



Photoprocesses, Photoreceptors, and Evolution

Jerome J. Wolken

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Photoprocesses, Photoreceptors, and Evolution discusses the important role that visible radiation has played in the development of photoreceptor systems, hence, in the evolution of life on earth. The book examines the spectrum of energies that impinge on the Earth, what kinds of molecules absorb these energies, and how they are structured within the cell to function as a photoreceptor system. The text describes the molecular structure of the cell membrane; the various kinds of pigment molecules; and the structures associated with photobiological phenomena. The relationship between the photoreceptor system and behavior, i.e. phototropism and phototaxis, photosynthesis, and vision, is also considered. The book further tackles the photoprocesses which function in photoperiodic phenomena - the “biological clocks”, aging, memory, and bioluminescence. The text then demonstrates the structure of the invertebrate and vertebrate photoreceptors; and the invertebrate and vertebrate visual pigments and their photochemistry. Photobiologists will find the book invaluable.

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