



**Development and Differentiation in the Cellular
Slime Moulds: Proceedings of the International
Workshop Held at Porto Conte, Sardinia on 12-16
April, 1977 (Developments in cell biology)**

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Developments in Cell Biology, Volume 1: Development and Differentiation in the Cellular Slime Moulds is a collection of papers from the proceedings of the International Workshop held at Porto Conte, Sardinia on April 12-16, 1977. This collection of papers deals with a single group of organisms, the cellular slime molds, particularly with *Dictyostelium discoideum*. *Dictyostelium* is dealt, firstly, according to cell differentiation and pattern formation common in this type of organism. These examples are further explored in the *Dictyostelium discoideum* slug, through the control of morphogenesis.

Further research shows that two compounds, 3'5' cyclic AMP and NH₃, can affect the course of morphogenesis in *D. discoideum*. Techniques for cell fusion and mutation induction in *D. discoideum*, especially as a result of DNA damage following radiation and chemicals, are analyzed. Other studies show that formation and maintenance of stable contacts between cells appear to be necessary for the normal cell cycle involved in the growth of *D. discoideum*. The changes in plasma membrane protein analyzed using SDS-polyacrylamide gel electrophoresis are examined. Results show that detection and quantitation of tubulin in *Dictyostelium discoideum* is important when studying the differentiation processes of a wide range of cellular activities. Because many *D. discoideum* mutants fail to reach proper development, the method for selecting the aggregation of defective mutants of *D. discoideum* is emphasized.

This book is of interest to those whose work involves these organisms and to researchers, professors, and students whose disciplines are in Developmental Biology or Mycology.

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