

Marine Biological Laboratory Publications

Diversity and Physiology of Prokaryotes in Selected Thermophilic and Mesophilic Environments That Might Resemble Early Earth's Biosphere

- Teske, A., Hinrichs, K-U., Edgcomb, V., de Vera Gomez, A., Kysela, D., Sogin, M. & Jannasch, H. (In Preparation, 2001). Archaeal and bacterial population structure of hydrothermal sediments at the Guaymas Basin vent sites derived from 16S rRNA sequence and C13 analysis of archaeal and bacterial lipids: Indications for anaerobic methanotrophy. *Applied and Environmental Microbiology*.
- Teske, A.P., Hinrichs, K-U., Edgcomb, V., Kysela, D. & Sogin, M.L. (2001). Novel archaea in Guaymas Basin hydrothermal vent sediments: Evidence for anaerobic methanotrophy [Abstract]. *General Meeting of the NASA Astrobiology Institute* (p. 138), Carnegie Institution of Washington, Washington, DC.
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Diversity of Eukaryotes in Thermophilic and Mesophilic Environments that might Resemble Early Earth's Biosphere

- Atkins, M.S., Teske, A.P., Taylor, C.D., Wirsén, C.O. & Anderson, O.R. (2001). Flagellate growth and survival under conditions potentially encountered at deep sea hydrothermal vents [Abstract]. *General Meeting of the NASA Astrobiology Institute* (p. 96), Carnegie Institution of Washington, Washington, DC.
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Eukaryotic Diversity in the Rio Tinto: Spain's Acidic/High Metal Extreme Environment

- Amaral Zettler, L.A., Amils, R., Gomez, F., Keenan, B., Sogin, M.L. (2001). Eukaryotic diversity in an acidic, metal-rich environment: Spain's Tinto River [Abstract]. *General Meeting of the NASA Astrobiology Institute* (p. 147), Carnegie Institution of Washington, Washington, DC.
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- Amils, R., Gomez, F., Rodriguez, N., Fernandez-Remolar, D., Amaral Zettler, L.A., Gonzalez-Toril, E. (2001). Iron geomicrobiology of the Tinto River [Abstract]. *General Meeting of the NASA Astrobiology Institute* (p. 91), Carnegie Institution of Washington, Washington, DC.
- Messerli, M., Amaral Zettler, L.A., Smith, P.J.S. & Sogin, M.L. (2001). Cytosolic pH maintenance in eukaryotic acidophiles [Abstract]. *General Meeting of the NASA Astrobiology Institute* (pp. 118-119), Carnegie Institution of Washington, Washington, DC.

Eukaryotic Origins and the Evolution of Cellular Complexity — Eukaryotic rRNA Evolution: Early Diverging Eukaryotes

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Eukaryotic Origins and the Evolution of Cellular Complexity — Evolution of Tubulins

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Eukaryotic rRNA Evolution: Origins of "Crown Group Taxa"

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- Medina, M., Collins, A., Silberman, J. & Sogin, M. (In Press, 2001). Evaluating hypotheses of basal animal phylogeny using complete sequences of large and small subunit rRNA. *Proceedings of the National Academy of Sciences of the United States of America*.

Genes That Regulate Photosymbiotic Interactions

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Origin of Life: Evolution of Proteins

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Physiological Regulation of Cytosolic pH in a Eukaryotic Acidophile

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Protist Diversity in Extreme Environments

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Relationship of Genetic Changes to Phenotypic Changes in Organism – Environment Interactions

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