



## Advances in microbial physiology.

Poole, Robert K.

Academic Press,  
1995

Electronic books

Monografía

Praise for the Serial""This series has consistently presented a well-balanced account if progress in microbial physiology...Invaluable for teaching purposes.""- AMERICAN SCIENTISTAdvances in Microbial Physiology was first published in 1967, and under the pioneering editorship of Professor Tony Rose, with the collaboration at various times of John Wilkinson, Gareth Morris and Dave Tempest, the series has become immensely successful and influential. The editors have always striven to interpret microbial physiology in the broadest possible context and have never restricted the con

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhemF0ei5yZW4vMjU5NzgZNDk>

**Título:** Advances in microbial physiology. Volume 37 electronic resource] edited by Robert K. Poole

**Editorial:** New York, N.Y. Academic Press 1995

**Descripción física:** 1 online resource (387 p.)

**Mención de serie:** Advances in microbial physiology 37

**Nota general:** Includes index

**Contenido:** Front Cover; Advances in Microbial Physiology, Volume 37; Copyright Page; Contents; Contributors to Volume 37; Preface; Chapter 1. Cellulose Hydrolysis by Bacteria and Fungi; 1. Introduction; 2. Cellulose Structures; 3. Structure and Function of Cellulases and Related Hydrolases; 4. Cellulase Systems; 5. Genetics of Cellulases and Related Hydrolases; 6. Microbial Cellulases in Biotechnology; 7. Conclusion; Acknowledgements; References; Chapter 2. Calcium and Bacteria; 1. Introduction; 2. The Cell Wall and Cell Membrane; 3. The Cytoplasm; 4. The Prokaryotic Nucleoid; 5. Concluding Remarks AcknowledgementsReferences; Chapter 3. Cationic Bactericidal Peptides; 1. Introduction; 2. Occurrence of Cationic Peptides in Nature; 3. Structure-Function Relationships; 4. Interactions with Lipids and Membranes; 5. Outlook; Acknowledgements; References; Chapter 4. Methylglyoxal and Regulation of its Metabolism in Microorganisms; 1. Introduction; 2. Properties of Methylglyoxal; 3. Metabolism of Methylglyoxal; 4. Genes for Metabolic Enzymes of Methylglyoxal in Microorganisms; 5. Regulation of Glyoxalase I Activity in Yeast; 6. S-D-Lactoylglutathione; 7. Concluding Remarks; References Chapter 5. Molecular Responses of Microbes to Environmental pH Stress1. Introduction; 2. pH-Regulated Gene Expression; 3. pH Stress Resistance; 4. Concluding Remarks; Acknowledgements; References; Chapter 6. Osmoadaptation in Bacteria; 1. Introduction; 2. The Challenge of Low Water Activity; 3. Salt in

Cytoplasm: The Halobacterial Solution; 4. Organic Osmolytes: The Most Common Solution; 5. Molecular Principles of Compatible Solute Function; 6. Concluding Statements; Acknowledgements; References; Author index; Subject index

**Lengua:** English

**ISBN:** 1-281-71160-8 9786611711603 0-08-057997-3

**Materia:** Microorganisms- Physiology Microbiology

**Autores:** Poole, Robert K.

**Enlace a serie principal:** Advances in microbial physiology (CKB)954926956860 (DLC)2011200619 (OCoLC)60626331 2162-5468

**Enlace a formato físico adicional:** 0-12-027737-9

---

### Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- [informa@baratz.es](mailto:informa@baratz.es)