



Stockholm University
August 17–21 2015
Programme

Monday 17 Aug	Tuesday 18 Aug	Wednesday 19 Aug	Thursday 20 Aug	Friday 21 Aug
	<p>Species Interactions Xavier Lambin</p>	<p>Population Genetics Jennifer Leonard</p>	<p>Conservation Biology David Macdonald</p>	<p>Ecology & Landscapes Henrik Andrén</p>
Workshops	Species Interactions	Population Genetics	Conservation Biology	Ecology & Landscapes
	Conservation Genetics Mike Bnuford	Herbivory Kjell Danell	Predation Urs Breitenmoser	Disease & Parasites Heikki Henttonen
	Ecological Modelling Nigel Yoccoz	Behaviour Tim Clutton-Brock	Domestication Gregor Larson	Ancient DNA Ian Barnes
	Captive Populations Anild Landa	Paleontology Anjali Goswami	Evolution & Systematics Selma Brace	Community Ecology Bodil Einthagen

Conference information and registration: <http://www.zoologi.su.se/ecm7/>

Facebook: <https://www.facebook.com/ecm7stockholm>

Twitter: <https://twitter.com/ECMStHm2015>

Instagram: <https://instagram.com/ecmsthlm2015/>

Organizers:

Anders Angerbjörn, Stockholm University
Love Dalén, Swedish Museum of Natural History
Lars Werdelin, Swedish Museum of Natural History

Monday – Workshops

To participate in workshops: Contact the person/persons responsible for the workshop (e-mails below)

Workshop I: Lagomorph Biology

Contact: Paulo C Alves (pcalves@fc.up.pt) & Klaus Hackländer (klaus.hacklaender@boku.ac.at)

Part I Talks: New insights into lagomorph biology

We invite colleagues to submit abstracts on recent findings on lagomorph paleontology, taxonomy, ecology, physiology, diseases, genetics, etc.

Part II Workshop: The role of lagomorph as keystone species in a changing world

Bringing together examples of challenges for lagomorphs due to changing environmental conditions. Lessons learned from various experiences in different regions will be discussed to work on management recommendations and ideas for future avenues of lagomorph research.

This workshop aims to initiate a review paper on this topic.

Workshop II: Fox Ecology

Contact: Karin Norén (karin.noren@zoologi.su.se)

New research in fox ecology using foxes as an ecological model system

Considering the wide geographic distribution across contrasting habitats, ecological function, behavioral plasticity and close interplay with the environment, foxes are ideal model species for understanding a wide variety of ecological processes.

To highlight the value of foxes as an ecological model system, we invite all colleagues to submit abstracts covering their recent findings on fox ecology, including the topics of evolution, community ecology and population dynamics, behavior, genetics, diseases and conservation.

We hope for scientific representation from many geographic regions and that we can benefit from experiences across species and regions.

The aim is to initiate and strengthen scientific collaborations and discuss possibilities to produce a review paper on the topic.

Workshop III: Mammalian Personality in Ecology and Conservation

Contact: Ulrika Alm Bergvall (Ulrika.Alm-Bergvall@zoologi.su.se)

Presentations and workshop: Methods to improve measurement of behavioral phenotypes

The importance of considering individual behavioural phenotypes, personality, in ecology and conservation requires both theoretical knowledge and ingenuity.

Behaviours are by nature plastic. Discovering the non-plastic component and reveal personality, can be a challenge, but have been shown to be important in conservation. Although there are differences between methods and theories, the way forward is to discover and share experiences from what have been done and how these measures can be interpreted.

We invite all colleagues to submit abstracts covering their findings on animal personality. We hope for scientific representation from many different study systems and methods, such as comparisons between behavioural and physiological measures of personality. The aim of this session is to initiate and strengthen scientific collaborations and we want to give room to discuss practical issues of behavioural phenotyping under field conditions.

Workshop IV: Setting Up a Camera Trapping Network in Europe

Contact: Frank van Langevelde (frank.vanlangevelde@wur.nl), Patrick Jansen (patrick.jansen@wur.nl) & Dries Kuijper (dkuijper@ibs.bialowieza.pl)

Establishing a camera trapping network to monitor changes of wildlife communities across Europe

Global changes in land use and climate are causing large changes in the geographical range of mammals, which along with the introduction of invasive species produce entirely novel wildlife communities. At the same time, re-colonization or "re-wilding" (e.g. ungulates and carnivores such as wolf and lynx across Europe) occurs in many parts of the northern hemisphere. These changes may have enormous consequences for ecosystem functioning and human well-being, for example for agriculture and forestry, disease transmission between wild and domestic animals, hunting, recreation and ecotourism. To better measure the changes in local wildlife populations and the geographic range of wildlife species, we propose to establish a European camera-trapping network in which scientists and citizens jointly monitor changes in the distribution and composition of wild life communities across Europe.

During this workshop, we would like;

(1) to exchange information about standardization of camera trapping as to generate useful data (how to collect, store and process images and videos, how to analyze the data, e.g. modeling distribution of species based on camera trapping data, and what data is needed to be used by forestry and wildlife managers)

(2) to explore opportunities for establishing a pan-European network (what framework could be used, what funding opportunities exist).

Workshop V: A Roadmap to De-Novo Assembly of Mammal Genomes

Contact: Stefan Prost (stefan.prost@berkeley.edu)

Whole genome based analyses are becoming increasingly important in biological research, spanning, but not limited to, evolutionary, medical, and conservation contexts. Genome assembly, an initial step in genomic analyses, is a rapidly developing area of research, and so staying up to date with its current state can be challenging. Furthermore, it can be difficult to understand for researchers new to the field. This workshop is targeted towards researchers having anywhere from no background up to advanced knowledge of genome assembly. It will function as a roadmap from designing genome sequencing projects up to obtaining a "final" genome assembly, with some brief discussion of downstream analyses. I will start very basic by covering topics such as the different sequencing technologies available, and how to decide on which sequencing platform and library preparation method to use. Then I will outline the different steps needed to process the raw sequencing data, as well as the different assembly, quality assessment and improvement methods. To make the workshop more user-friendly, I will discuss popular tools employed at the different steps.

For full programme, see <http://www.zoologi.su.se/ecm7/workshops.php>

18.00: Conference Welcome Reception at the Swedish Museum of Natural History

The Museum is located approx. 5 min walk from Stockholm University

Free admission for all conference participants

Tuesday

9.00 - 9.20

Anders Angerbjörn, Love Dalén & Lars Werdelin: Welcome!

9.20 - 10.20

Species Interactions Plenary: Xavier Lambin
Trophic interactions in asynchronously fluctuating populations: predation and the cost of dispersal

10.20 - 10.50

Coffee

10.50 - 11.10

Marietjie Landman: Comparing the efficiency of DNA barcoding and microhistology methods to describe elephant diet: consequences for understanding elephant-plant dynamics

11.10 - 11.30

Neil Reid: Macroecology of the Order Lagomorpha; implications for the impact of global climate change

11.30 - 11.50

Karol Zub: Climate warming is affecting mortality of weasels due to camouflage mismatch

11.50 - 12.10

Pablo Ferreras: Do widespread generalist carnivores segregate their niches?
A multidimensional study using red foxes and stone martens in Mediterranean Europe

12.10 - 12.30

Matt Hayward: No teddy bears picnic-a review of ungulate predation and prey selection by the brown bear in the Holarctic

12.30 - 14.00

Lunch

	Species interactions	Conservation genetics	Ecological Modelling	Captive populations
14.00 - 14.40		<u>Keynote: Mike Bruford</u> Conservation prioritisation using omic data: signal, noise and the power of domestication	<u>Keynote: Nigel Yoccoz</u> Modelling the impacts of climate change on mammals: how to open the ecosystem black box?	<u>Keynote: Arild Landa</u> Species at risk. Captive breeding and reintroduction: challenges, pit-falls and successes
14.40 - 15.00	Can shrews influence local hantavirus prevalence in bank voles? <i>Hussein Khalil</i>	Transfrontier lion conservation: applying genetics across time and space <i>Simon Dures</i>	Quantifying endemic uniqueness and ecological equivalency between native and invasive leporids <i>Anthony Caravaggi</i>	Estimating dispersal in Arctic fox juveniles released from the Norwegian captive-breeding program <i>Anne-Mathilde Thierry</i>
15.00 - 15.20	Environment and host species composition effects on highly host-specific assemblages of ectoparasites of bats <i>Alan Fredy Eriksson</i>	Development of genomic resources for the conservation of the Scandinavian wolverine population <i>Robert Ekblom</i>	Factors affecting southern water vole (<i>Arvicola sapidus</i>) detection and occupancy probabilities in Mediterranean farmland <i>António Ferreira</i>	Evolutionary maintenance of personality via spatiotemporal fluctuations in the environment: A field experiment on European mink (<i>Mustela lutreola</i>) <i>Marianne Haage</i>
15.20 - 15.40	Home alone: Juvenile survival in relation to maternal experience and loneliness <i>Rasmus Erlandsson</i>	Population structure and recent temporal changes in genetic variation in Eurasian otters from Sweden <i>Jean-Luc Tison</i>	Predicted Pleistocene-Holocene range shifts of the tiger (<i>Panthera tigris</i>) <i>David Cooper</i>	How introduction effort promotes invasion success in mammal species <i>Sally Street</i>

15.40 - 16.20

Coffee & Poster Session

	Species interactions	Conservation genetics	Ecological Modelling	Captive populations
16.20 - 16.40	The role of resource partitioning in supporting UK bat diversity <i>Rosalyn Ware</i>	Inbreeding, outbreeding, and the transformation of the critically endangered Sierra Nevada red fox: Genetic rescue or genomic replacement? <i>Ben Sacks</i>	Influence of recent global change on the range contraction of an endangered semi-aquatic mammal (<i>Galemys pyrenaicus</i>) in the French Pyrenees <i>Anaïs Charbonnel</i>	Species determination of lesser galagos (<i>Galago spp.</i>) at zoos integrating molecular-genetic and bioacoustic data <i>Irena Schneiderová</i>
16.40 - 17.00	Abundance and distribution of hare hybrids in Finland <i>Riikka Levänen</i>	Male mediated gene flow and the carnivore comeback: Y-chromosomal patterns during range expansion in a recovering brown bear population <i>Alexander Kopatz</i>	Past and future distributions of Southeast Asian murine rodents: the influence of climate changes <i>Alice Latinne</i>	Estrous olfactory cues in domestic horse (<i>Equus ferus caballus</i> L., Perissodactyla, Equidae) <i>Raimondas Mozūraitis</i>
17.00 - 17.20	Can recolonizing apex predators reclaim their ecosystem function? <i>Marianne Pasanen-Mortensen</i>	Genetic patterns of a successful recolonization of the Eurasian otter in France <i>Johan Michaux</i>	Species patterns and trends from sparse occurrence data. The case of Mozambique's mammals <i>Isabel Queirós Neves</i>	Potential sources of pathogens for the Pallas cat in Daurian steppes, Russia <i>Ekaterina Pavlova</i>

18.00: Conference Reception at Stockholm City Hall

Free admission for all conference participants

Wednesday

9.00 - 10.00

Population Genetics Plenary: Jennifer Leonard

Ecology in the evolution of wolves

10.00 - 10.20

Petr Kotlik: Population replacement in British bank voles revealed by a large number of SNP markers

10.20 - 11.00

Coffee

11.00 - 11.20

Eline Lorenzen: Population genomics reveal recent speciation and rapid evolutionary adaptation in polar bears

11.20 - 11.40

Joost de Jong: Genetic structure of European wild boar – 35k SNP analysis

11.40 - 12.00

Pascale Chevret: Phylogeography, genetic structure and morphological evolution of the house mouse on the Orkney Archipelago

12.00 - 12.20

Naqariun Vijay: Genome-culture coevolution promotes rapid divergence in the killer whale

12.20 - 14.00

Lunch

	Population Genetics	Herbivory	Behaviour	Paleontology
14.00 - 14.20	The project Barcoding Fauna Bavarica: Why DNA barcoding is also useful for mammals <i>Oliver Hawlitschek</i>	Keynote: Kjell Danell Mammalian Herbivory in Boreal Forests - Challenges and Methodology	Keynote: Tim Clutton-Brock The evolution of cooperation and cooperative breeding	Keynote: Anjali Goswami The macroevolutionary consequences of phenotypic integration: from development to deep time
14.20-14.40	Fewer markers, similar accuracy? Cost-effective selection of genetic markers for parentage analysis based on noninvasive genetic sampling <i>Clara Mendes Ferreira</i>			
14.40 - 15.00	Landscape relatedness: Insights into contemporary spatial structure of a top predator <i>Anita Norman</i>	Patterns of habitat use and diet of European bison and moose in Europe <i>Emilia Hofman-Kaminska</i>	Territoriality and migration - implications on fitness in wild mice <i>Miriam Linnenbrink</i>	The colonisation history of Scandinavia presented through the subfossil finds along one of its major immigration routes; Scania, southern Sweden <i>Erika Rosengren</i>
15.00 - 15.20	Range-wide multilocus phylogeography of the red fox reveals ancient continental divergence, minimal genomic exchange, and distinct demographic history <i>Mark Statham</i>	Moose browsing patterns on young Scots pine with implications for forestry <i>Märtha Wallgren</i>	Energy-saving strategies and the pace-of-life syndrome in eastern chipmunks (<i>Tamias striatus</i>) <i>Melanie Dammhahn</i>	Marine mammal fauna of the Middle and Late Miocene of the Central and Eastern Paratethys: chronology and biogeography <i>Pavel Gol'din</i>
15.20 - 15.40	Evolutionary history and genetic structure of moose population in Europe <i>Magdalena Niedziałkowska</i>	Fire occurrence mediates small rodent seed removal in neotropical forested habitats <i>Emerson Monteiro Vieira</i>	Does sociability relate to personality? A comparison between four species of shrews <i>Sophie von Merten</i>	Cave lioness from the plain? Craniometric investigations on a Pleistocene lion skull from Hungary <i>Laszlo Bartosiewicz</i>

15.40 - 16.40

Coffee & Poster Session

	Population Genetics	Herbivory	Behaviour	Phylogeography
16.40 - 17.00	Signatures of selection in the genome and phenotype of the invading and expanding greater white-toothed shrew (<i>Crocidura russula</i>) in Ireland <i>Allan McDevitt</i>	Rewilding Europe's large grazer community: how functionally diverse are the diets of Europe's three largest mammalian herbivore species? <i>Joris Cromsigt</i>	Mate choice, hybridisation and hybrid fitness in two pine vole sister species (<i>Microtus duodecimcostatus</i> and <i>M. lusitanicus</i>) <i>Ana Cerveira</i>	Maintenance of contact zone between two bank vole phylogenetic lineages in NE Poland <i>Ewa Tarnowska</i>
17.00 - 17.20	Influence of mating system on patterns of sex-linked genetic diversity across pinniped species <i>Claire R. Peart</i>	Small scale foraging decisions in moose in relation to plant defence and spatial distribution <i>Ulrika A. Bergvall</i>	Can hyraxes sing the blues? Possible evidence for musical features in male rock hyrax (<i>Procapra capensis</i>) complex calls <i>Vlad Demartsev</i>	Extra-Mediterranean glacial refugia illuminated through the study of bats <i>Emma Boston</i>
17.20 - 17.40	Tracking genetic footprints to reconstruct geographic patterns of expansion in Fennoscandian red foxes <i>Karin Norén</i>	Widespread declines in ground lichens in northern Sweden: consequences for reindeer husbandry <i>Alessia Uboni</i>	Sperm competition in fluctuating populations of common voles in southern Europe: reversed relationship between relative testes size and density <i>Juan Jose Luque-Larena</i>	Internal structure of Balkan refugium using white breasted hedgehog (<i>Erinaceus roumanicus</i>) as model species <i>Barbora Cerna Bolfikova</i>
17.40 - 18.00	Combination of morphological, molecular and niche divergence to identify patterns of species delineation: a case with the fat dormouse along the Hyrcanians <i>Gholamreza Naderi</i>		The alarm call of the European ground squirrel (<i>Spermophilus citellus</i>): still quite unexplored field <i>Irena Schneiderová</i>	Evidence of post-glacial secondary contact and subsequent anthropogenic influence upon the genetic composition of Fennoscandian moose (<i>Alces alces</i>) <i>Veli-Matti Kangas</i>
18.00-18.20	Genome-wide analyses suggest parallel selection for ubiquitous functions may eclipse local adaptation in European wolf (<i>Canis lupus</i>) populations <i>Astrid Vik Stronen</i>			

Thursday

9.00 - 10.00

Conservation Biology Plenary: David Macdonald

Conserving big predators: case studies from the WildCRU

10.00 - 10.20

Rafal Kowalczyk: Why has the European bison survived, while the other large beasts have gone

10.20 - 11.00

Coffee

11.00 - 11.20

Øystein Flagstad: Genetic rescue in a severely inbred wolf population: A natural experiment

11.20 - 11.40

Chris Johnson: Top predators and ecological cascades over a continent: dingoes, devils and diversity in Australia

11.40 - 12.00

Søren Faurby: Historic and prehistoric human-driven extinctions have reshaped global mammal diversity patterns

12.00 - 12.20

Regina Lafuente: Hunters' attitudes towards the reintroduction of the critically endangered Iberian lynx (*Lynx pardinus*)

12.20 - 14.00

Lunch

	Conservation Biology	Predation	Ecology and Physiology	Evolution & Systematics
14.00 - 14.40		Keynote: Urs Breitenmoser Cats, deer, and hunters – experiences with lynx predation in Switzerland		Keynote: Selina Brace Evolutionary histories from mammals of the Caribbean: insights from ancient DNA
14.40 - 15.00	Status and conservation goals for the critically endangered Arctic fox in Scandinavia. When is the mission completed? <i>Nina E. Eide</i>	Changes in distribution ranges in wolf (<i>C. lupus</i>) in Poland during 1980-2014, and the impact of this species upon population of red deer (<i>C. elaphus</i>) <i>Boguslaw Bobek</i>	Magnetic alignment in mammals <i>Sabine Begall</i>	Patterns of between-population divergence in body size and neutral DNA markers of Anatolian ground squirrels (<i>Spermophilus xanthoprymnus</i>) <i>Hakan Gür</i>
15.00 - 15.20	Photo-ID as a tool for studying and monitoring the critically endangered Saimaa ringed seal population <i>Meeri Koivuniemi</i>	Patterns of reproduction result from age-related sensitivity to resources and reproductive costs in wolverines <i>Jens Persson</i>	Basking in the winter sun: thermoregulation in the Ethiopian hedgehog (<i>Paraechinus aethiopicus</i>) in Qatar <i>Nobuyuki Yamaguchi</i>	Natural selection in a common small mammal: evidence from molecular data and implications for phylogeographic inference <i>Jeremy Herman</i>
15.20 - 15.40	Hybridization and domestic introgression in the wild: The extinction of a natural arctic fox population <i>Øystein Flagstad</i>	Scent-marking in a stalking predator: Is there a trade-off between intra-specific communication and hunting behaviour in the Eurasian lynx (<i>Lynx lynx</i>)? <i>Kristina Vogt</i>	Life in the desert by reproductive and metabolic survival strategies of small mammals <i>Khammar Farida</i>	Population history and taxonomy of North African hares (genus <i>Lepus</i>) inferred from genetic variation <i>Sara Lado</i>

15.40 - 16.40

Coffee & Poster Session

	Conservation Biology	Predation	Domestication	Evolution & Systematics
16.40 - 17.00	The elusive Annamite striped rabbit (<i>Nesolagus timminsi</i>) <i>Sarah Woodfin</i>	The diet of the red fox (<i>Vulpes vulpes</i>) in Estonia and in Europe <i>Egle Soe</i>	Keynote: Greger Larson The process and the pattern of dog domestication	Genesis of the bat ectoparasite fauna of Siberia <i>Maria Orlova</i>
17.00 - 17.20	Direct effect of mechanical grass moving on small mammal population dynamics <i>Zbigniew Borowski</i>	The role bison sex and group size in wolf-bison interactions <i>Aimee Tallian</i>	 	Determination of taxonomic status of (<i>Mustela nivalis</i>) subspecies in Turkey <i>Sakir Onder Ozkurt</i>
17.20 - 17.40	How to prove that you loose! Management of alpine chamois (<i>Rupicapra rupicapra</i>) to the brink of extinction in Germany <i>Christine Miller</i>	Wolf (<i>Canis lupus</i> , L. 1758) diet and prey selection in the South-Eastern Carpathian Mountains, Romania <i>Teodora Sin</i>	Genetics of human-directed social behaviour in Beagles <i>Mia Persson</i>	Geographical variation in the sand cat (<i>Felis margarita</i>) <i>Andrew Kitchener</i>
17.40 - 18.00	Does the blood-sucking nematode (<i>Ashworthius sidemi</i>) cause deterioration of blood parameters in endangered European bison (<i>Bison bonasus</i>)? <i>Marta Kolodziej-Sobocinska</i>	Variation of predation pressure in a context of cyclic population outbreaks of grassland voles (<i>Arvicola scherman</i>) <i>Guillaume Halliez</i>	Genomics reveal the importance of gene flow and strong artificial selection during pig domestication <i>Laurent Frantz</i>	Fast evolutionary response of house mice to anthropogenic disturbance on a Sub-Antarctic island <i>Sabrina Renaud</i>
18.00-18.20	Unsuspecting immigrant or ecological threat: a long-term fieldwork study on the introduced raccoon in Germany <i>Berit Annika Michler</i>		Origins of the domestic dog: Out of Southern East Asia <i>Peter Savolainen</i>	Is monobrachial homology the end or the start of chromosomal speciation? Ellobius' case <i>Irina Bakloushinskaya</i>
18.20-18.40	Wolf recolonization of Denmark <i>Thomas Secher Jensen</i>		Genomic regions associated with selection for behavior in foxes (<i>Vulpes vulpes</i>) <i>Anna Kukekova</i>	Dynamic of chromosomal evolution in two parapatric Rb races of house mouse in the island of Madeira <i>Joaquim Tapisso</i>

Friday

9.00 - 10.00

Ecology & Landscapes Plenary: Henrik Andrén
Ecology and Landscapes - Species interactions in heterogeneous landscapes

10.00 - 10.20

Christina Skarpe: Herbivores and landscapes

10.20 - 11.00

Coffee

11.00 - 11.20

Russell Hill: Human observers modulate perceived landscapes of fear

11.20 - 11.40

Navinder Singh: Linking migratory tactics with reproduction in a large mammal

11.40 - 12.00

Cécile Vanpé: Individual multilocus heterozygosity at immune gene loci but not microsatellites influences roe deer natal dispersal

12.00 - 12.20

L. Scott Mills: Seasonal coat color and climate change in mammals: A global model system to understand adaptive rescue

12.20 - 14.00

Lunch

	Ecology & Landscapes	Disease & Parasites Chairman: Eva Kallio	Ancient DNA	Community Ecology
14.00 - 14.40		<u>Keynote: Heikki Henttonen</u> Eco-epidemiological research on rodent-borne pathogens	<u>Keynote: Ian Barnes</u> Genomic analyses of museum collections	<u>Keynote: Bodil Elmhaqen</u> Carnivore interactions and climate change: Top-down and bottom-up cascades in time and space
14.40 - 15.00	Camouflage mismatch in seasonal coat color due to decreased snow duration: Will snowshoe hares keep up with climate change? <i>Marketa Zimova</i>	Traits, predators and deer as determinants of tick burdens of rodents: implications for Lyme borreliosis risk <i>Tim Hofmeester</i>	Using ancient DNA to examine the postglacial consequences of range contractions in cold-adapted species <i>Vendela K. Lagerholm</i>	Invasive small mammals: trophic dynamism and modified food webs in Irish hedgerows <i>Ian Montgomery</i>
15.00 - 15.20	Monitoring small carnivore populations using citizen scientists <i>David Tosh</i>	Aleutian mink disease virus in free-ranging mustelids in Finland <i>Tarja Sironen</i>	Ancient dog genome provides insights into the evolutionary history of dogs <i>Laurent Frantz</i>	Species interactions of arctic fox on Bylot Island, Nunavut: hypothesis-testing at the meta-ecosystem scale <i>Dominique Berteaux</i>
15.20 - 15.40	Antiparasitic medication increases vole survival in fragmented habitat <i>Marko Haapakoski</i>	Individual variation in parasite burden in a population of semi-captive Asian elephants (<i>Elephas maximus</i>) <i>Carly Lynsdale</i>	Contrasting and congruent patterns of genetic structuring in two <i>Microtus</i> vole species in Poland using museum specimens <i>Joanna Stojak</i>	Ecological interactions and species coexistence in Iberian mesocarnivore communities <i>Pedro Monterroso</i>

15.40 - 16.40

Coffee & Poster Session

	Ecology & Landscapes	Disease & Parasites Chairman: Heikki Henttonen	Ancient DNA	Community Ecology
16.40 - 17.00	It's relative: Sex and resource heterogeneity influences the relationship between relatedness and home range overlap for a solitary predator <i>Malin Aronsson</i>	Endemic pathogen infections and bank vole fitness <i>Eva Kallio</i>	Unraveling the complexity of the Austronesian expansion and dispersal <i>Anna Linderholm</i>	Rapid turnover in micro- and macrobiome of free-ranging primates, rufous mouse lemur (<i>Microcebus rufus</i>) <i>Tuomas Aivelo</i>
17.00 - 17.20	Effects of hunting on foraging behavior and efficiency: Do bears trade off good forage for security? <i>Anne Hertel</i>	Herd-level bovine tuberculosis risk factors: assessing the role of low level badger population disturbance <i>Neil Reid</i>	Influence of environmental changes and human activities on late Quaternary red deer populations <i>Karolina Doan</i>	How unusual is the terrestrial mammal community of Barro Colorado Island? A Neotropical cross-forest comparison using camera traps <i>Frank van Langevelde</i>
17.20 - 17.40	Home range use by the European hare (<i>Lepus europaeus</i>) in an agricultural area with small fields analysed at a fine temporal scale <i>Stéphanie Schai-Braun</i>	Mining archival collections from shrews, moles and bats to gain insights into the spatial-temporal distribution and genetic diversity of hantaviruses <i>Richard Yanagihara</i>	Temporal genetic variation of the Saimaa ringed seal (<i>Phoca hispida saimensis</i>) in the 20th century <i>Matti Heino</i>	eMammal, a system for processing images from large-scale camera-trap surveys <i>Patrick Jansen</i>
17.40 - 18.00		City rats - an emerging threat to the public health <i>Åke Lundkvist</i>	The fall and rise of the Scandinavian brown bear <i>Erik Ersmark</i>	Analytical frontiers in analysing camera trap data <i>Marcus Rowcliffe</i>

19.00 Conference dinner