

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
ACCAGGCCCTCCCTCTCAGCC
TGTTTCGTGATCCATCCGGG
AAAGATGGCTTACATAGCTTC

- 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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