

ADVANCES IN MICROBIAL PHYSIOLOGY

NITRIC OXIDE AND OTHER SMALL SIGNALLING MOLECULES

EDITED BY ROBERT K. POOLE

C O N T E N T S

Reactive Cysteine Persulfides: Occurrence, Biosynthesis, Antioxidant Activity, Methodologies, and Bacterial Persulfide Signalling*Tomohiro Sawa, Katsuhiko Ono, Hiroyasu Tsutsuki, Tianli Zhang, Tomoaki Ida, Motohiro Nishida and Takuaki Akaike***Nitric Oxide Signalling in Yeast***Rika I. Astuti, Ryo Nasuno and Hiroshi Takagi***The Inflammasome: Regulation of Nitric Oxide and Antimicrobial Host Defense***Rajalalshmy Ramachandran, Christopher Lupper and Hasan Zaki***Nitric Oxide, an Old Molecule With Noble Functions in *Pseudomonas Aeruginosa* Biology***Masanori Toyofuku and Sang S. Yoon***Emerging Roles for Nitric Oxide Synthase in Bacterial Physiology***Elizabeth H. Hufless, Sujata S. Chaudhari and Vinai C. Thomas***Anaerobic Bacterial Response to Nitrosative Stress***Jeff A. Cole*

Cover illustration: The cover illustration shows induction of iNOS upon recognition of pathogen by TLR. The recognition of pathogen or pathogen associated molecular patterns (PAMPs) by TLRs results in the activation of MyD88-dependent signalling cascade, which leads to the activation of transcription factors of the NF- κ B and MAPK pathways. The NF- κ B and MAPK pathways regulate the expression of myriads inflammatory genes including iNOS. For further details see the article by Zaki et al. in this volume.



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