



# 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

The Life Behind the Bone: The Genetic Imprint of Choice, Chance & Social Divide

**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

**Javier 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(Parkinson):** A paleogenomic history of Colombia's eastern highlands

**David Gokhman:** Uncovering the Role of Regulatory Variants in Human Evolution

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

**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 Gulli:** Archaic introgression in pre-European contact Americas

**Rui Qiao:** Ancient Genomes Inform Social Complexity and Kinship Transformation in Neolithic Asia

**Maxime Brami:** Lepenski Vir revisited. Exploring site-level interactions between farmers and foragers

#### 18:00-19:30 **Poster mingle (90 min)**

### Museomics

#### Keynote Talk: Katerina Guschanski

Beyond skins and skulls: Temporal metagenomics from museum collections

14:00-14:15 **Paula Campos:** Historic overexploitation, genetic erosion & local extinction: Palaeogenomic Insights into the Decline of *Eubalaena glacialis* in NE Atlantic

14:15-14:30 **Jeon Myeongjune:** Molecular dissection of century-scale flowering adaptation using historical plant genomes *glacialis* in Northeast Atlantic

14:30-14:45 **Nic Rawlence:** Ancient DNA unveils the evolutionary history and palaeoecology of the extinct *mātuhituhi* bush wren

14:45-15:00 **Markella Moraitou:** Studying the evolution of the oral microbiome of wild mammals using dental calculus metagenomics

15:00-15:15 **Miriam Bravo:** Genomic reconstruction of pathogens from modern and historical Chimpanzees of Gombe, Tanzania

15:15-15:30 **Patricia Lang:** Tracking molecular mechanisms of plant adaptation to climate change with herbaria

#### Coffee Break (30 min)

16:00-16:15 **Michael Mitschke:** Signals of hybridization between commercial and wild bumblebees revealed by museum genomics

16:15-16:30 **Sarah Saadain:** A Pest's Path to Perfection: Genomic Evolution of the German Cockroach Across 150 Years

16:30-16:45 **John Richards:** Museum specimens characterize natural repertoire of antimicrobial resistance in wildlife and reveal human impact of antibiotic use

16:45-17:00 **Marc Friedländer:** Historical RNA expression profiles from the extinct Tasmanian tiger

17:00-17:15 **Mary Lucas:** Exploring ancient DNA preservation in archaeological museum materials

17:15-17:30 **Robert Kofler:** Are humans driving widespread invasions of intragenomic parasites in insects?

17:30-17:45 **Sadh Carrick:** Ancient DNA of medieval manuscripts

17:45-18:00 **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 **Vernot Benjamin:** 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

18:00-19:30 **Poster mingle (90 min)**

### Pathogens & microbiomes

#### Keynote Talk: Lucy van Dorp

13:30-14:00

14:00-14:15 **Zoé Pochon:** Deep-time *Leptospira* and *Borrelia* in Eurasian water voles revealed by ancient metagenomics

14:15-14:30 **Sierra Blunt:** Ancient oral microbiomes from present-day France reveal an expanding picture of past health and lifestyles during 17,000 years of prehistory

14:30-14:45 **Matti Heino:** Ancient genomes illuminate the evolutionary history of Merkel cell polyomavirus

14:45-15:00 **Davide Bozzi:** Ancient *Treponema pallidum* genomes reveal phylogenetic diversity and lineage persistence through time in South American populations

15:00-15:15 **Vincent Thygesen:** Characterization of the ancient human oral microbiota recovered from teeth

15:15-15:30 **Arve Lee Willingham Grijalba:** Investigating Past Human Mobility and Interactions through Phylogenomics of Ancient Commensal Microbes.

15:30-16:00

#### Coffee Break (30 min)

16:00-16:15 **Gabriel Yaxal Ponce Soto:** High-res oral microbiome analyses by mapping metagenomic data on a new curated genomic database of oral microbes

16:15-16:30 **Toni De Dios Martínez:** Co-infection of *Yersinia pestis* and other zoonoses during Italian prehistory

16:30-16:45 **Maria Lopopolo:** Clade-specific evolutionary rates and regional diversity in *Mycobacterium lepromatosis* across regions and times

16:45-17:00 **Louis L'Hôte:** Reconstructing 3,500 Years of Sheeppox Virus Evolution Using archaeological and codicological genomes

17:00-17:15 **Daniel Anton Myburgh:** Tracing the pre-antibiotic osteomyelitis pathogens behind today's hospital superbug epidemics

17:15-17:30 **Hernán Burbano:** Historical Genomes Reveal a Centuries-Long Competition-Colonization Trade-off in *Pseudomonas*

17:30-17:45 **Irina Velsko:** Leveraging ancient metagenome-assembled genomes to understand pathogenicity evolution in microbiome species

17:45-18:00 **Emrah Kirdök:** Metagenomic reconstruction of ancient oral microbiota from dental calculus: Preliminary results from 13th century Niceae dental calculus samples



# 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 Forensics in the Genomics Era

**Karpinski Emil:** Rational and AI-guided Enzyme Design for Ancient DNA Extraction

**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.

#### (30 min) Coffee Break

**Ryan Sinclair Paterson:** Beyond palaeogenomics: benchmarking the Survival and Authenticity of Pre-Holocene Enamel Proteomes

**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

### Computational methods

#### Keynote Talk: Pontus Skoglund Ancient human genomics: high resolution approaches

**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?

19:00-21:00 **Conference Dinner at Stockholm City Hall**



# 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**
- 11:30-12:00 **General Remarks and Prize Awards**
- 12:00-13:30 **Lunch break (90 min)**

### Sedimentary aDNA

#### Keynote Talk: Mikkel Winther Pedersen

Ancient Environmental Genomics: A Geneticists Window into Past Ecosystems

**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

**Jamie Alumbaugh:** Tracking Muskoxen in Northern Greenland using Sedimentary Ancient DNA

**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

**Juliane Romahn:** Not One Story: Divergent Phytoplankton Responses Through 7,000 Years of the Baltic Sea

**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

**Scarsbrook Lachie:** 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

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

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

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

#### 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.

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

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