

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