



The Evolution of the Bioenergetic Processes

E. Broda

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The Evolution of the Bioenergetic Processes deals with the evolution of the bioenergetic processes, from fermentation to photosynthesis and respiration, and their interrelationships in prokaryotes and eukaryotes. Topics covered range from the origin of life to the evolution of eobionts, organisms, and energy-rich compounds. Fermentation, photoorganotrophy, and photosynthesis in bacteria and plants are also discussed.

Comprised of 25 chapters, this book begins with an overview of energy and entropy in the biosphere, followed by a detailed treatment of the evolution of bioenergetics based on the pattern of the bioenergetic processes in extant organisms. The reader is then introduced to the events involved in the origin of life; the evolution of eobionts and organisms; and the origin of energy-rich compounds, particularly nucleotides of the adenylic acid system. Subsequent chapters focus on fermentation and photosynthesis; assimilation of carbon dioxide; photoorganotrophy, chemolithotrophy, and photolithotrophy; and aerobic and anaerobic respiration of prokaryotes. The book also considers the energy supply of protozoa and fungi before concluding with an analysis of the history of atmospheric oxygen.

This monograph will be of interest to evolutionary biologists.

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