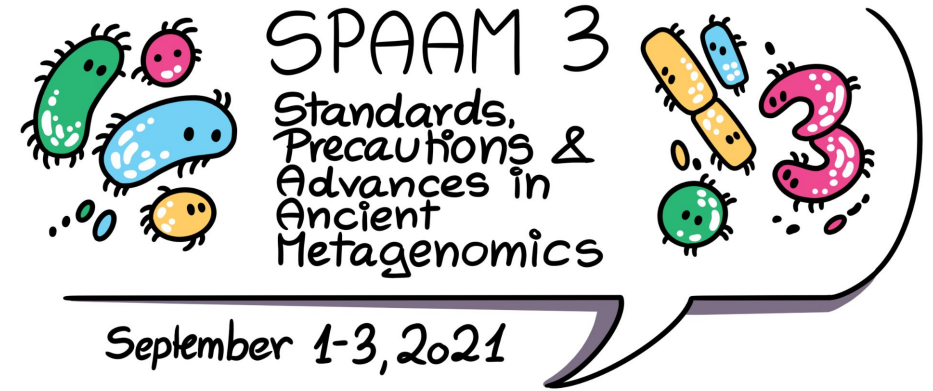


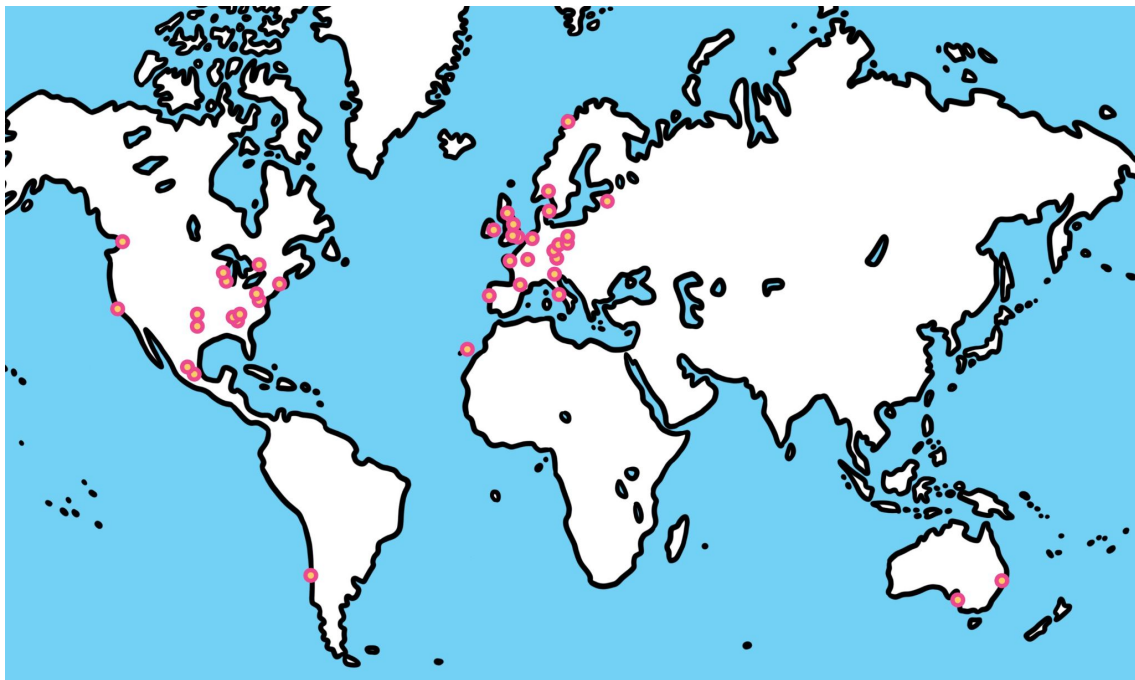
Standards,
Precautions &
Advances in
Ancient
Metagenomics



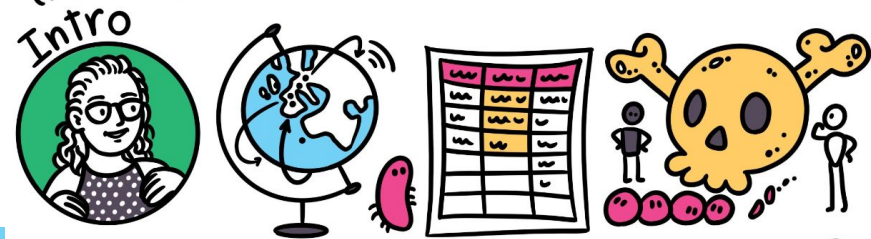
Session 3: Urgent challenges and future steps in ancient microbiome research

Sterling Wright and Kelly Blevins | September 2nd, 2021 | SPAAM3





Petra Korlevic
@petrathepostdoc



Ethical considerations & best practices



Current challenges & biases



Brew O'Clock!



Session 3 Agenda



5 Speakers

Abigail Gancz

Penn State

Nathan Martin

University of Rennes 1

Allison Mann

Clemson University

Nikolay Oskolkov

Lund University

Barbara Moguel

Universidad Nacional Autonoma de Mexico



Discussion

Part 1: Optimizing and assessing practices for pre-laboratory setup

Part 2: Identifying opportunities to advance laboratory practices

Part 3: Identifying best practices for authenticating and analyzing ancient microbiome datasets



Break

Session 3 break begin at:
7:50 Pacific Time
15:50 Central European Summer Time



Objectives for this Session

01

Share expert knowledge about the ancient microbiome field, present new research findings, and facilitate new collaborations

02

Promote open and frank discussions about the current gaps in the field and how to optimize and advance them

03

Outline a series of guidelines that can be recommended for future research design



Suggested Topics of Discussion

- What are limitations and advantages of using a synthetic dataset?
- Can we agree on thresholds for authenticating a finding? How do thresholds shift depending on the target organism(s) and/or microbiome?
- What are recommendations for researchers who sample calculus but are not sure how to document all the pertinent osteological and paleopathological metadata?
- Are all current field decontamination protocols still appropriate?
- Where do we see the ancient microbiome field in five years from now? Should we strive for standardization?

