

Wednesday, April 26, 2017  
POSTER SESSION IV:  
ORIGIN AND EVOLUTION OF LIFE: EVOLUTION/GENETICS:  
HOW DO SYMBIOSES ENABLE LIFE TO COLONIZE NEW HABITATS?  
8:00 p.m. Main Hall

Rao D. Follows M. J.

[Modeling Algal-Bacterial Mutualism in a Global Ocean: The Impact of Non-Trophic Interactions](#) [#3406]

This study includes non-trophic interactions (mutualism) into an existing marine microbial community to examine the impact on production and dynamics.

Peterson K. D. Crowther C. V. Hayes M. A. Gile G. H.

[Utilization of Dielectrophoretic Microfluidic Channels in Protist Separation to Enable Sybiosis Research](#) [#3476]

A dielectrophoretic separation device is being fabricated to isolate large microorganisms in symbiotic relationships for morphological and genetic analyses.

Gavelis G. S. Gile G. H.

[Genetically Engineering Cyanobacteria into Chloroplasts](#) [#3482]

We present a new model system for the field of chloroplast evolution.

Merrell T. L. Martini F. D. Gile G. H.

[The Evolutionary Origin of Spirotrichonympha in the Termite Genus Reticulitermes](#) [#3485]

Spirotrichonympha from Reticulitermes tibialis is more similar to Spirotrichonympha from Hodotermopsis than its closer relatives, Coptotermes and Heterotermes.