

DAY 1 Wednesday, March 16<sup>th</sup>

1:00pm Johannes Krause, Alexander Herbig

Welcome at MPI-SHH and Introduction

Metagenomic Applications in Paleogenetics

1:30-2:15pm Hernán Burbano

Mining ancient microbiomes using selective enrichment

of damaged DNA molecules

2:15-3:00pm Christina Warinner

Data generation from ancient microbiota: laboratory

strategies and considerations

3:00-3:30pm Coffee break

3:30-4:15pm Simon Rasmussen

Reconstructing ancient pathogens - discovery of Yersinia

pestis in Eurasia 5,000 Years Ago

4:15-5:00pm Martin Kircher

NGS Sequencing: Diverse applications of Sequence,

Counts and Structure

5:00-6:00pm **Discussions** 

6:00pm Welcome reception at MPI-SHH



## DAY 2 Thursday, March 17<sup>th</sup>

## Metagenomic Tools and Frameworks

9:00-9:45am Ludovic Orlando

Computational approaches in ancient genomics and

metagenomics

9:45-10:30am Alice McHardy

The CAMI Initiative - Critical Assessment of Metagenome

Interpretation

10:30-11:00am Coffee break

11:00-11:45am Alexander Herbig

MALT: Fast alignment and analysis of metagenomic DNA

sequence data

11:45-12:30pm Daniel Huson

Efficient analysis of very large microbiome sequencing

projects

12:30-2:00pm **Lunch break** 

#### Practical Session

2:00-4:00pm Mikkel Schubert, Ludovic Orlando

PALEOMIX and metaBIT, two user-friendly pipelines for characterizing ancient genomes and metagenomes

4:00-4:30pm Coffee break

4:30-5:15pm Alexander Herbig, Clemens Weiß

Analysis of ancient microbiomes with MALT and MEGAN

5:15-6:00pm Mohamed El-Hadidi, Sina Beier

MEGAN6 for taxonomic and functional analysis of

metagenomic data

6:00-6:45pm Jon Sanders

Finding, visualizing, and remembering unique

16S sequences to explore coevolution and contamination

7:00pm **Dinner at Restaurant** 



# DAY 3 Friday, March 18<sup>th</sup>

## Applications and Techniques

9:00-9:45am Pamela Weisenhorn

Evolution of energy metabolism in human

associated microorganisms

9:45:10:30am Ruben Garrido Oter

Functional overlap of the Arabidopsis leaf and root

microbiotas

10:30-11:00am Coffee break

11:00-11:45am Jon Sanders

Working below the OTU in 16S analyses: contamination, coevolution, and more

11:45-12:30pm Final Discussions and Closing Remarks

12:30pm Lunch and Departure

