CUSO workshop
MANAGING ADAPTIVE GENETIC VARIATION IN CONSERVATION BIOLOGY
La Fouly (VS), Switzerland
3-6 September 2008

Wednesday 3rd Sept.

Time	***Event***	
14:30	Arrival	
16:30	**Jon Slate** **(Univ. Shieffield, UK)**	**How can we identify and measure individual fitness variation in captive populations?**
17:30	Break	
18:00	Arati Iyengar (Univ. Central Lancashire, UK)	Remnants of ancient genetic diversity preserved within captive groups of scimitar-horned oryx (*Oryx dammah*)
18:15	Hitoshi Araki (EAWAG, CH)	Captive breeding and reproductive success: A salmon genetics perspective
18:30	Break	
19:00	Wines of the world buffet	

Thursday 4th Sept.

Time	***Event***	
08:30	**Juha Merilä (Univ. Helsinki, Finland)**	**Conservation of adaptive genetic diversity: insights from comparative studies of genetic markers and quantitative traits**
09:30	**Pierre Taberlet (Univ. Grenoble, F)**	**The population adaptive index: a new method for prioritizing populations for conservation**
10:30	Break	
10:50	Amber Teacher (Univ. London, UK)	Comparing neutral and adaptive genetic variation in amphibians experiencing mass mortalities from disease
11:05	Bénédicte Poncet (Univ. Grenoble, F)	New insights in local adaptation study using genome scan; application to the alpine plant *Arabis alpina*
11:20	Sylvain Antoniazza (Univ. Lausanne, CH)	Clinal color variation in European Barn owls: A role for local adaptation?
11:35	Break	
12:00	Lunch	
13:30	**Wayne Potts (Univ. Utah, USA)**	**Should we manage histocompatibility genetic variation in threatened species?**
14:30	Break	
14:50	Lars Forsberg (Södertörns Univ. College, Sweden)	A good genes effect mediated by male competition and not by ornaments in brown trout. Homozygote disadvantage at the MHC: more evidence for outbreeding depression
15:05	Alain Jacob (Univ. Lausanne, CH)	Good genes, MHC genes and offspring viability in brown trout (*Salmo trutta*)
15:20	Andrey Razpet (Ljbljana Univ., SLO)	Establishing a brood stock of least introgressed native brown trout from admixed populations
15:35	Break	
17:30	**Daniel Heath (Univ. Windsor, Canada)**	**Adaptive trait conservation: life history variation and local adaptation**
18:30	Break	
19:00	Dinner	

Friday 5th Sept.

Time	*Event*	
08:30	**Daniel Heath (Univ. Windsor, Canada)**	**Evolution by gene transcription modification in fish**
09:15	**Wayne Potts (Univ. Utah, USA)**	**Cryptic health degradation and the failure rate during reintroductions of captive-bred threatened species**
10:00	Break	
10:20	Katja Räsänen (ETH, EAWAG, CH)	Quantitative genetic basis of metamorphic traits in *R.arvalis*: phenotypic similarity does not equal genetic similarity
10:35	Monica Rossi (Politecnica delle Marche, I)	A genome scan to detect candidate regions influenced by selection during the evolution and domestication of *Phaseolus vulgaris* L.
10:50	Nina Pekkala (Univ. Jyväskylä, SF)	The effects of population fragmentation and subsequent hybridization on fitness and adaptation in experimental populations of *Drosophila littoralis*: preliminary results and future goals
11:05	Break	
11:25	**Pierre Taberlet (Univ. Grenoble, F)**	**New sequencing technologies and genome scans**
12:10	Lunch	
13:40	**Jon Slate (Univ. Shieffield, UK)**	**Gene mapping to study microevolution in the wild**
14:25	Break	
14:45	Séverine Vuilleumier (Univ. Lausanne, CH)	Fixation probability of locally adapted alleles in heterogeneous environment
15:00	Hélène Collin (Univ. Lausanne, CH)	Local adaptation in a potential threatened fish species: *Phoxinus phoxinus*
15:15	Break	
17:30	**Juha Merilä (Univ. Helsinki, Finland)**	**Disentangling selection from drift: a new framework to infer adaptive differentiation**
18:15	Break	
19:00	Dinner	

Saturday 6th Sept.

Time	***Event***	
08:40	M. Antonio Garcia-Cruz (Venezuelan Inst. Sc. Res., VE)	Demographic history and genetic structure of reproductive population of green turtle (*Chelonia mydas*) in Aves Island, Venezuela
08:55	Jérôme Goudet (Univ. Lausanne, CH)	Quantinemo, a tool to explore the consequences of demographic changes and selection on the fate of adaptative genetic variation
09:10	Samuel Neuenschwander (Univ. Lausanne, CH)	quantiNEMO: individual-based simulations of local adaptation
09:25	All participants - Final discussion	
11:30	Lunch	