

Thursday 27 – Friday 28 July 2023

Workshop overview

- Interpreting phylogenetic trees
- Molecular evolution and evolutionary models
- Phylogenetic data
- Phylogenetic methods
- Molecular dating

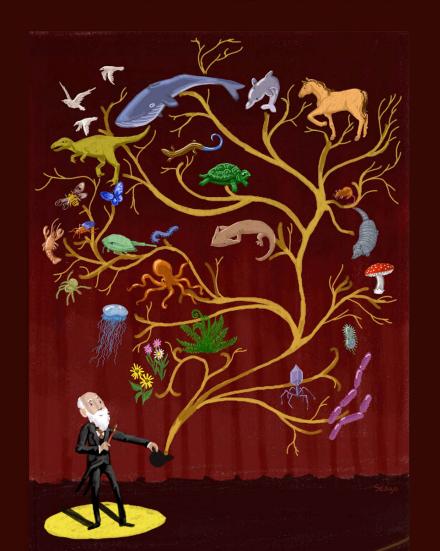






Contributors

MOLECULAR ECOLOGY, EVOLUTION, & PHYLOGENETICS LABORATORY



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Programme – Day 1

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Lecture 1.1: Introduction to molecular phylogenetics
09.40 - 10.30
               Practical 1.1a: Sequence alignment in MEGA
10.30 - 11.00
               - Break -
11.15 - 12.00
               Lecture 1.2: Evolutionary models
               Lecture 1.3: Phylogenetic data
12.00 - 12.30
               - Lunch break -
               Lecture 1.4: Phylogenetic methods
13.15 - 14.00
14.00 - 14.30
               Lecture 1.5: Phylogenomics
               Practical 1.1b: Model selection and phylogenetics in MEGA
14.30 - 17.00
               Optional Practical 1.2: Phylogenomic analysis using ASTRAL
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Programme – Day 2

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Lecture 2.1: Phylogenetic analysis with IQ-TREE
09.30 - 10.30
               Practical 2.1: IQ-TREE workshop tutorial
10.30 - 11.00
               - Break -
11.15 - 12.30
               Practical 2.1: IQ-TREE workshop tutorial (continued)
               - Lunch break -
               Lecture 2.2: Bayesian phylogenetics
13.15 - 14.15
14.20 - 15.00
               Lecture 2.3: Molecular dating
15.00 – 17.00 Practical 2.2: Bayesian molecular dating using BEAST
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Things to note

- Facilities
- Breaks
- Wifi
- Software
- Support
- Questions

Workshop materials github.com/simon-ho/ SydneyPhyloWorkshop