

Program biology05

Thursday, 24 February 2005

08:15	Registration, coffee	
09:20	Jürg Stöcklin	Welcome and info
09:30	Peter Klinkhamer (Leiden University, The Netherlands)	Sex allocation in hermaphrodite plants (keynote lecture)
10:15	Antonina Internicola , N Juillet, A Smithson & L Gigord (U Lausanne)	Experimental investigation of density-dependent reproductive success in a rewardless orchid
10:30	Christopher Kaiser (U Zürich)	Facilitative or competitive interactions for pollination between an invasive and a native plant species: an experimental approach
10:45	Rolf Kümmerli , K Helms & L Keller (U Lausanne)	Experimental manipulation of queen number affects colony sex ratio investment in the highly polygynous ant <i>Formica exsecta</i>
11:00	Break, poster session	
11:30	Urs Landergott , R Holderegger, JD Thompson & JJ Schneller (U Zürich)	Is there a female advantage in seed weight in gynodioecious mountain thyme associated with the species' sex ratio change along altitudinal gradients?
11:45	Ursina Tobler (U Zürich)	Mating behaviour in the common toad: Effects of population density
12:00	Barbara Holzer , Laurent Keller & Michel Chapuisat (U Lausanne)	Genetic structure and recognition ability in an unicolonial <i>Formica</i> ant
12:15	Stefan W Müller , Hans-Peter Rusterholz & Bruno Baur (U Basel)	Genetic structure of two relic plant species in the Swiss Jura mountains
12:30	Felix Gugerli , JC Walsler, K Dounavi, R Holderegger, R Finkeldey (WSL)	Fine-scale spatial congruence between taxon assignment based on leaf morphological characteristics and nuclear microsatellite variation in <i>Quercus petraea</i> and <i>Q. robur</i>
12:45	Julie Jaquiéry , Alexandre Hirzel & Nicolas Perrin (U Lausanne)	Effective size and capacity of metapopulations: a simulation approach
13:00	lunch break	
14:15	Meredith Blackwell (Louisiana State University, USA)	Fungal associations with arthropods: an inordinate fondness for fungi (keynote lecture)
15:00	Anne-Marie Fiore-Donno , C Berney, J Pawlowski & SL Baldauf (U Genève)	Higher-order phylogeny of <i>Myxomycetes</i> (Myxogastria)
15:15	Philipp Raab , Annemarie Brennwald & Dirk Redecker (U Basel)	Mitochondrial large subunit rDNA sequences as novel marker genes in the <i>Glomeromycota</i>
15:30	Anne Streiff , Michelle Price & Nicole Galland (U Lausanne)	Phylogeny of <i>Grimmia</i> Hedw. (Grimmiaceae, Bryopsida): reproductive strategies influence evolution rates
15:45	Laura Brändli , Lori Handley & Nicolas Perrin (U Lausanne)	Phylogeography and demographic processes inferred from sex-specific markers; in the greater white-toothed shrew, <i>Crocidura russula</i>
16:00	Break, poster session	
16:30	Gabriele Soland , Gerald Heckel, Peter Fluri & Laurent Excoffier (U Bern)	Consequences of breeding programs on genetic structure and gene flow in the honeybee population in the Alpine region
16:45	Mathieu Perret (Geneva Botanical Garden)	Flower color evolution in Sinningieae (Gesneriaceae): phylogenetic and molecular aspects
17:00	Patrick Basset , G Yannic, H Brünner & J Hausser (U Lausanne)	Chromosomal rearrangements and gene flow in hybrid zones between shrews of the <i>Sorex araneus</i> group
17:15	Alessia Guggisberg , Sylvia Kelso & Elena Conti (U Zürich)	Testing the secondary contact model: the case of the <i>Primula egalikensis</i> -complex (sections Aleuritia/Armerina, Primulaceae)
18:15	Apéro at the Zoo Basel & Darwin lecture	
	Anders Pape Møller (U Marie et Pierre Curie, Paris, F)	Charles Darwin and the bird man
19:30-22:30	Darwin's Birthday Party with Band Challab	Banquet with live music

University of Basel, Pharmacenter, Klingelbergstr 50-70

Chairs: Jürg Stöcklin, Dirk Redecker



Friday, 25 February 2005

Chairs: Bruno Baur, Jürg Stöcklin

08:30	Registration	
09:15	Jan Bengtsson (Swedish U of Agricultural Sci, Uppsala)	From local to regional processes: Ecology in managed and experimental landscapes (keynote lecture)
10:00	Peter Wandeler , Fridolin Zimmermann & Stephan M Funk (U Zürich)	Inferring dispersal in a continuous population of red foxes
10:15	Katrin Maurer , Anne Weyand, Markus Fischer & Jürg Stöcklin (U Basel)	Influence of human land use on genetic diversity of <i>Poa alpina</i> L. in the Swiss Alps – a microsatellite study
10:30	Manuel Schweizer , Laurent Excoffier & Gerald Heckel (U Bern)	Dispersal and fine-scale genetic pattern in the common vole <i>Microtus arvalis</i>
10:45	C Randin , T Dirnböck, A Guisan, N Zimmermann, S Dullinger (U Lausanne)	Testing the geographic transposability of predictive plant species distributions models
11:00	Break, poster session	
11:30	Rolf Debrunner , Gwenaël Jacob, Kurt Bollmann & Felix Gugerli (WSL)	Population size estimation of Capercaillies (<i>Tetrao urogallus</i>) in the canton of St. Gallen - Field estimates validated by genotyping faeces
11:45	Heiko Schmaljohann , F Liechti, B Bruderer (U Basel)	Spring migration of passerines across the Sahara: One large jump or several small hops?
12:00	Nicolas Margraf , S Taylor, C Tepolt & IG Jamieson (U Neuchâtel)	Wildlife translocation and inbreeding: the case of two endemic New Zealand bird species
12:15	Urs A Treier & Heinz Müller-Schärer (U Fribourg)	The geographical distribution of genetic variation in the toxic pasture weed <i>Veratrum album</i> in relation to its colonisation history
12:30	Samuel Neuenschwander , CR Largiadèr & L Excoffier (U Bern)	Simulation based estimates of the Bayesian estimation of the colonization history of <i>Cottus gobio</i> L. in the Swiss Rhine basin
12:45	Benoit Facon , P Jarne, JP Pointier & P David (U Lausanne)	Hybridization and invasiveness in the freshwater snail <i>Melanooides tuberculata</i>
13:00	Lunch break	
13:00-14:00	Annual meeting of the Swiss Zoological Society	
14:15	Mark van Kleunen (U Potsdam, Germany)	Constraints on the evolution of adaptive phenotypic plasticity in plants (keynote lecture)
15:00	Thomas Fabbro & Thomas Steinger (U Fribourg)	Evolution of herbivore-induced resistance in wild mustard (<i>Sinapis arvensis</i>)
15:15	Gillianne Vergnerie , Sophie Hoehn & Markus Fischer (U Zürich)	Effects of inter-population crosses between fragmented populations of the common <i>Lychnis flos-cuculi</i> : first generation
15:30	Christoph Vorburger (U Zürich)	Positive genetic correlations among major life-history traits related to ecological success in the aphid <i>Myzus persicae</i>
15:45	Sandra Lass & Dieter Ebert (U Basel)	The rise and fall: causes of prevalence fluctuation in a parasite with horizontal and vertical transmission
16:00	Break, poster session	
16:30	Presentation of Poster Award	
16:45	Martin Grüebler (U Zürich)	Breeding in a hurry: the timing of second broods in the Barn Swallow affects over-all reproductive success
17:00	Hansjörg Kunc , V Amrhein & M Naguib (U Bielefeld, Germany)	Whistles make a difference: male nightingales (<i>Luscinia megarhynchos</i>) whistle at night to attract females
17:15	Dik Heg , Nicole Bender & Ian Hamilton (U Bern)	Strategic growth decisions in helper cichlids
17:30	Heiri Wandeler , G Uehlinger & S Bacher (U Bern)	Compatibility of the creeping thistle and its potential control agent <i>Puccinia punctiformis</i>
17:45	Linda Hollén & Marta Manser (U Zürich)	Age related modification of alarm call response strategies in meerkats (<i>Suricata suricatta</i>)
18:00	End of conference	

Poster presentations

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- 01 Florian **ALTERMATT** & Dieter Ebert, U Basel: Local parasites promote host immigration success
- 02 Valentin **AMRHEIN** & Nathalie Erne, U Basel: Dawn singing reflects yesterday's territorial challenges in the wren
- 03 Susanne **APPOLONI**, R Bunn, C Zabinski & D Redecker, U Basel: Symbioses in extreme environments: Molecular community analysis of arbuscular mycorrhizal fungi in roots from geothermal soils in Yellowstone National Park (USA)
- 04 Muriel **BENDEL**, F Kienast, H Bugmann, D Rigling, WSL: Coarse-scale population structure of *Armillaria cepistipes*, *A. borealis*, and *A. ostoyae* in the mountain pine forests of the Swiss National Park
- 05 Christian **BENETOLLO** & A Guisan, U Lausanne: Using predictive models to monitor and estimate population size of an invasive species
- 06 Ralph **BERGMÜLLER** & Michael Taborsky, U Neuchâtel: Strategic niche specialisation in helpers in a cooperative breeder, *Neolamprologus pulcher*
- 07 Sofia **CAETANO**, Naciri Y & R Spichiger, Cons et jard botan Geneva: Genetic differentiation of the Pleistocenic Arc tree *Astronium urundeuva* in South America
- 08 Elodie **CHAPUIS**, S Trouvé & J Goudet, U Lausanne: Molecular vs. quantitative variation between contrasted habitats in a high selfing species: indirect evidence of selection
- 09 Lisèle **CRÉMIEUX**, A Bischoff, T Steinger & H Müller-Schärer, U Fribourg: Consequences of genetic introgression from foreign provenances into local plant populations: implication for biodiversity restoration in agro-ecosystems
- 10 Aline **DÉPRAZ** & Jacques Hausser, U Lausanne: Postglacial recolonisation of the Alps at a snail's pace, *Trichia villosa* (Hygromiidae, Gastropoda)
- 12 René **ESCHEN**, Urs Schaffner & Heinz Müller-Schärer, CABI Bioscience, Delémont: Carbon addition alters vegetation development on ex-arable fields
- 13 Guillaume **EVANNO**, E Castella & J Goudet, U Lausanne: Measuring the genetic structure of populations: an approach using neutral and quantitative markers in the freshwater snail *Radix balthica*
- 15 Sabine **FINK**, Laurent Excoffier & Gerald Heckel, U Bern: The effects of local adaptation and historical divergence on mitochondrial gene diversity in the common vole (*Microtus arvalis*, Rodentia)
- 16 **ECOGENICS** GmbH, Zürich-Schlieren: Molecular marker services
- 18 Mailyn Adriana **GONZALEZ** & Luc Gigord, U Lausanne: Adaptive significance of the heterophyllic polymorphism in a native tree of La Réunion Island (Indian Ocean)
- 19 Michele **GUSBERTI**, C Smit & H Müller-Schärer, U Fribourg: Seedling establishment of *Picea abies* in relation to nurse structures
- 20 Marcel P **HAESLER**, Simone Immler & Michael Taborsky, U Bern: Unusual testes morphology and its implications for the reproductive biology of the lekking cichlid *Ophthalmotilapia ventralis* (Cichlidae, Teleostei)
- 21 Yann **HAUTIER**, S Peverelli & A Guisan, U Lausanne: Effect of provenance on plant fitness along an elevation transect
- 22 Matthias **HELD**, C Schnee, T Koellner, J Degenhardt & T Turlings, U Neuchâtel: Studying tritrophic interactions by manipulating the release of terpenoid volatiles with molecular techniques
- 23 Elze **HESSE**, Mark Rees & Heinz Müller-Schärer, U Fribourg: Life-history traits and population dynamics of the perennial herb *Veratrum album* in contrasting habitats
- 24 Isabelle **HJURI**, F Oehl, K Ineichen, P Mäder, A Wiemken & D Redecker, U Basel: Molecular characterization of arbuscular mycorrhizal fungal species communities in agriculturally-used soils
- 25 Sophie **HOEHN**, Gillianne Vergnerie & Markus Fischer, U Zürich: What are the consequences of longer-term inbreeding for the fitness of plants from a fragmented landscape ?
- 26 Beatriz **ITTEN** & Edi Urmi, U Zürich: Genetic diversity in European populations of *Sphagnum fimbriatum*
- 27 Héléne **JACCARD**, Christophe Randin & Antoine Guisan, U Lausanne: Importance of land use in predictive habitat modelling of plant species in the Swiss PreAlps
- 28 Gwenaél **JACOB**, K Bollmann & F Gugerli, WSL: Population structure in the capercaillie (*Tetrao urogallus*) in the Swiss Alps and relevance for the conservation of the species
- 30 Urs **KAMM**, Felix Gugerli, Rolf Holderegger, Peter Rotach & Peter J Edwards, ETH Zürich: Landscape genetics of a rare, naturally scattered temperate forest tree (*Sorbus domestica*)
- 31 Seraina **KLOPFSTEIN** & Laurent Excoffier, U Bern: Surfing mutations
- 32 Albert **KÖLBENER**, Dieter Ramseier & Matthias Suter, ETH Zürich: Competition alters response of three wetland species to zinc and nickel
- 33 Mirka **MACEL**, A Buchala & H Mueller-Schärer, U Fribourg: Does plant provenance affect soil microbial communities?
- 34 Romain **MAYOR**, Aeschmann D, Lambelet C, Naciri Y: Population Biology of *Aster amellus*
- 35 Doina **MUNCACIU** & Georg Ribi, U Zürich: The abundance of adult *Astropecten* (Asteroidea) may have decreased in the western Mediterranean: A good reason to look into the nursery
- 36 Russell **NAISBIT**, U Neuchâtel: There's no such thing as a free lunch: the cost of defence chemical sequestration in a leaf beetle
- 37 Christian **PARISOD** & Nicole Galland, U Lausanne: Postglacial phylogeography of the autotetraploid *Biscutella laevigata* in the Western Alps revealed by chloroplastic markers
- 38 Daniela **PAULI**, Irene Künzle & Sylvia Martinez, Swiss Biodiversity Forum, Swiss Academy of Science, Bern: Swiss Biodiversity Forum
- 39 Michelle J **PRICE** & Anne Streiff, Conservatoire et Jardin Botaniques, Geneva: Index Hepaticarum: a useful tool for global liverwort biodiversity ?
- 41 Sergio **RASMANN**, TG Köllner, J Degenhardt, I Hiltbold, S Töpfer, U Kuhlmann, J Gershenzon & TCJ Turlings, U Neuchâtel: Recruitment of entomopathogenic nematodes by insect-damaged maize roots

- 42 Dominik **REFARDT** & Dieter Ebert, U Fribourg: Different views on local adaptation of a microparasite to its invertebrate host
- 43 Thomas **REICHLIN**, Erich Klausek & Klaus Hackländer, U Bern: Choosey European hares: Diet selection of *Lepus europaeus* in arable land
- 44 Gregory **RÖDER**, U Neuchâtel: Interactions between a foliar disease (rust) and the herbivorous leaf beetles *Oreina elongata* and *Oreina cacaliae* (Coleoptera: Chrysomelidae) on their alpine host plant *Adenostyles alliariae*
- 45 Philippe **SANER**, Philipson & A Hector, U Zürich: How do shadehouse grown dipterocarp saplings develop under different light conditions, is there evidence for an ecological trade-off?
- 46 Benedikt R **SCHMIDT** & Jérôme Pellet, U Zürich: Population size and site occupancy in two anurans
- 47 Rouven Z **SCHMIDT**, HP Kunc, V Amrhein & M Naguib, U Bielefeld: Does prior information gained during vocal interactions influence subsequent contests in male nightingales (*Luscinia megarhynchos*)?
- 48 Tanja **SCHWANDER**, Sara Helms-Cahan & Laurent Keller, U Lausanne: Genetic caste determination in harvester ants: a social solution to reduce costs imposed by hybridization?
- 49 Lisa NS **SHAMA** & Christopher T Robinson, ETH Zürich: Sex-specific life history responses to seasonal time constraints in an alpine caddisfly
- 50 Frederic **SINNIER**, P Chevaldonné & J Pawlowski, U Geneva: Phylogeny of the order Zoantharia (Anthozoa, Hexacorallia) based on mitochondrial genes
- 51 Christian **SMIT**, Charlotte Vandenberghe, Francois Frélichoux & Heinz Müller-Schärer, U Fribourg: Effects of grazing intensity on facilitation
- 52 Thomas **SPIEGELBERGER**, Urs Schaffner & Heinz Müller-Schärer, CABI Bioscience, Delémont: Increasing spatial scale changes predictors for plant species richness and functional groups
- 53 Chantal **STAEHLI**, M Moretti & JD Gallandat, U Neuchâtel: The role of fire in the dynamics of threatened plants in the Swiss Alps: the *Cistus salviifolius* community as a study case
- 54 Claude **STECK** & Matthias Bürgi, ETH Zürich: Hotspots of common and endangered grasshopper species – differentiation and conservation
- 55 Fabrizio **STEINEBRUNNER**, F Schiestl & A Leuchtman, ETH Zürich: Odour-communication in a symbiotic fungus-fly interaction
- 56 Zuzana **SYKOROVÁ**, Andres Wiemken & Dirk Redecker, U Basel: Host preferences of arbuscular mycorrhizal fungi?
- 57 Conny **THIEL-EGENTER**, Rolf Holderegger & Felix Gugerli, Eidg. Forschungsanstalt WSL: INTRABIODIV – Comparing biodiversity at three levels: habitats, plant species and genes
- 58 J **TON**, Violaine Jourdie, G Jakab & TCJ Turlings, U Neuchâtel: Herbivory-induced volatiles of maize prime neighbouring plants for defense gene expression
- 59 Britta **TSCHANZ**, Louis-Félix Bersier & Sven Bacher, U Bern: Host plant exposure causes interference between predators
- 60 Barbara **TSCHIRREN** & Heinz Richner, U Bern: Resource allocation trade-off between growth and immunity shapes parasite defence
- 61 Charlotte **VANDENBERGHE**, Freléchoux F, Moravie MA & Buttler A, EPF Lausanne: Short-term effects of cattle grazing on tree sapling growth of Norway spruce, Silver fir, Sycamore maple and Beech in grasslands
- 62 Elisabetta **VANNONI** & Alan G McElligott, U Zürich: Acoustic correlates of male quality in fallow deer and their implications for intrasexual competition
- 63 Daniel **WEGMANN**, Mathias Currat & Laurent Excoffier, U Bern: Spatial and temporal heterogeneity during range expansions
- 65 Silke **WERTH**, D Csencsics, HH Wagner & C Scheidegger, U Bern: Dispersal and persistence of the old forest lichen *Lobaria pulmonaria* in a dynamic landscape
- 66 Anne **WEYAND**, Katrin Maurer, Jürg Stöcklin & Markus Fischer, U Zürich: Adaptation of *Poa alpina* L. to the Heterogeneous Landscape of the Swiss Alps
- 67 Lena **WILFERT**, Jürgen Gadau & Paul Schmid-Hempel, ETH Zürich: QTLs for male reproductive investment and immune defense – is there a genetic trade-off?
- 68 Lea R **WIRTH**, Andreas Gigon & Hansjörg Dietz, WSL: How do aspect and altitude affect age and growth of *Erinus alpinus*?
- 69 Sabine **WIRTZ**, Ribí Georg & Steinmann Patrick, U Bern: Sperm allocation in a polyandrous, sperm limited fish, the Eurasian perch (*Perca fluviatilis* L.)
- 70 Glenn **YANNIC**, Patrick Basset & Jacques Hausser, U Lausanne: Study of hybrids zones between species of the *Sorex araneus* group with sex-specific markers
- 71 Yi **SONG**, Yong-ming Yuan & Philippe Küpfer, U Neuchâtel: Phylogeny of Balsaminaceae: Evidence from chloroplast DNA sequences

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