

Detailed Program

Wednesday, 26th February 2020

Registration		09:00-13:00
Workshop 1: Pamela Burger & Stefan Prost		11:00-13:00
Schmidt-Küntzel	Cheetah conservation genetics: origins and current applications	11:10-11:20
Prost	Conservation genomic analyses of African and Asiatic cheetahs (<i>Acinonyx jubatus</i>)	11:20-11:30
Magliolo	Validation of a Single Nucleotide Polymorphism marker set for forensic parentage verification in cheetah	11:30-11:40
Khalatbari	Assessing cheetah's population size, structure and diet in the central deserts of Iran with genetics	11:40-11:50
Maly	Determining genetic variability, kinship, and uniqueness in ex-situ cheetahs (<i>Acinonyx jubatus</i>) in North America	11:50-12:00
Czirják	The peculiar innate immune system of the cheetahs (<i>Acinonyx jubatus</i>)	12:00-12:20
Closed Session	For invited participants only	12:20-13:00
Welcome		13:00-13:30
Plenary I: Katerina Guschanski	Time travel for conservation: Using museum collections to inform conservation decisions	13:30-14:00
Session 1: Niko Balkenhol & Frank Zachos		14:00-16:00
Barratt	Long-term environmental stability, genomic diversity and demographic history of Pan-African chimpanzee populations	14:10-14:25
Brüniche-Olsen	Genomics and habitat reconstruction track climate-driven population dynamics in birds	14:25-14:40
Hepenstrick	Exploring the island biogeography of cryptogams on erratic boulders with a conservation genomic perspective	14:40-14:55
Traeger	Limited effects of woody overgrowth on genetic diversity and structure of <i>Primula veris</i> in semi-natural grasslands	14:55-15:10
Westekemper	Road density is the main driver of spatial genetic structure in European wildcats (<i>Felis silvestris</i>) across Germany	15:10-15:25
Geue	Landscape genomics as a useful tool for conservation prioritization: a multi-species study in Eastern Europe.	15:25-15:40
Bertola	Insights into the distribution of genetic diversity in the lion and implications for conservation	15:40-15:55
Coffee break		16:00-16:30
Session 2: Katerina Guschanski & Elisabeth Haring		16:30-18:00
von Seth	Sumatran rhinoceros genomes reveal the conservation implications of differential mutational load among the world's last remaining populations	16:40-16:55
Schulte	<i>Larix</i> chloroplast genomes assembled from sedimentary ancient DNA reveal past changes of Siberian forests	16:55-17:10

Lado	Detecting ancient dromedary-Bactrian and recent domestic-wild camel hybridization using shotgun sequencing	17:10-17:25
Open discussion		17:25-17:45
Free time	Hotel check-in and free visit to the Senckenberg museum	18:00-20:00
Icebreaker	in the museum (exhibition: fascination of diversity)	20:00-22:00

Thursday, 27th February 2020

Plenary II: Rob Ogden	Wildlife DNA Forensics – from genetics to genomics on the front line of conservation	09:00-09:30
Session 3: Rob Ogden & Stefan Prost	Molecular Wildlife Forensics	09:30-11:00
Pietsch	The African Wildlife Forensics Network (AWFN) – Challenges, experiences and opportunities of capacity building in wildlife forensics in Africa	09:40-09:55
Thakur	Using genetics and wildlife forensics in conservation of threatened vertebrates in the Indian Himalayan Region	09:55-10:10
Vasiljevic	Developmental validation protocol for species identification using the MinION nanopore sequencer	10:10-10:25
Morf	Animal forensics at the Institute of Forensic Medicine Zurich	10:25-10:40
Open discussion		10:40-11:00
Coffee break		11:00-11:30
Session 4: Klaus-Peter Koepfli & Sarah Mueller	Reintroduction and Captive Breeding Genetics	11:30-13:30
Loercher	Low genetic diversity and its consequences for the Alpine bearded vulture reintroduction project	11:40-11:55
Mueller	Genome wide evaluation of reintroduced Eurasian lynx populations in Central Europe	11:55-12:10
Koepfli	Genomic impact of founder history on ex situ populations of the critically endangered dama gazelle (<i>Nanger dama</i>)	12:10-12:25
Humble	Conservation genomics of scimitar-horned oryx: implications for future management	12:25-12:40
Biebach	Using genomics to inform genetic restoration of reintroduced populations	12:40-12:55
Grossen	Purging of highly deleterious mutations through severe bottlenecks in Alpine ibex	12:55-13:10
Frandsen	Targeted conservation genetics of the endangered chimpanzee	13:10-13:25
Lunch break		13:30-15:00
Session 5: Carsten Nowak & Alina von Thaden	Genomic Wildlife Monitoring	15:00-17:00
Sharma	Monitoring Himalayan brown bear (<i>Ursus arctos isabellinus</i>) population by high-throughput noninvasive genotyping	15:10-15:25
Nowak	Reduced SNP panels allow for targeted genomic wildlife monitoring based on non-invasive sampling	15:25-15:40
Smith	What can genomic dietary analysis tell us about conflicts between conservation priorities and livestock herding practices?	15:40-15:55

Elbrecht	The Mobile Biodiversity Lab – DNA based ecosystem assessment in a backpack	15:55-16:10
Watsa	Portable sequencing for biomonitoring and capacity building in the Peruvian Amazon	16:10-16:25
Fischer	Genetic diversity monitoring: a feasibility study in Switzerland	16:25-16:40
Open discussion		16:40-17:00
Coffee break		17:00-17:30
Session X:	Disease and Functional Genomics	17:30-18:30
Hohenlohe	The devils' cancer: conservation genomics, rapid evolution, and adaptive potential in the face of a unique disease	17:40-17:55
Lyons	Whole genome and whole exome sequencing for felid conservation management	17:55-18:10
Muñoz-Fuentes	The International Mouse Phenotyping Consortium (IMPC): a functional catalogue of mammalian genes that informs wild species research	18:10-18:25
Poster session		18:30-20:00
Conference dinner	in the museum	20:00-00:00

Friday, 28th February 2020

Plenary III: Laura Epp	Tracking the history of species and ecosystems with environmental DNA	09:00-09:30
Session 6: Miklós Bálint & Florian Leese	eDNA and Genomic Community Assessment	09:30-11:00
Sander	An eDNA metabarcoding time series reveals high macroinvertebrate diversity and seasonal patterns in the Kinzig (Rhine-Main-Observatory)	09:30-09:45
Brasseur	Assessment of the macroinvertebrate community of the Vjosa river through non-destructive DNA-metabarcoding of preservative ethanol	09:45-10:00
Querejeta	The diet of the endangered Westland petrel: a DNA metabarcoding approach	10:00-10:15
Hartmann	The application of e-DNA methods for amphibian monitoring in a large scale ecological impact assessment	10:15-10:30
Kusanke	eDNA Monitoring of the endangered European Weather Loach (<i>M. fossilis</i>)	10:30-10:45
Martinez Arbizu	How 2bRad can help us to understand genetic connectivity and speciation in the oceans	10:45-11:00
Wrapping-up & Goodbye		11:00-11:30
Coffee break	For workshop 2	11:30-12:00
Workshop 2: Rolf Holderegger & Gernot Segelbacher	Policy, Society and Outreach	12:00-14:00
Pärli	Developing a genetic diversity monitoring program - What do the stakeholders say?	
Lunch break	For workshop 2	14:00-15:30
Workshop 3: Carsten Nowak, Stefan Prost, Alina von Thaden	At BikF auditorium	11:30-15:00
Tours	Botanical Garden or Frankfurt City tour	15:30-17:30