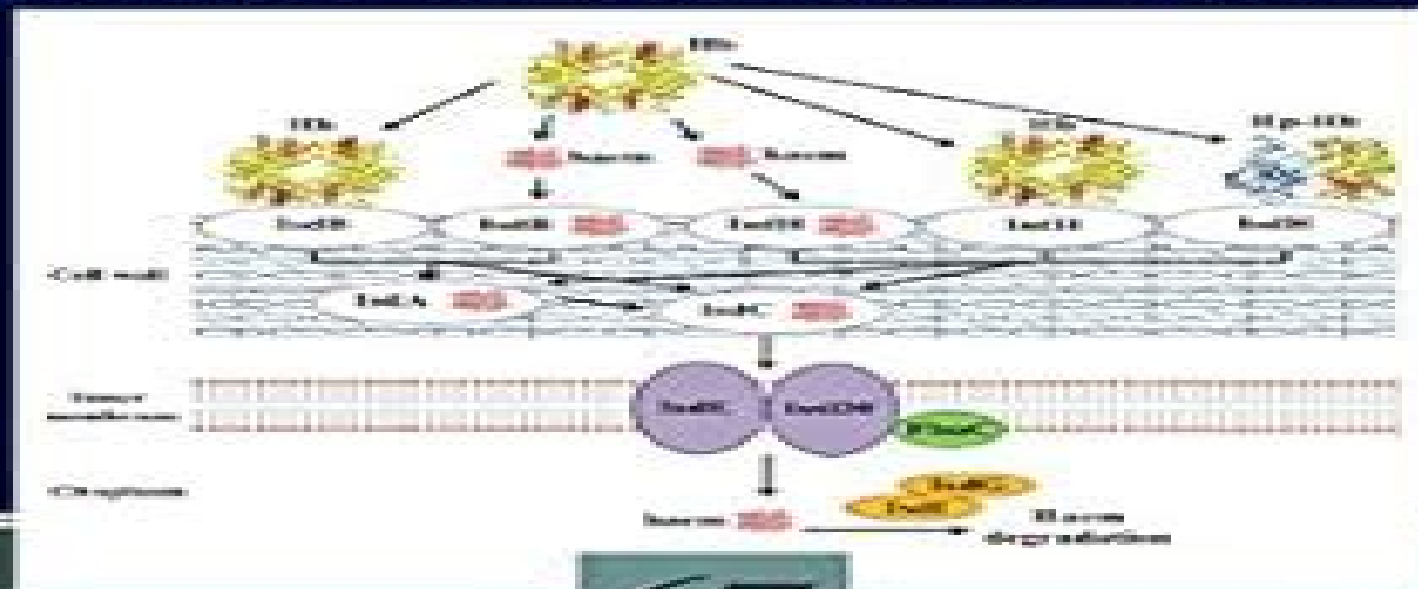


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EDITED BY ROBERT K. POOLE



Advances Microbial Oxygen Binding Proteins Physiology

Rosina Ehmman



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Barton, James G. Ferry, Michael K. Johnson, 2007-05-08 During the past twenty years multitudes of exciting discoveries in the field of anaerobic bacteria have been made *Biochemistry and Physiology of Anaerobic Bacteria* explores the full range of these microorganisms Many anaerobes have been found to have the uniquely fascinating quality of being able to survive indeed even thrive in extreme environments Anaerobic bacteria often do not require oxygen can survive extremes in temperature and can withstand the presence of toxins and heavy metals In addition these organisms have very different metabolic processes than conventional microorganisms The wide diversity of metabolism in anaerobes is only part of the story They have distinct energies cytochromes electron transport proteins hydrogenases and dehydrogenases Their molecular biology physiology and ability to use many types of electron receptors CO₂ sulfur nitrogen and metal oxides are also extraordinary With practical applications ranging from wastewater treatment to food storage issues clinical diagnosis and treatment of a wide range of medical conditions to decontamination of heavy metal exposures *Biochemistry and Physiology of Anaerobic Bacteria* will prove indispensable to researchers and students alike **Microbiology of Metal Ions**, 2017-05-18 *Advances in Microbial Physiology* Volume 70 continues the long tradition of topical important cutting edge reviews in microbiology with this new volume covering a variety of topics including Bacterial Hemoprotein Sensors of NO H NO_x and NosP Manganese in Marine Microbiology Nutritional Immunity and Fungal Pathogenesis The Struggle for Micronutrients at the Host Pathogen Interface Metal Based Combinations that Target Protein Synthesis by Fungi Transition Metal Homeostasis in *Streptococcus Pyogenes* and *Streptococcus Pneumoniae* Copper and Antibiotics Discovery Modes of Action and Opportunities for Medicinal Applications Metal Resistance and Its Association with Antibiotic Resistance and The Role of Intermetal Competition and Mis Metalation in Metal Toxicity Contains contributions from leading authorities in microbial physiology Informs and updates on all the latest developments in the field of microbial physiology **Adaptation and Evolution in Marine Environments, Volume 1** Guido di Prisco, Cinzia Verde, 2012-03-01 The poles undergo climate changes exceeding those in the rest of the world in terms of their speed and extent and have a key role in modulating the climate of the Earth Ecosystems adapted to polar environments are likely to become vulnerable to climate changes Their responses allow us to analyse and foresee the impact of changes at lower latitudes We need to increase our knowledge of the polar marine fauna of continental shelves slopes and deep sea as identifying the responses of species and communities is crucial to establishing efficient strategies against threats to biodiversity using international and cross disciplinary approaches The IPY 2007 2009 was a scientific milestone The outstanding contribution of Marine Biology is reflected in this volume and the next one on Adaptation and Evolution in Marine Environments The Impacts of Global Change on Biodiversity from the series From Pole to Pole making these volumes a unique and invaluable component of the scientific outcome of the IPY Anaerobes and Methanogens Bhagwan Narayan Rekadwad, 2025-10-22 The book presents the complex realm of anaerobes and methanogens which are microorganisms specialized in surviving in environments with very little or no oxygen

Anaerobes and methanogens play a vital role in many ecosystems ranging from the deep oceans to the human gut. The book describes the processes neighboring anaerobes and methanogens undergo to survive in environments low to no oxygen through their metabolic processes, genetic capabilities, and physiology. The book elaborates on the role of anaerobes in biogeochemical cycles, human health, and industrial processes. If it is biogas production or degradation of organic matter, anaerobic and methanogenic microorganisms play an important role in the ecosystem within our planet. The book shows a valuable perspective on anaerobes and methanogens and their important role in environments that are vital for life on Earth.

Advances in Bacterial Electron Transport Systems and Their Regulation Robert K. Poole, 2016-04-28. *Advances in Microbial Physiology*. *Advances in Bacterial Electron Transport Systems and Their Regulation* is the latest volume in the *Advances in Microbial Physiology* series, which continues the long tradition of topical and important reviews in microbiology. This latest volume focuses on the advances in bacterial electron transport systems and their regulation. It contains contributions from leading authorities in the field of microbial physiology. It informs and updates on all the latest developments in the field. It presents a primary focus for this edition on the advances made in bacterial electron transport systems and their regulation.

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