

ADVANCES IN MICROBIAL PHYSIOLOGY

EDITED BY ROBERT K. POOLE

C O N T E N T S

Ammonia-Oxidising Archaea – Physiology, Ecology and Evolution

*Christa Schleper and Graeme W. Nicol*Reductive Stress in Microbes: Implications for Understanding *Mycobacterium tuberculosis* Disease and Persistence*Aisha Farhana, Loni Guidry, Anup Srivastava, Amit Singh, Mary K. Hondalus, and Adrie J.C. Steyn*

Regulation of CtsR Activity in Low GC, Gram+ Bacteria

Alexander K.W. Elsholz, Ulf Gerth and Michael Hecker

Cover illustration. Electron micrograph images of ammonia oxidising archaea. (A) Au/Pd-sputtered cells of *Nitrosopumilus maritimus* (Könneke et al., 2005, with permission). (B) Fluorescent in situ hybridization of *C. symbiolum* in a cell preparation obtained from tissue of the sponge *Axinella mexicana* (kindly provided by Chris Preston). (C) Uranyl acetate contrasted, electron microscopic picture of *Nitrososphaera gargensis* (kindly provided by Eva Spieck) (D) Scanning electron microscopic picture of strain EN76 cultivated from Vienna soil (M. Tournu, C. Schleper, unpublished).



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