brändli & N. Perrin** – U Lausanne : Metapopulation dynamics affect site occupancy in the greater white-toothed shrew (*Crocidura russula*)
- 20 **Helfer V., C. Salamin & L. Fumagalli** – U Lausanne : Molecular phylogeography of the alpine salamander *Salamandra atra* (Caudata: Salamandridae)
- 21 **Hoehn S., G. Vergnerie & M. Fischer** – U Zürich : 5-year demographic monitoring of 19 populations of *Lychnis flos-cuculi* in a fragmented landscape
- 22 **Jolivet C. & G. Bernasconi** – U Lausanne : Defensive traits against seed predation. The case of the *Silene latifolia-Hadena bicruris* system
- 23 **Kehrli P., S. D. Wratten, B. Lavandero, H. Don Vattala, M. A. Urrutia, Salah E. A. S. O. Araj, S. L. Scarratt & M. R. Wade** – U Fribourg : Selective floral resources: consequences for herbivore/natural-enemy interactions
- 24 **Müller C.** – U Zürich : Exclusive pup-adult associations in the cooperative banded mongoose are maintained vocally by both parties

- 25 **Piault R.** – U Lausanne : Melanism signals adaptations to specific combinations of food supply and immune challenge
- 26 **Poll M., J. M. Alexander, P. J. Edwards, H. Dietz & C. Parks** – ETH, Zürich : Plant invasions along altitudinal gradients: the role of competition, disturbance, propagule pressure and species origin.
- 27 **Randin C., W. Thuiller, N., Zimmermann, N. & A. Guisan** – U Lausanne : Climate change impact on plant distributions in European mountains: confronting continental to local projections
- 28 **Rathey E., M., Obrist, P. Christe & M. Moretti** – U Lausanne : Species diversity and activity of bats in managed versus abandoned chestnut orchards
- 29 **Rocker S., J. Hanafi, M. H. Schmidt & A. Gigon** – ETH, Zürich : Influence of rotational fallows on the spider fauna in fen meadows of northern Switzerland
- 30 **Röder G., M. Rahier & R. Naisbit** – U Neuchâtel : A paradoxical response by an alpine beetle to poor quality food: rust fungus infection as a signal that winter is coming
- 31 **Ruf D., V. Gartmann, U. Hildebrandt & M. Rostás** – U Würzburg, Germany : Effects of the epicuticular wax-layer of barley on *Spodoptera frugiperda* and its parasitoid *Cotesia marginiventris*
- 32 **Sautter M., G. Pasinelli & K. Schiegg** – U Zürich : Reproductive success of Reed Bunting (*Emberiza schoeniclus*) in young versus old reed patches
- 33 **Schlup, B.M., J.C. Bolli, H. Bugmann, P. J. Edwards & H. H. Wagner** - WSL Birmensdorf : How important is connectivity for dry meadow plant communities?
- 34 **Schwarzenbach G. A., & P. I. Ward** - U Zürich - Zoology Museum, Zürich : Correlated responses to selection on an immune parameter in yellow dung flies
- 35 **Stadelmann B. & M. Ruedi** – Natural History Museum, Geneva : Molecular phylogeny of New World *Myotis* (Chiroptera, Vespertilionidae) inferred from mitochondrial and nuclear DNA genes
- 36 **Sykorová Z., A. Wiemken & D. Redecker** – U Basel : Community studies of arbuscular mycorrhizal fungi in Swiss alpine meadows
- 37 **Tanner M., M. Kölliker & H. Richner** – U Bern : Parental strategies for controlling the level of offspring competition in Great Tit (*Parus major*) nests
- 38 **Teixeira S. & G. Bernasconi** – U Lausanne : "Multiple paternity in the white campion (*Silene latifolia*, Caryophyllaceae)"
- 39 **Thiel-Egenter C., S. Brodbeck, R. Holderegger, P. Linder & F. Gugerli** – WSL : Comparative phylogeography of two alpine *Geum* species
- 40 **Thüler K. & P. Ward** - U Zürich - Zoological Museum, Zürich : Genetic variances and co-variances of sperm and female tract characters
- 41 **Vergnerie G., S. Hoehn & M. Fischer** – U Zürich : Selection and complementarity in a pollen diversity experiment
- 42 **Vittoz P., A. Guisan, M. Rebetez & A. Buttler** : PERMANENT.PLOT.CH: a databank for Swiss permanent vegetation plots
- 43 **Vogler C., L. Brändli, J. Jaquiéry & N. Perrin** – U Lausanne : Connectivity threshold in a treefrog (*Hyla arborea*) metapopulation
- 44 **Weber S., C. Thiel, J. Schneller & F. Gugerli** – WSL - U Zürich : Genetic diversity of an alpine "multi-species organism" in areas of conservation interest
- 45 **Widmer I., D. Csencsics, R. Holderegger & C. Scheidegger** – WSL : European phylogeography of the epiphytic lichen *Lobaria pulmonaria*
- 46 **Winter T. & M. Rostás** - U Würzburg, Germany : Ambient UV-B affects plant physiology but doesn't disturb tritrophic interactions
- 47 **Wirth L. R., F. Gugerli, A. Erhardt, N. M. Waser, M. Price, P. Linder & R. Holderegger** – WSL : Reproductive facilitation: do alpine plants facilitate each other to attract pollinators?
- 48 **Zschokke S. & T. Krummenacher** – U Basel : Negative inbreeding effects in mammals decrease with body mass
- 49 **Zschokke Samuel, Toya Krummenacher & Bruno Baur** – U Basel : Inbreeding in zoo populations