

Introduction to Ancient Metagenomics

James Fellows Yates

2023-07-05

Table of contents

Preface	3
1 Introduction	4
I Theory	5
2 Introduction to NGS Sequencing	6
3 Introduction to Ancient DNA	7
4 Introduction to Metagenomics	8
5 Introduction to Microbial Genomics	9
6 Introduction to Evolutionary Biology	10
II Useful Skills	11
7 Bare Bones Bash	12
8 Introduction to R and the Tidyverse	13
9 Introduction to Python and Pandas	14
10 Introduction to Git(Hub)	15
11 Summary	16
References	17
12 Acknowledgements	18
13 Acknowledgements	19
13.1 Financial Support	19
13.2 Institutional Support	19
13.3 Infrastructural Support	19

Preface

This is a Quarto book.

To learn more about Quarto books visit <https://quarto.org/docs/books>.

1 + 1

[1] 2

1 Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

```
1 + 1
```

```
[1] 2
```

Part I

Theory

2 Introduction to NGS Sequencing

3 Introduction to Ancient DNA

4 Introduction to Metagenomics

5 Introduction to Microbial Genomics

6 Introduction to Evolutionary Biology

Part II

Useful Skills

7 Bare Bones Bash

8 Introduction to R and the Tidyverse

9 Introduction to Python and Pandas

10 Introduction to Git(Hub)

11 Summary

In summary, this book has no content whatsoever.

1 + **1**

[1] 2

References

Knuth, Donald E. 1984. “Literate Programming.” *Comput. J.* 27 (2): 97–111. <https://doi.org/10.1093/comjnl/27.2.97>.

12 Acknowledgements

13 Acknowledgements

We would like to thank

13.1 Financial Support

This summer school is supported by the Werner Siemens-Stiftung (Grant: Paleobiotechnology, awarded to Pierre Stallforth, Hans-Knöll Institute, and Christina Warinner, Max Planck Institute for Evolutionary Anthropology)

13.2 Institutional Support



13.3 Infrastructural Support

The 2022 edition of work was supported by the BMBF-funded de.NBI Cloud within the German Network for Bioinformatics Infrastructure (de.NBI) (031A532B, 031A533A, 031A533B, 031A534A, 031A535A, 031A537A, 031A537B, 031A537C, 031A537D, 031A538A).