

# Frontiers in Phylogenetics

## Fall Symposium 2015

### Tuesday, September 15th, 2015

#### Methods and analysis of coevolution across scales: from within genomes to disease and environments

GAATCTGCGCTTTATCAGCC  
TTCGGGTAAAGCCCAGCAGTA  
CCTGTAAGTCTCCAGAAAG  
GTCAGATAGTAGCGAAACCT  
GCTCCAGGATTGCAGSAAAG  
GGCCCAGCAGAAATCGCTGTGA  
ACCAGGCTTCCCTCTCAGCC  
TGTTTCGTGTCAGATCTGGG  
AAAGATGGCTTACAGCTTC

- 9:00-9:15 Welcome: **Maureen Kearney**, NMNH Associate Director for Science
- 9:15-9:50 Functional immunogenomics of tolerance in an amphibian-fungus host pathogen system  
**Anna Savage** - University of Central Florida
- 9:50-10:25: Phylogenetic and population genomic approaches for investigating plant-parasite evolution  
**Marin Talbot Brewer** - University of Georgia
- 10:25-10:40 break
- 10:40-11:15 Phylogeny-driven environmental sequencing approaches for microbial eukaryotes  
**Holly Bik** - University of Birmingham
- 11:15-11:50 Tracing Origins of Salmonella Strains Causing a Food-borne Outbreak  
**Maria Hoffmann** - Food and Drug Administration
- 11:50-12:25 Using "omics" to understand interactions with beneficial bacteria in the model squid host *Euprymna scolopes*  
**Spencer Nyholm** - University of Connecticut
- 12:25-2:00 lunch break
- 2:00-2:35 Genes, evolution, and geography of pathogens  
**Daniel Janies** - University of North Carolina Charlotte
- 2:35-3:10 From genomes to microbiomes: The role of symbiosis in ants  
**Corrie Moreau** - The Field Museum
- 3:10-3:45 Tracking the origins of infectious diseases using museum collections  
**C. Miguel Pinto** - National Museum of Natural History
- 3:45-4:00 break
- 4:00-4:35 Evolutionary patterns in microbial energy metabolism  
**Pamela Weisenhorn** - Argonne National Lab
- 4:35-5:10 Contrasting Patterns of Genetic Divergence in Obligate Brood Parasites: Implications for the Genetics of Host-Specific Adaptation  
**Michael Sorenson** - Boston University

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