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Practical Courses

Advanced Methods for Phylogenetic Analysis of Molecular Sequences

Instituto de Pesquisas Jardim
Botânico do Rio de Janeiro

08 – 14 March 2010



Timetable

Monday 8th March

0900-1000 Introduction – Martin
1000-1030 Coffee and discussion
1030-1200 Multiple sequence alignment – Tobias
1200-1300 Student introduction and powerpoint presentations (I)
1300-1400 Lunch
1400-1800 Practical – Alignment and high throughput alignment methods – Tobias
1800-1900 Student powerpoint presentations (II).

Tuesday 9th March

0900-1000 Distance matrix methods – Martin
1000-1030 Coffee and discussion
1030-1200 Maximum parsimony – Mark
1200-1300 Student powerpoint presentations (III).
1300-1400 Lunch
1400-1500 Demonstration – PAUP software – Tobias and Peter
1500-1800 Practical – phylogenetic analysis using PAUP - Robert and Peter
1800-1900 Student powerpoint presentations (IV).

Wednesday 10th March

0900-1000 Maximum likelihood – Peter
1000-1030 Coffee and discussion.
1030-1200 Bayesian inference – Peter
1200-1300 Student powerpoint presentations (V)
1300-1400 Lunch

1400-1800 Practical (likelihood and Bayesian inference) - Peter
1800-1900 Student powerpoint presentations (VI)

Thursday 11th March

0900-1000 Protein phylogenetics – Robert
1000-1030 Coffee and discussion
1030-1200 Protein phylogenetics – Robert
1200-1300 Student powerpoint presentations (VII)
1300-1400 Lunch
1400-1700 Practical – protein phylogenetics Robert
1700-1800 Student powerpoint presentations (VIII).
1800-1900 Seminar Martin

Friday 12th March

0900-1000 Robustness of data and hypotheses – Mark
1000-1030 Coffee and discussion.
1030-1300 Phylogenetic Supertrees and total evidence – Mark
1300-1400 Lunch
1400-1800 Practical – phylogenetic supertrees - – Mark and Tobias
1800-1900 Seminar - Mark

Saturday 13th March

0900-1000 High throughput phylogenomics (i) – Robert
1000-1030 Coffee and discussion

1030-1300 High throughput phylogenomics (ii) – James
1300-1400 Lunch
1400-1500 Demonstration – phylogenomic pipeline development - Tobias
1500-1800 Practical – phylogenomics.

Sunday 14th March

0900-1000 Round table discussion (I).
1000-1030 Coffee and discussion.
1030-1300 Round table discussion (II).
1300-1400 Lunch.
1400- Course ends.