



The Biology of Amoeba (Cell biology)

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The Biology of Amoeba discusses the general biology, morphology, movement and related phenomena, and biochemical and physiological studies of amoeba. This book is organized into five parts, encompassing 21 chapters that primarily focus on large free-living amoeba.

After briefly discussing the highlights of studies involving amoeba, the book goes on describing the biological aspects of amoeba, including its taxonomy, phylogeny, culture, and maintaining methods. The second part describes the general morphology, ultrastructure, and cellular membrane of amoeba. The third part includes discussions on the movement of Chaos-Amoeba group; the amoeboid behavioral and motile responses; the molecular mechanism of amoeboid movement and cytoplasmic streaming; and the mechanism of endocytosis in the freshwater amoeba. Part 4 covers the effects of various groups of mutagens, antibiotics, radiation, and high pressure on phenotype change and cell activities of amoeba. The concluding part deals with the isolation and purification of amoeba's nucleic acids, as well as physical and chemical characterizations of these compounds. This part also describes the characteristics of structural features of amoeba's cell surface and the chemistry of tripartite surface. Discussions on cell cycle, nucleocytoplasmic interactions, nuclear-nuclear interactions, genetics, and strain specificity in amoeba are also covered. The book is intended as a comprehensive literature source for students in cell biology as well as for those who are using amoeba as research organisms.



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