



Cell Biology of Physarum and Didymium V2: Differentiation, Metabolism, and Methodology

Henry C. Aldrich

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Cell Biology of Physarum and Didymium, Volume II: Differentiation, Metabolism, and Methodology summarizes important experimental research using Physarum and Didymium for developmental and cellular studies. This book is organized into three parts, encompassing 28 chapters that cover the differentiation, metabolism, and experimental techniques for cellular studies.

After presenting an introduction to some aspects of developmental biology, this volume describes the ultrastructure and physiology of sporulation, spore germination, encystment, excystment, spherulation, and spherule germination. This is followed by a discussion on regulatory events leading to morphogenesis and on biochemical, physiological, and structural data on the amoeboid stage. The second part focuses on metabolic aspects. This includes metabolic characteristics of myxomycetes; the formation of nucleotides in Physarum by de novo synthesis and from nucleic acid degradation products; and radiation and radiomimetic agents on myxomycete species. Considerable chapters in the concluding part are devoted to procedures and protocol for isolation of cell components from Physarum and Didymium species. This volume also evaluates some techniques, including electron microscopy, time-lapse microcinematography, phase-contrast microscopy, Feulgen staining, and culture methods. The concluding chapters examine the preparation, isolation, and characterization of ribonucleic acid, histone, plasmodial polysaccharides, myosin, actins, and fragmin. The book will serve as a frequent, single reference source to brief cell biologists on the primary research on Physarum and Didymium. It will also be a good source for graduate students in cell biology and perhaps in other graduate courses.

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