

**Human Evolution
30 October – 1 November 2019**

**Wellcome Genome Campus,
Hinxton, Cambridge, UK**

Conference Programme

Wednesday, 30 October

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|-------------|---|
| 11:30-12:45 | Registration with lunch |
| 12:45-13:00 | Welcome and Introductions
<i>Michael Westaway and Yali Xue</i> |
| 13:00-14:00 | Keynote Lecture:
A change of climate: the impact of recent research on our understanding of human evolution
<i>Robert Foley</i>
<i>University of Cambridge, UK</i> |
| 14:00-15:30 | Session 1: Inferring human demography from genomic data
<i>Chair: Lluís Quintana-Murci</i> |
| | 14:00 Walking backwards into the future: The evolution of Pacific genomes and the implications for the health of Pacific peoples
<i>Lisa Matisoo-Smith</i>
<i>University of Otago, New Zealand</i> |
| | 14:30 Genomic Evolution and Adaptation in Africa
<i>Sarah Tishkoff</i>
<i>University of Pennsylvania, USA</i> |
| | 15:00 The genomic history of Near and Remote Oceania
<i>Jeremy Choin</i>
<i>Institut Pasteur, France</i> |
| | 15:15 Generation time differences among non-African human populations inferred from sizes of introgressed archaic fragments and accumulation and spectrum of new mutations
<i>Moisés Coll Macià</i>
<i>BiRC, Aarhus University, Denmark</i> |
| 15:30-16:00 | Afternoon Tea |

16:00-17:30

Session 2: Ancient and modern genetic admixture

Chair: Yali Xue

- 16:00 Exploring admixture and ancestry using genome-wide DNA
Garret Hellenthal
University College London, UK
- 16:30 Ancient DNA and the evolution of complex traits
Iain Mathieson
University of Pennsylvania, USA
- 17:00 Recovering signals of ghost archaic introgression in African populations
Arun Durvasula
UCLA, USA
- 17:15 Reconstructing spatio-temporal patterns of admixture in human history using present-day and ancient genomes
Manjusha Chintalapati
UC, Berkeley, USA

17:30-18:00

Lightning Talks

18:00-19:30

Poster Session I (odd numbers) with drinks reception

19:30

Buffet Dinner

19:30

Cash Bar

Thursday, 31 October

09:00-10:30

Session 3: Searching for signals of local adaptation

Chair: Lluís Quintana-Murci

- 09:00 Excavating archaic hominin DNA from the genomes of modern humans
Joshua Akey
Lewis-Sigler Institute for Integrative Genomics, USA
- 09:30 Toward a genetic and molecular dissection of Tibetan adaptations to hypoxia
Anna Di Rienzo
University of Chicago, USA
- 10:00 Investigating human-pathogen evolution using ancient genomics and proteomics
Christiana Scheib
University of Tartu, Estonia

10:15 Direct Identification of Neanderthal Introgressed Genetic Variation Affecting Gene Expression in Modern Human Immune Cell Lines
Evelyn Jagoda
Harvard University, USA

10:30-11:00

Morning Coffee

11:00-12:30

Session 4: Insights from paleoanthropology

Chair: Michael Westaway

11:00 Stasis and Innovation in the evolution of human and non-human primate technology
Susana Carvalho
University of Oxford, UK

11:30 Hominin variability in the Middle to Late Pleistocene Asia. New fossils and evolutionary interpretations
Maria Martinon Torres
CENIEH, Spain

12:00 Human Evolution during the Middle Pleistocene in Eurasia
Chris Stringer
Natural History Museum, UK

12:15 The nature of Neanderthal introgression revealed by 27,566 Icelandic genomes
Laurits Skov
Max Planck institute for evolutionary anthropology, Germany

12:30-14:00

Lunch

14:00-15:30

Session 5: Insights from Chronology

Chair: Marta Mirazon Lahr

14:00 Direct dating of human fossils and the ever changing story of human evolution
Rainer Grün
Griffith University, Australia

14:30 Timing is everything;
Narrowing the gulf between the physical and genetic evidence for human dispersal in Asia
Kira Westaway
Macquarie University, Australia

15:00 A 12,000-year Genetic History of Rome and the Italian Peninsula
Hannah Moots
Stanford University, USA

15:15 Sedimentary DNA Analysis from FAY-NE1 Jebel Faya, UAE
Simon Underdown
Oxford Brookes University, UK

15:30-16:00

Afternoon Tea

16:00-17:30

Session 6: Languages, culture and history

Chair: Michael Westaway

16:00 Layers of history and layers of evidence: genes, languages and complex histories in the Pacific

Russell Gray

Max Planck Institute for the Science of Human History, Germany

16:30 What language tells is about a possible evolutionary trade-off between olfaction and vision

Asifa Majid

The University of York, UK

17:00 Genomic structure of Siberians and the expansion of Altaic languages

Oleg Balanovsky

Vavilov Institute of Genetics, Russia

17:15 The genetic landscape of North African human populations

David Comas

Universitat Pompeu Fabra, Spain

17:30-18:00

Lightning Talks

18:00-19:30

Poster Session 2 (even numbers) with drinks reception

19:30

Silver Service Conference Dinner

19:30

Cash Bar

Friday, 1 November

09:00-10:30

Session 7: Human diversity and dispersals

Chair: Marta Mirazon Lahr

09:00 The genetic history of Africa based on modern and ancient DNA

Carina Schlebusch

Uppsala University, Sweden

09:30 The Implications of New Discoveries in Southeast Asia and Sahul for the Out of Africa Story

Chris Clarkson

University of Queensland, Australia

10:00 Population Structure, Stratification and Introgression of Human Structural Variation

Mohamed Almarri

Wellcome Sanger Institute, UK

10.15 Ancestry-related assortative mating and sex bias driven by social stratification in admixing American populations
Alex Mas-Sandoval
Imperial College of London, UK

10:30-11:00

Morning Coffee

11:00-12:00

Keynote Lecture:

Human evolutionary studies: technical triumphs, current challenges and future choices

Chris Tyler Smith

Wellcome Sanger Institute, UK

12:00-12:15

Closing remarks

Marta Mirazon Lahr and Lluís Quintana-Murci

12:15-12:30

Lunch

12:30

Coaches depart to Stansted Airport via Heathrow Airport

12:45

Coaches depart to Cambridge City Centre and Train Station