

REGENERATION IN ANIMALS AND RELATED PROBLEMS

An International Symposium,
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Regeneration In Animal And Related Problems By Kiortsis

V. Kiortsis, S. Koussoulakos, H. Wallace



Regeneration In Animal And Related Problems By Kiortsis:

Nervous System Regeneration in the Invertebrates Stacia B. Moffet, 2012-12-06 Invertebrate animals represent a diversity of solutions to life's challenges. Success in a wide range of environments has been achieved by an almost bewildering range of invertebrate body forms. These body forms are reflected in the wonderful diversity of their nervous systems. Despite this apparent diversity, studies of the development of invertebrates and vertebrates are yielding common themes at the molecular level. Likewise, the phenomenon of neural regeneration is based upon properties intrinsic to neurons and responses to a remarkably conserved chemical language. This monograph focuses on the diversity and commonality of responses to neural injury. The rough and tumble of life may frequently damage some part of the body, particularly the appendages or sensory systems. The nervous system is usually involved in repair of other body systems and often may itself require repair. Some animals are particularly successful in regenerating the nervous system or body parts. We particularly marvel at these feats of regeneration because we human beings are not particularly successful despite our relatively long life and the advantages that would seem to accrue from such repair. It is no wonder that we would hope to learn the secrets of the more successful animals and strive to emulate them. Mechanisms of neural regeneration are often more accessible in invertebrates than in vertebrates because questions of specificity are more easily addressed using the identifiable neurons of the relatively simpler nervous systems of some invertebrates.

Principles of Regeneration Richard J. Goss, 2013-09-12 *Principles of Regeneration* focuses on the principles, methodologies, and changes involved in the process of regeneration. The book first underscores the nature of the nucleus in *Acetabularia*, enzyme effects, role of ribonucleic acid in morphogenesis and functions of the stentor. The text then takes a look at the turnover in hydroids and flatworms and regeneration blastema. Discussions focus on regeneration in hydra, interstitial cells, colonial hydroids, neoblasts, and morphogenetic fields. The publication surveys segmental addition in annelids and molting, metamorphosis, and regeneration in arthropods. The termination of regeneration, importance of nerves, morphogenesis, histogenesis of the regenerate, and role of the nerves are discussed. The manuscript also examines regeneration in fishes, amphibian limb, horns and antlers, and heads and tails. The manuscript is a dependable source of data for students of developmental biology, anatomy, and evolution, as well as teachers and researchers in biology and medicine.

Recent Trends in Regeneration Research V. Kiortsis, S. Koussoulakos, H. Wallace, 2012-12-06 Regeneration is the replacement of lost body parts by new outgrowths or by remodelling existing tissues. It has been studied for centuries. However, in recent years, important developments took place in this field too, owing to new sophisticated techniques and to novel theoretical concepts. Advances in Molecular Genetics, Biochemistry, Cell and Neurobiology, Immunology, to mention a few of them, are the main causes of this resurgence of interest in regeneration. As a consequence, more and more meetings and publications are devoted either exclusively or for a large part to basic and applied research of regenerative processes. Regenerationists are scattered in laboratories all over the world and accustomed to know

each other through exchange of reprints occasionally an encounter in a large conference tend now to form small groups even societies and to institutionalize their meetings Although the critical mass of scientists involved in regeneration research does not seem yet to be reached for an autonomous development of this sector regular and frequent meetings of experts appear useful even necessary Such a meeting was convened in Saronis near Athens Greece from 19 to 23 September 1988 and sponsored by the NATO Science Committee and the University of Athens The present volume contains the contributions to this Advanced Research Workshop on Recent Trends in Regeneration Research About 50 biologists from different countries either members of the Alliance or outside it U R S S India Egypt Switzerland Sweden took part mostly as invited speakers

Spiralian Embryology, 1972

The Cell Surface in Embryogenesis and Carcinogenesis

Sanders, 1989-11-15 This book covers recent trends in the study of cell surfaces cell interactions and cell behavior during selected events in development and cancer It relates current thrusts in molecular biology to more cellular aspects of these fields and draws parallels between advances in developmental biology malignant invasiveness wound healing and regeneration The book opens with a discussion of a number of developmental events stressing the importance of the cell surface and extracellular matrix to morphogenesis cell locomotion and invasiveness Basement membranes are discussed in terms of their activity as substrata for cell movement barriers to invasion and their role in epithelial mesenchymal interactions These aspects of cell cell and cell matrix interaction are directly compared with developmental and neoplastic events emphasizing the epithelial to mesenchymal transformations that are common to both of these situations Other topics discussed include cell surface considerations cell cell adhesion cell substratum adhesion as well as a discussion regarding how these topics are relevant to the cell biology of wound healing and regeneration This book is ideal for researchers and students in biology cell biology biochemistry molecular biology anatomy zoology and medicine *Biology Bulletin of the Academy of Sciences of the USSR. Akademii nauk SSSR.*, 1985 *Advances in Morphogenesis* M. Abercrombie, Jean Brachet, Thomas J. King, 2013-10-22 *Advances in Morphogenesis* Volume 9 provides an overview of the state of knowledge in morphogenesis The book contains seven chapters and begins with a study of the interactions that occur in the morphogenesis of higher plants This is followed by separate chapters on the regulatory mechanisms and cellular interactions in the development of annelids and mollusks morphogenetic factors in limb ontogeny and limb regeneration primary induction in birds and the organogenesis and arrangement of cutaneous appendages in birds Subsequent chapters deal with avian gastrulation and macromolecular syntheses and nucleocytoplasmic interactions in early development **Chemical Zoology**

V4 Marcel Florkin, 2012-12-02 *Chemical Zoology* Volume IV Annelida Echiura and Sipuncula presents chemical information on zoological significance of Annelida Echiura and Sipuncula This book is organized into 13 chapters that tackle the biological and biochemical aspects of these phyla The opening chapter describes the comparative anatomy phylogeny and classification of Annelida Echiura and Sipuncula The book goes on discussing the biological aspects of these phyla including

nutrition and digestion respiration and energy metabolism oxygen transport and carbohydrate and nitrogen metabolism This volume also covers these organisms composition of guanidine compounds and phosphagens lipids inorganic components and pigments Other chapters deal with the growth and development luminescence endocrines and pharmacologic properties of Annelida Echiura and Sipuncula This book is an invaluable resource for zoologists and biochemists Vertebrate Limb and Somite Morphogenesis British Society for Developmental Biology,1977-12-22 Principles of Regenerative Biology Bruce M. Carlson,2011-10-10 With the explosion of knowledge from molecular biology and the burgeoning interest in generating or regenerating tissues or organs through various bioengineering or stem cell approaches many scientists and students have shown a renewed interest in the phenomenon of regeneration Because relatively few have had the luxury of being able to approach the phenomenon of regeneration from a broad biological perspective Dr Carlson has produced a book that outlines the fundamental principles of regeneration biology Subject matters focus principally on regeneration in vertebrate systems but also invertebrate regeneration In order to manipulate regenerative processes it is important to understand the underlying principles of regeneration Principles of Regenerative Biology is the key introductory reference for all developmental biologists geneticists and tissue and stem cell researchers Creates a general understanding of one of the most fascinating and complex phenomena in biology Discusses the ability and diversity of regeneration in various organisms Explains the history and origins of cells in regenerating systems Includes information on stem cells and its important role in regeneration

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