

Programme

ESF Conservation Genetics Conference, Trondheim 23-26 May 2009

Saturday 23 May

- 14.00-20.00 Arrival and registration
20.00-23.00 Dinner / reception / mingling

Sunday 24 May

- 08.00-08.45 Breakfast
07.30-08.45 Arrival and registration, continued
09.00-09.15 Welcome from ESF ConGen (Kuke Bijlsma)
and local organizers (Kjetil Hindar)

Theme: **What is conservation genetics?**

Chair: Gunilla Rosenqvist

- 09.15-10.00 Invited keynote speaker

John C. Avise – *An overview of Conservation Genetics*

- 10.00-10.45 Invited keynote lecture

Kuke Bijlsma – *The dark side of genetic rescue: lessons from Drosophila*

- 10.45-11.15 Coffee break

Theme: **Inbreeding, mating system and conservation**

Chair: Henrik Jensen

- 11.15-12.15 Invited lectures

11.15-11.45 Jane Reid – *Inbreeding, inbreeding depression and extra-pair paternity in song sparrows*

11.45-12.15 Lukas Keller – *From agriculture to theory to conservation biology: inbreeding and its consequences*

- 12.15-13.00 Contributed papers

12.15 Xavier Vekemans – *The conservation genetics of self-incompatible plant species: assessing the S-Allee effect in *Biscutella neustriaca**

12.30 Asta Audzijonyte – *Estimating effective population sizes of vesicomid clams in deep-sea chemosynthetic communities*

12.45 Clare Marsden – *Highly endangered African wild dogs (*Lycaon pictus*) lack variation at the Major Histocompatibility Complex*

- 13.00-14.00 Lunch

Sunday 24 May, afternoon

Theme: Challenges from human-driven evolution

Chair: Ettore Randi

14.00-14.45 Invited keynote lecture

Fred Allendorf – *Genetics and the sustainable harvest of wild animal populations*

14.45-16.30 Contributed papers

14.45 Cristiano Vernesi – *Ecological, evolutionary and man-driven factors interact in shaping patterns of natural genetic variation across mammal species in Eastern Alps*

15.00 Iris Biebach – *Effects of the reintroduction history on genetic variation and inbreeding in Alpine ibex populations*

15.15 José A. Godoy – *The genetics of the highly endangered Iberian lynx*

15.30-16.00 Coffee & fruit break

16.00-17.00 Contributed papers

16.00 Juan L. Bouzat – *Genetic consequences of population bottlenecks: the role of chance, selection, and history*

16.15 Ingerid Julie Hagen – *Conservation genetics of the Solomon Islands prehensile tailed skink (*Corucia zebrata*) and concerns over the applied utility of such knowledge*

16.30 Sanne Boessenkool – *Rare migration events despite range expansion: spatiotemporal genetic analyses reveal the dynamic history of yellow-eyed penguins*

17.00-19.00 Poster session – I

20.00 Conference Dinner

Monday 25 May

07.00-08.30 Breakfast

Theme: **Conservation genomics**: a FUGE Mid-Norway seminar

Chair: Volker Loeschcke

08.30-10.00 Invited lectures

08.30-09.00 N. Joop Ouborg – *The evolution of conservation genetics to conservation genomics*

09.00-09.30 Torsten Nygård Kristensen – *Inbreeding investigated using ecological relevant assays and 'omic' technologies*

09.30-10.00 Richard Frankham – *Genetic revolutions in captive populations: Large genome-wide impacts of selective sweeps on neutral diversity in populations adapting to captivity*

10.00-10.30 Contributed papers

10.00 Kamilla Sofie Pedersen – *Proteomic characterization of a temperature sensitive conditional lethal in Drosophila melanogaster*

10.15 Jack J. Windig – *Use of genomics for conservation of rare livestock breeds*

10.30-11.00 Coffee break

Theme: **Population genetics theory and models**

Chair: Reinhard Bürger

11.00-12.00 Invited lectures

11.00-11.30 Armando Caballero – *Management and analysis of subdivided populations*

11.30-12.00 Steinar Engen – *Age-structured populations in a fluctuating environment: Demography, drift, fixation and selection*

12.00-12.45 Contributed papers

12.00 Joao Sollari Lopes – *Studying the history of populations using an approximate bayesian computation*

12.15 Juan J. Robledo-Arnuncio – *Estimating real-time gametic introgression in a risk assessment context*

12.30 Jisca Huisman – *Modelling the effects of escaped farmed salmon on genetics and fitness of wild populations*

12.45-14.00 Lunch

Monday 25 May, afternoon

Theme: Conservation genetics in northern environments

Chair: Hans Stenøien

14.00-15.20 Invited lectures

14.00-14.20 Inger Greve Alsos – *Arctic plants in a conservation perspective*

14.20-14.40 Michael Møller Hansen – *When the going gets tough: brown trout populations under anthropogenic pressure*

14.40-15.00 Øystein Flagstad – *Hybridization and introgression of domestic genes in the Arctic fox: A threat to the persistence of free-ranging populations*

15.00-15.30 Contributed papers

15.00 Hitoshi Araki – *Genetic effect of captive breeding on a supplemented population: a salmonid study*

15.15 Anna Cassel-Lundhagen – *Range margin populations of widespread species; evolutionary hotspots or just more of the same? – examples from two *Coenonympha* butterflies*

15.30-16.00 Coffee & fruit break

Theme: Genetic monitoring in conservation

Chair: Josef Bryja

16.00-16.50 Invited lectures

16.00-16.30 Linda Laikre – *Who cares about the genes? Genetic diversity is neglected in international conservation policy*

16.30-17.00 Isabelle Olivieri – *Integrating demographic and genetic monitoring in conservation biology*

17.00-18.00 Contributed papers

17.00 Phillip England – *Combining tools from oceanography and population genetics to detect cryptic population structure: applications in marine conservation*

17.15 Marta De Barba – *Genetic monitoring of population expansion, reproduction, and genetic composition of the translocated brown bear (*Ursus arctos*) population in the Italian Alps*

17.30 Maria Gulbrandsen Asmyhr – *Evaluating the use of noninvasive sampling as a monitoring tool for the Ethiopian wolf (*Canis simensis*) of northern Ethiopia*

17.45 Hans Peter Koelewijn – *Reintroduction of the otter (*Lutra lutra*) into The Netherlands: hidden life revealed by non-invasive genetic monitoring*

18.00-19.30 Poster session – II

20.00 Dinner

Tuesday 26 May

07.00-08.30 Breakfast

Theme: **Landscape genetics, hybridization and outbreeding depression**

Chair: Luc De Meester

08.30-09.15 Invited keynote lecture

Philip W. Hedrick – *Genetic rescue and hybridization in endangered species*

09.15-10.30 Contributed papers

09.15 Christopher W. Wheat – *From molecules to metapopulations: finding the variation affecting butterfly dispersal in a fragmented and dynamic landscape*

09.30 Gernot Segelbacher – *The potential of landscape genetics for conservation*

09.45 Ülo Väli – *Widespread hybridisation with the Lesser Spotted Eagle threatens the Greater Spotted Eagle in Europe*

10.00 Violeta Muñoz-Fuentes – *Differentiation and hybridization in coastal wolves from the rain forests of British Columbia*

10.15-11.00 Coffee break and checking out

11.00-11.45 Invited keynote lecture

Richard Frankham – *Predicting outbreeding depression: Critical information for managing fragmented populations*

11.45-13.00 Discussion and closing remarks

13.00-14.30 Lunch