

Coral Molecular Biology Techniques Workshop Schedule  
August 2-13, 2004

Workshop will start at 9 a.m. daily unless otherwise scheduled in advance.

- 8/02 M am — Welcome to HIMB, Lab Safety, Lab Introduction — T. Lewis  
pm — Snorkel, sample collection, samples for DNA extraction (overnight lysis)
- 8/03 T am — Lecture and then to lab to complete coral DNA extractions for PCR — R. Toonen  
pm — Electrophoresis lecture — M. Rappe
- 8/04 W am — Lectures—Population genetics & Phylogeography — B. Bowen  
pm — PCR lecture and lab  
JOURNAL CLUB – Baums manuscript
- 8/05 Th am — Electrophoresis lab — M. Rappe  
pm — Sequencing demo, sequencing samples to run overnight — S. Daley
- 8/06 F am — Microsatellite lecture – R. Toonen,  
pm — Coalescent theory – S. Grant, review of sequencing results
- 8/07 S am — Introduction to genetics software packages – S. Grant  
pm — Arlequin — R. Toonen and B. Bowen
- 8/08 S am — SWAP MEET excursion  
pm — snorkel at reef and collect samples, freeze for RNA extractions
- 8/09 M *7:00 am observe DGGE samples loaded onto gel (OPTIONAL)*  
am — Overview of lab and set up PCR — R. Gates, C. Starger  
Lecture – How do we address zooxanthellae diversity and why? – R. Gates  
pm — Run PCR products on gel, set up RFLP- R. Gates  
2:45 seminar by M. Rodriguez-Lanetty  
4 – 5:30 DGGE demonstration lab – A. Aprill, C. Starger
- 8/10 T am — Lab – RFLP gel electrophoresis - R. Gates, C. Starger  
Lectures – Normalizing data in corals — R. Gates  
pm — Lab - RNA isolation, spec analysis — T. Lewis
- 8/11 W am — Gene expression, QPCR — T. Lewis  
pm — QPCR demonstration – T. Lewis  
Q/A session with faculty
- 8/12 Th am — Lecture — Cellular Diagnostics, Lab – Protein sample prep — T. Lewis  
pm — Protein gel electrophoresis — T. Lewis
- 8/13 F (all day) Immunoblotting experiment with lab clean up/exit survey, etc. during incubations — T. Lewis LUNCHTIME SEMINAR – T. Ridgeway  
Pau Hana Party