



# ICP2026 Conference Program

## Tuesday June 23

- 9:00-10:00 **Plenary Talk: Ian Barnes**
- 10:00-10:15 **Mattias Jakobsson:** The unique genomics of ancient southern Africans
- 10:15-11:00 **Coffee break (45 min)**
- 11:00-11:15 **Patrícia Santos:** De novo assembly of ancient metagenomic data from dental calculus to disentangle the Neolithic transition in Southern Europe
- 11:15-11:30 **Michael Westbury:** Evolutionary history and genomic vulnerability of the extinct giant deer *Megaloceros giganteus*
- 11:30-11:45 **Bianca De Sanctis:** The ancient subglacial precipitate microbiome
- 11:45-12:00 **Daniel Wegmann:** Accurate genotype likelihoods for ancient DNA
- 12:00-13:30 **Lunch break (90 min)**

### Human evolution

#### Keynote Talk: Cristina Valdiosera

- Kristiina Tambets:** Population structure revealed by ancient DNA: comparison of rural and urban communities of Medieval Estonia
- Mario Apata:** Paleogenomic and functional insights into human adaptation to toxic metals in the Andes
- Jiaqi Yang:** Contact with archaic humans and Paleolithic origins of East Asians
- Javier Serrano:** The impact of isolation on ancient North African islanders
- Ricardo Rodríguez Varela:** Conflict and Convergence: The Archaeogenetic legacy of Medieval Islamic Iberia
- Corey Alwell:** Population size dynamics through the European Later Stone Age

#### (30 min) Coffee Break

- Kendra Sirak:** A paleogenomic history of Colombia's eastern highlands
- Simon Fishilevich:** Uncovering the role of regulatory variants in human evolution
- Emrah Kırdök:** Metagenomic reconstruction of ancient oral microbiota from dental calculus: Preliminary results from 13th c. Niceae dental calculus samples
- Nikola Vukovic:** Local hunter-gatherer legacies in Neolithic Iberian genomes (4300–1700 yrs BCE)
- Dan Ju:** Ancient genomes uncover the spatiotemporal dynamics of adaptive evolution in Neolithic East Asia
- Martina Guli:** Archaic introgression in pre-European contact Americas
- Maxime Brami:** Lepenski Vir revisited. Exploring site-level interactions between farmers and foragers
- Mateja Hajdinjak:** Genomes of late Neanderthals

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Poster mingle (90 min)

### Museomics

#### Keynote Talk: Katerina Guschanski

- Paula Campos:** Historic overexploitation, genetic erosion & local extinction: Palaeogenomic insights into the decline of *Eubalaena glacialis* in NE Atlantic
- Jeon Myeongjune:** Molecular dissection of century-scale flowering adaptation using historical plant genomes *glacialis* in Northeast Atlantic
- Nic Rawlence:** Ancient DNA unveils the evolutionary history and palaeoecology of the extinct *mātuhituhi* bush wren
- Markella Moraitou:** Studying the evolution of the oral microbiome of wild mammals using dental calculus metagenomics
- Miriam Bravo:** Genomic reconstruction of pathogens from modern and historical Chimpanzees of Gombe, Tanzania
- Patricia Lang:** Tracking molecular mechanisms of plant adaptation to climate change with herbaria

#### Coffee Break (30 min)

- Michael Mitschke:** Signals of hybridization between commercial and wild bumblebees revealed by museum genomics
- Sarah Saadain:** A pest's path to perfection: Genomic evolution of the German cockroach across 150 Years
- John Richards:** Museum specimens characterize natural repertoire of antimicrobial resistance in wildlife and reveal human impact of antibiotic use
- Marc Friedländer:** Historical RNA expression profiles from the extinct Tasmanian tiger
- Mary Lucas:** Exploring ancient DNA preservation in archaeological museum materials
- Robert Kofler:** Are humans driving widespread invasions of intragenomic parasites in insects?
- Sadbh Carrick:** Ancient DNA of medieval manuscripts
- Enrico Bazzicalupo:** Understanding the history of herring periods (Sillperioder) on the west coast of Sweden: a temporal genomics approach



# ICP2026 Conference Program

## Wednesday June 24

- 9:00-10:00 **Plenary Talk: Johannes Krause**
- 10:00-10:15 **Benjamin Vernot:** The dirt on sediment DNA: Where does it really come from?
- 10:15-11:00 **Coffee break (45 min)**
- 11:00-11:15 **Amanda Lindahl:** Let's talk about sex... ratios in the fossil record of rodents
- 11:15-11:30 **Amy Holguin:** Unlocking archives: Evaluating the preservation of ancient DNA in archival waterlogged archaeobotanical assemblages
- 11:30-11:45 **Gabriel Renaud:** Alignment of aDNA fragments to panmitogenomes and inference of hominin sources for low-coverage data
- 11:45-12:00 **Selina Brace:** Beachy Head Woman: clarifying her origins using a multiproxy anthropological and biomolecular approach
- 12:00-13:30 **Lunch break (90 min)**

### Wild animals & plants

#### Keynote Talk: He Yu

**Molly Cassatt-johnstone:** Paleogenomics reveals arctic range and aquatic specialization in the American "cheetah", *Miracinonyx trumani*

**Sina Baleka:** Mid-Pleistocene ground squirrel palaeofeces shed light on North American mammoth migration

**Dave Stanton:** The Lost Kingdom: Palaeogenomics of the cave lion

**Deon De Jager:** Palaeogenomic insights into late Quaternary African faunas

**Pascale Lubbe:** Titans of the skies: Accipitrid palaeogenomes provide insight into rapid island gigantism

**Christoph Schwörer:** Extracting ancient DNA from plant macrofossils across the European Alps to reconstruct postglacial population dynamics

#### (30 min) Coffee Break

**Xenia Wietlisbach:** Ancient genomes from Alpine caves shed light on past ibex populations and the impact of a major anthropogenic bottleneck

**Alexandre Gilardet:** Yak X: an archaic bovine from Denisova Cave

**Eline Lorenzen:** Four centuries of commercial whaling eroded 11,000 years of population stability in bowhead whales

**Patrick Arnold:** Parapatric speciation in extinct Late Pleistocene rhinos

**Mateusz Baca:** Ancient and modern vole genomes hint at the reorganization of small mammal communities triggered by the Last Interglacial Period

**Ioana Meleg:** Tracing cave bear population turnovers and east-west expansion through ancient genomes

**Shu-Jin Luo:** The Japanese archipelago sheltered cave lions, not tigers, during the Late Pleistocene

**Scott Cocker:** A rodent's view of Middle Pleistocene Beringia

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### Pathogens & microbiomes

#### Keynote Talk: Lucy van Dorp

**Zoé Pochon:** Deep-time *Leptospira* and *Borrelia* in Eurasian water voles revealed by ancient metagenomics

**Sierra Blunt:** Ancient oral microbiomes from present-day France reveal an expanding picture of past health and lifestyles during 17,000 years of prehistory

**Matti Heino:** Ancient genomes illuminate the evolutionary history of Merkel cell polyomavirus

**Davide Bozzi:** Ancient *Treponema pallidum* genomes reveal phylogenetic diversity and lineage persistence through time in South American populations

**Vincent Thygesen:** Characterization of the ancient human oral microbiota recovered from teeth

**Arve Lee Willingham Grijalba:** Investigating past human mobility and Interactions through Phylogenomics of ancient commensal microbes.

#### Coffee Break (30 min)

**Gabriel Yaxal Ponce Soto:** High-res oral microbiome analyses by mapping metagenomic data on a new curated genomic database of oral microbes

**Toni De Dios Martínez:** Co-infection of *Yersinia pestis* and other zoonoses during Italian prehistory

**Maria Lopopolo:** Clade-specific evolutionary rates and regional diversity in *Mycobacterium lepromatosis* across regions and times

**Louis L'Hôte:** Reconstructing 3,500 Years of sheeppox virus evolution using archaeological and codicological genomes

**Daniel Anton Myburgh:** Tracing the pre-antibiotic osteomyelitis pathogens behind today's hospital superbug epidemics

**Hernán Burbano:** Historical genomes reveal a centuries-long competition-colonization trade-off in *Pseudomonas*

**Irina Velsko:** Leveraging ancient metagenome-assembled genomes to understand pathogenicity evolution in microbiome species

**Ravneet Sidhu:** Studying disease amidst the expansion of Medieval and Early modern plague networks in Anatolia

Poster mingle (90 min)



# ICP2026 Conference Program

## Thursday June 25

- 9:00-10:00 **Plenary Talk: Christina Warinner**
- 10:00-10:15 **Mehmet Somel:** Residence patterns in the earliest sedentary societies
- 10:15-11:00 **Coffee break (45 min)**
- 11:00-11:15 **Kaaviya Balakrishnan:** Natural or Neolithic? Re-evaluating the origins of the Orkney vole
- 11:15-11:30 **Jan Laine:** Ancient stickleback genomes reveal the temporal dynamics of parallel adaptation
- 11:30-11:45 **Vanessa Paynter:** SmallRNA preservation in >41000 year old permafrost: Evidence from a Pleistocene moth
- 11:45-12:00 **Yuejiao Huang:** Tracing the evolutionary history of Epstein-Barr Virus using modern and ancient genomes
- 12:00-13:30 **Lunch break (90 min)**

### Novel approaches

#### Keynote Talk: Richard E Green

**Emilio Mármol Sánchez:** Ancient RNA expression profiles from the extinct woolly mammoth

**Michelle Hämmerle:** The world's highest ritual sacrifice: A long journey and severe health stress revealed through non-invasive mummy sampling.

**Hannah Moots:** Palaeogenomic insights into Mammoth herd structure, anthropogenic bone accumulation sites & Late Pleistocene hunting strategies

**Anna White:** Ancient DNA from birch tar artefacts: insights into population structure and gendered practices in Neolithic Alpine Europe

**Miriam Ibáñez:** NEWINDS of Time: Decoding past environments through ancient eDNA.

**Ryan Sinclair Paterson:** Beyond palaeogenomics: benchmarking the survival and authenticity of Pre-Holocene enamel proteomes

#### (30 min) Coffee Break

**Emily Johana Ruiz Puerta:** Archaeogenomic reconstruction of ancient elephant ivory trade

**Cassandra Theresa Mitchell:** Quantifying sequencing methods to access unattainable epigenetic information

**Chen Leibson:** Detecting DNA methylation changes separating humans from nonhuman African apes

**Anjali Muthukrishnan:** ZooMS protocols for optimized taxonomic identification of fossils from a submerged cave system

**Daniella Grant:** Checkpoint assays and sample-specific optimizations for improved ancient DNA recovery

**Alexia Mazzini:** Millennia of evolution and adaptation between Mediterranean human coastal populations and Atlantic bluefin tuna

**Kritika Garg:** Should we re-wild the white tiger?

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### Computational methods

#### Keynote Talk: Pontus Skoglund

**Elena Zavala:** Sedimix: A workflow for the analysis of hominin nuclear DNA sequences from sediments

**Youssef Tawfik:** Developing a human ancient epigenetic clock: promises and limitations

**Muhammed Siddik Kilic:** Estimating genetic kinship in admixed populations from low-coverage genomes

**Surabhi Ranavat:** ADAPT: An Ancient DNA Analysis Pipeline for plants

**Cormac Kinsella:** Graph variant explorer, a workflow for identifying structural variants in ancient DNA reads

**Nikolay Oskolkov:** Improving taxonomic inference from ancient environmental metagenomes by masking microbial-like regions in reference genomes

#### Coffee Break (30 min)

**Linda Ongaro:** Optimising imputation and IBD segments retrieval in ancient genomes

**Sharon Ori:** A dimensionality reduction algorithm for genetic data

**Mathias Currat:** Unravelling spatio-temporal admixture dynamics in the Neolithic using spatially explicit Paleogenomic simulations

**Yuan Pan:** Genomic approaches for *Betula* species delimitation in ancient sedimentary DNA

**Dilek Koptekin:** IBDemography: A workflow for interpreting identity-by-descent sharing patterns through demographic simulations

**Georgia Mies:** Assessing biases in local ancestry inference of imputed ancient DNA

**Matthew Collins:** Time to rethink the analysis of ancient collagen?

**Dániel Gerber:** Genomic composition of Migration Period horses in the Carpathian Basin

19:00-21:00

**Conference Dinner at Stockholm City Hall**

Hosted and sponsored by the City of Stockholm



# ICP2026 Conference Program

## Friday June 26

- 9:00-10:00 **Plenary Talk: Beth Shapiro**
- 10:00-10:15 **Benjamin Guinet:** Ancient host-associated microbes obtained from mammoth remains
- 10:15-11:00 **Coffee break (45 min)**
- 11:00-11:15 **Marina Silva:** Genomic history and selection in Roman and early medieval Britain
- 11:15-11:30 **Gold Sponsor presentation: Illumina**
- 11:30-12:00 **General Remarks and Prize Awards**
- 12:00-13:30 **Lunch break (90 min)**

### Sedimentary aDNA

#### Keynote Talk: Mikkel Winther Pedersen

**Pere Gelabert:** Genetic admixture between East and West European Gravettian-associated populations in Western Europe before the LGM

**Mateu Menendez Serra:** Marine ecosystem change in relation to climate conditions in the North Atlantic over the last 600,000 years

**Juliane Romahn:** Not One Story: Divergent phytoplankton responses through 7,000 years of the Baltic Sea

**Weihan Jia:** High-latitude plant community assembly varied with Late Quaternary glacial-interglacial cycle strength

**Elisa Davis:** Advancing detection of rare vertebrate lineages in Southern Ocean sedaDNA through integrated bioinformatic frameworks

**Niall Cooke:** Sedimentary ancient human nuclear DNA from open-air Holocene archaeological sites in Europe

#### (30 min) Coffee Break

**Antony Brown:** MEMELANDS: Towards a molecular ecology of Medieval European landscapes

**Flore Wijnands:** Reconstructing late Holocene ecosystem change in the southern Arctic Ocean using sedimentary ancient DNA

**Luke Earl Holman:** Century-scale ecosystem change along the Western Antarctic Peninsula

**Giulia Zampirolo:** 100 metagenomes link stabilisation of the marine environment to a bloom in prehistoric forager societies in Aarhus Bay

**Jamie Alumbaugh:** Tracking muskoxen in northern Greenland using sedimentary ancient DNA

**Ciara Wanket:** Central Beringian critters: Late Pleistocene faunal communities of the Bering land bridge

**Siobhan Evans:** SedaDNA down under: recovering ancient DNA from Australian cave sediments

**Robin Allaby:** The potential of early colonization and northern refugia in Doggerland

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### Domestic animals & plants

#### Keynote Talk: Victoria Mullin

**Lachie Scarsbrook:** Two centuries of historical genomes reveal the consequences of closed breeding in purebred dogs

**Alex Siekmann:** Comet: Investigating the genome of the first 1,000 guineas bull

**Xinmeng Liu:** Cattle at the crossroads: ancient cattle genomes reveal human interactions across South, East and Southeast Asia and early gaur management

**Jenny Hagenblad:** Ancient seeds reveal millennia of agriculture on the Canary Islands

**Eva-Maria Geigl:** Paleogenomics sheds light on the principal biological mechanisms that determined the long domestication process of the cat

**Kevin Daly:** Livestock on the margins: maximizing what can be learned from poorly preserved ancient specimens.

#### Coffee Break (30 min)

**Clara Isabel Díaz-Pérez:** Paleogenomic data evidence the origin and demographic history of ancient goats from the Canary Islands

**Shuya Zhang:** The evolution and spread of Andean maize revealed through archaeogenomics

**Thierry Grange:** Wild vs domesticates: A paleogenomics perspective on the evolution of the Bovina

**Xueyuan Liang:** A 5,000-year-old water buffalo genome reveals the involvement of extinct wild *B. mephistopheles* in swamp buffalo domestication

**Valentina Rovelli:** Tracing the genomic history of domestic cats in North Africa and Southwest Asia

**Pedro Morell Miranda:** Describing early domestic genetic diversity using ancient sheep genomes from Asikli Höyük, in Central Anatolia.

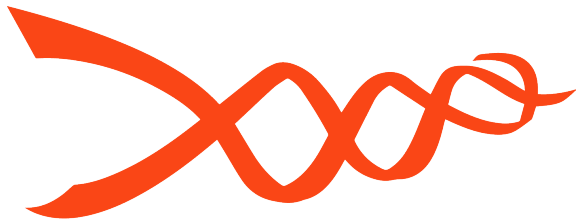
**Jolijn Erven:** When pathways constrict: A Neolithic bottleneck in caprine dispersal to Iberia



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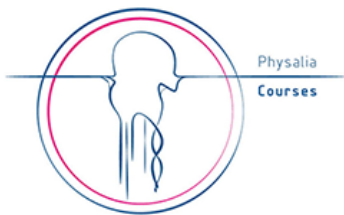
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