

ADVANCES IN MICROBIAL PHYSIOLOGY

EDITED BY ROBERT K. POOLE

C O N T E N T S

Heme Proteins in Lactic Acid Bacteria*Michael Baureder and Lars Hederstedt***Microbial Sulfite Respiration***Jörg Simon and Peter M.H. Kroneck***Our Second Genome – Human Metagenome: How Next-Generation Sequencer Changes our Life Through Microbiology***Shuolin Song, Thomas Jarvie and Masahira Hattori**Cover illustration:*

Figure 9 from Chapter 2 by Jörg Simon and Peter M.H. Kroneck. Structures of substrate complexes of the dissimilatory cytochrome *c* nitrite reductase from *W.succinogenes*. (A) Nitrite adduct (PDB-ID 2E80) with the substrate anion binding to the heme iron through the electron pair at the nitrogen atom. (B) Sulfite adduct (PDB-ID 3BNF). The binding mode is highly similar to nitrite but the bond distance to iron is slightly longer due to the larger van-der-Waals radius of sulfur.



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