



**Environmental Regulation of Microbial
Metabolism: Proceedings of the Federation of
European Microbiological Societies Symposium
Held in Pushchino, USSR 1-7 June 1983 (FEMS
symposium)**

I. S. Kulaev, E. A. Dawes

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Environmental Regulation of Microbial Metabolism: Proceedings of the Federation of European Microbiological Societies Symposium Held in Pushchino, USSR 1-7 June 1983 (FEMS symposium) I.
S. Kulaev, E. A. Dawes

Environmental Regulation of Microbial Metabolism contains the proceedings of the Federation of European Microbiological Societies Symposium held in Pushchino, USSR, on June 1-7, 1983. The symposium provided a forum for reviewing the environmental regulation of the metabolism of autotrophic and heterotrophic microorganisms; regulation of the biogenesis of cell walls and other structures in prokaryotic and eukaryotic microorganisms; and regulation of the secretion of macromolecules and transport of ions and solutes across microbial membranes.

Comprised of 52 chapters, this book begins with an overview of some aspects of environmental regulation of microbial phosphorus metabolism, followed by a discussion on the role of covalent interconversion of enzymes in the regulation of microbial metabolism. Subsequent chapters explore the role and regulation of inorganic pyrophosphatase in bacteria; the central metabolism of pseudomonads degrading xenobiotics; the role of nickel enzymes in anaerobic metabolism; and the oxidation of aromatic compounds by microalgae. The book also considers carbon metabolism in phototrophic bacteria under different conditions of growth, along with the transport of solutes and metabolites in prokaryotes and eukaryotes.

This monograph will be helpful to a wide range of specialists in the fields of biochemistry, physiology, molecular biology, and biotechnology.

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