

**MOLECULAR EVOLUTION WORKSHOP**  
**August 8 - August 20, 1993**  
**Marine Biological Laboratory at Woods Hole**

**SUNDAY - August 7, 1994**

**All Day**      Registration

**Evening**  
7:30 pm      Reception in Meigs Room

**MONDAY - August 8**

**Morning**      **Whitman Auditorium**  
9:00 am      Mitchell L. Sogin  
Welcome to Molecular Evolution Workshop

9:30 am      Walter Fitch  
Introductory Lecture on Phylogenetics  
and Molecular Evolution

12:30      Lunch

**Afternoon**      **Whitman Auditorium**  
2:00 pm      Mitchell L. Sogin  
Molecular Evolution in Protists  
Everything you want to know about  
phylogenetic reconstructions from rRNA data.

Organization of Computer Workshops

**Evening**      **Lillie Auditorium**  
7:30 pm      David Swofford/David Maddison  
Parsimony and Analysis of Molecular Data

**TUESDAY - August 9**

**Morning**      **Whitman Auditorium**  
9:00 am      David Swofford/David Maddison  
PAUP-MacClade/Computer Demos

12:00      Lunch

**Afternoon**      **Whitman Auditorium**  
2:00 pm      Gary Olsen  
Alignment and Distance Methods for inferring phylogenies

**Evening**      **Loeb 308**  
7:30 pm      Brendan Reilly  
Navigating the MBL-Net

8:00 pm      Gary Olsen/Mitchell Sogin  
Alignment Editors/Computer Lab

**WEDNESDAY - August 10**

**Morning**      **Whitman Auditorium**  
9:00 am      Joe Felsenstein  
                 Maximum Likelihood and Phylogenetic Inference

12:00          Lunch

**Afternoon**    **Loeb 308**  
2:00 pm      David Swofford/David Maddison  
                 PAUP/McCLADE Computer Lab

**Evening**      **Loeb 308**  
7:30 pm      Joe Felsenstein PHYLIP Computer Lab

**THURSDAY - August 11**

**Morning**      **Whitman Auditorium**  
9:00 am      Dan Davison  
                 Surfing the Internet

12:00          Lunch

**Afternoon**    **Loeb 308**  
2:00 pm      Cathy Norton  
                 NLM Molecular Data Base/Computer Laboratory

**Evening**      **Whitman Auditorium**  
7:30 pm      Terry Speed  
                 Statistics and Molecular Evolution.

**FRIDAY - August 12**

**Morning**      **Whitman Auditorium**  
9:00 am      Bruce Walsh  
                 Introduction to Molecular Population Biology

12:00          Lunch

**Afternoon**    **Whitman Auditorium** *Glycosomes*  
2:00 pm      Student Workshop I      *DNA patterning*

**Evening**      **Lillie Auditorium (Friday Evening Lecture)**  
7:30 pm      Stephen O'Brien  
                 Retracing the Natural History of Endangered Species: Lessons  
                 from the Big Cats

9:00 pm      Wine and Cheese Party in Meigs Room

**SATURDAY - August 13**

**Morning**      **Whitman Auditorium**  
9:00 am      Stephen O'Brien  
Phylogenetics applications for Users: taxonomy, biopolitics,  
biomedical and forensics

12:00      Lunch

**Afternoon**

2:00 pm      Free Afternoon

**Evening**  
5:00 pm      Reception/Sogin Residence

**SUNDAY - August 14**

Free Day

**MONDAY - August 15**

**Morning**      **Whitman Auditorium**  
9:00 am      Dick Hudson  
Gene trees and the coalescent process

12:00      Lunch

**Afternoon**      **Loeb 308**  
2:00 pm      Steve Majors/BioSearch of Millipore  
Computer Lab/Automated Data Acquisition and Gel Scanning

**Evening**      **Whitman Auditorium**  
7:30 pm      Peg Riley  
*Detecting selection with DNA sequence data*

**TUESDAY - August 16**

**Morning**      **Whitman Auditorium**  
9:00 am      Roger Milkman  
Molecular Evolution of the E. coli Chromosome

12:00      Lunch

**Afternoon**      **Whitman Auditorium**  
2:00 pm      Optional Workshops

**Evening**      **Whitman Auditorium**  
7:30 pm      Robin Gutell  
Lessons from an Evolving RNA: 16S and 23S rRNA  
Structures from a Comparative Perspective

**WEDNESDAY - August 17**

**Morning**      **Whitman Auditorium**  
9:00 am      Norman Pace  
                    Phylogeny as a Laboratory Tool

12:00          Lunch

**Afternoon**  
2:00 pm      Optional Workshops

**Evening**      **Whitman Auditorium**  
7:30 pm      George Fox  
                    Sequence Spaces, Structure Spaces and RNA Evolution

**THURSDAY - August 18**

**Morning**      **Whitman Auditorium**  
9:00 am      Monica Riley  
                    Metabolic Maps and the E. coli Genome

12:00          Lunch

**Afternoon**    **Whitman Auditorium**  
2:00 pm      Student Workshop

**Evening**      **Whitman Auditorium**  
7:30 pm      Laura Landwebber  
                    Evolution of RNA editing systems

**FRIDAY - August 19**

**Morning**      **Whitman Auditorium**  
9:00 am      Peter Waddell  
                    Methods of phylogenetic reconstruction that  
                    make more reasonable and testable assumptions  
                    about the evolutionary process

12:00          Lunch

**Afternoon**  
1:00 pm      End of Two Week Workshop

**SATURDAY - August 20**

Start of Special Topics Workshop

**FRIDAY - August 26**

End of Special Topics Workshop