WELCOME TO ARIP 2016!

• Lab introductions
  • Regina Wetzer — Associate Curator & MBC Director
  • Dean Pentcheff — Research Associate
  • Kathy Omura — Collections Manager, MBC
  • Adam Wall — Collections Manager, Crustacea
  • Jenessa Wall — Assistant Collections Manager, MBC

• Lab and Museum policies and procedures
  • Professional working environment
  • Intellectual property
  • Interacting with the public
  • Lab etiquette
  • Bathrooms and doors — 1698
RESEARCH PLAN

From field collection to molecular barcode reference library in two weeks

• Field collection of primary biodiversity specimens (Tue)
• Marine invertebrate taxonomy and identification (Wed)
• DNA extraction (Wed)
• DNA amplification of COI (barcode) gene (Thu)
• Cleaning of amplified DNA for sequencing (Fri)
• Evaluation and editing of DNA sequences (Tue)
• Register barcode sequences in Barcode of Life (BOLD) library (Thu)
LEARNING OBJECTIVES

• Biology
  • Biodiversity science
  • Marine field collecting
  • Molecular genetic biodiversity quantification

• Research Skills
  • Critical assessment of primary research literature
  • Field and lab specimen processing techniques
  • Core molecular biology techniques
  • Direct interaction with international genetic repositories

• Life Skills
  • Confidence and self-awareness training
  • Exploration of university opportunities in the U.S.
  • Experiencing U.S. culture around leading universities