

Mathematics of Evolution and Phylogeny Conference

<http://www.lirmm.fr/MEP05/>

June 17-18 and 20-21, 2005, Institut Henri Poincaré.



Organizers

- **Olivier Gascuel**, CNRS, Montpellier, France
- **Mike Steel**, Univ. Canterbury, Christchurch, New Zealand

Theme

This conference follows a similar workshop that was held in June 2003. The subject is evolution, which is considered at different scales: sequences, genes, gene families, organelles, genomes, and species. The focus is on the mathematical and computational tools and concepts, which form an essential basis of evolutionary studies. Recent years have witnessed rapid progress in this area, with models and methods becoming more realistic, powerful, and complex. The goal of the conference is to provide pedagogical presentations of the main subjects in the field, from basic principles to the cutting edge, with time for discussion and debate. There will be presentations by some of the leading experts in the field. Each speaker will survey a broad range of methods, techniques and results. Young scientists will also be selected, to give short talks or present posters.

Expert Speakers

Elizabeth Allman

Phylogenetic Invariants: Recent Progress and New Directions

Laurent Excoffier

Human Paleogenetics

Joe Felsenstein

Trees of Genes within Species

Dan Gusfield

Reconstructing Ancestral Recombination Graphs

Daniel Huson

Splits and Phylogenetic Networks

Bret Larget

Bayesian Phylogenetics

Arne Mooers

The Shape of Phylogenies

Pavel Pevzner

Genome Rearrangements

Allen Rodrigo

Evolutionary Analysis of Measurably Evolving Populations

Hugues Roest Crollius

Reconstructing the ancestral vertebrate genome

Charles Semple

Reticulate Evolution

Mike Steel

Phylogenetic Diversity - from Combinatorics to Ecology

Call for Presentations of Young Scientists

Young scientists will be selected, to give short talks or present posters. Those wishing to do so should email Olivier Gascuel and Mike Steel with an extended abstract of the intended presentation, with links to published papers or manuscripts. **Deadline: February 28, 2005.**

Location and Online Registration

The conference will be held in the French mathematical Institut Henri Poincaré, situated in the centre of Paris, close to the Luxembourg garden. Online registrations are open. The registration fee is 100 Euros (not applicable to expert and selected speakers). Early registration are encouraged as in 2003 the meeting filled up and registration was closed (with a waiting list) sometime before the meeting.



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