



September 26<sup>th</sup>, 2024

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9:30-11:30 **Session 1 – Introduction to Palaeoproteomics**

Chair: Zandra Fagerhäls

*Invited talk:*

**Samantha Brown**, University of Tübingen - ZooMS (Zooarchaeology by Mass Spectrometry): 15 years of peptide mass fingerprinting the past

*Invited talk:*

**Beatrice Demarchi**, University of Turin - Shotgun proteomics - not quite bulletproof!

*Invited talk:*

**Jessica Hendy**, University of York - Applications of palaeoproteomics

*Invited talk:*

**Matthew Collins**, University of Copenhagen/University of Cambridge - The future of palaeoproteomics

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12:30-13:15 **Session 2 – Extraction methods**

Chair: Jan Dekker

**Jakob Hansen** - A comparative study of commercially available, minimally invasive, sampling methods on Early Neolithic humeri analysed via palaeoproteomics

**Ilaria Serafini** - A new approach for single extraction of dyes and proteins of archaeological keratin-based textiles: method development and its application to charred mock-ups

**Zandra Fagerhäls** - Improving analysis of Pleistocene bone proteomes through consecutive digestion with multiple proteases

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### 13:30-14:50 **Session 3 – Bioinformatics**

Chair: TBA

#### *TAG-team:*

**Guillermo Carrillo Martín** - ProteoParc: A bioinformatic tool to generate reference databases for paleoproteomics data analysis &

**Jan Dekker** - Smaller databases; more identifications in less time

**Johanna Krueger** - A scoring system for ion series completeness

**Baltazart Karl** - In silico methods for deep time protein sequence reconstruction

**Miranda Evans** - The Re-amidator: a tool for screening deamidation-induced alternate peptide taxonomy in ancient protein studies

#### *TAG-team:*

**Ian Engels & Alexandra Burnett** - ClassiCOL: LC-MSMS analysis for ancient species classification via collagen peptide ambiguity

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### 15:00-16:15 **Session 4 – Hidden gems**

Chair: Louise Le Meillour

#### *TAG-team:*

**Laura Viñas Caron** - Fashioning Sudan: identification of ancient animal species used for wool and skin production &

**Youri van den Hurk** - Palaeoproteomics of Andean Camelid Fibers

#### *TAG-team:*

**Daphne Simard & Sarah Sunne** - Palaeoproteomic insights into health in Early Medieval England

**Helan Mary Abin** - Collagen Fingerprinting on Mesolithic Bone points

#### *TAG-team:*

**Tuuli Kasso & Caterina Zaggia** - NovorCloud vs. MaxQuant: Insights on Proteins in Egyptian Plasters

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### 16:30-17:50 **Session 5 – PAASTA salad**

Chair: TBA

**Shana Wernado** - At Home in the Neolithic: ZooMS analysis of fauna from a potential Starčevo house in the South Morava Valley, Serbia

**Louise Le Meillour** - Building -obvious- bridges: combined palaeogenomic and palaeoproteomic analysis for the study of Caprinae early domestication

**Oded Rimon** - The Power of Palaeo Proteomics: could ancestries of early hominins be resolved using proteomics?

**Carli Peters** - ProteoBank: an open-access, community-curated database of ZooMS peptide markers

*TAG-team:*

**Ryan Paterson & Raman Umamaheswaran** - Investigating the limits of ancient protein preservation within a diagenetic framework

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