bm211-workshops

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Preface to the 2023-24 presentation

Welcome to the 2023-24 edition of the BM211 computing workshops.

This is the first presentation of this material in this form, and we would be very grateful to hear feedback by email or through the GitHub repository Issues page.

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

2 Summary

In summary, this book has no content whatsoever.

1 + 1

[1] 2

Part I Workshop 01

Our goal in this computational workshop is to introduce some concepts in microbial ecology.

Diversity Measures

This chapter will introduce the concept of a diversity measure in microbial ecology.

Part II Workshop 04

Our goal in this workshop is to introduce you to handling and analysing CRISPR-Cas sequence data.

PILER-CR

This chapter will introduce the software tool PILER-CR, which is designed to predict the location and content of CRISPR repeats in microbial genomes.

Part III Workshop 05

Our goal in this workshop is to introduce you to producing and interpreting phylogenetic trees.

Protein Trees

This chapter will guide you through the process of producing a phylogenetic tree from a protein sequence alignment.

References

Knuth, Donald E. 1984. "Literate Programming." Comput.~J.~27~(2): 97–111. https://doi.org/10.1093/comjnl/27.2.97.