

# ANIMAL SPECIES FOR DEVELOPMENTAL STUDIES

VOLUME I  
Invertebrates



Edited by  
T. A. Dentlaff and S. G. Vassotzky

# Animal Species For Developmental Studies Invertebrates

**National Council on Marine Resources  
and Engineering Development (U.S.)**

## **Animal Species For Developmental Studies Invertebrates:**

*Animal Species For Developmental Studies* T.A. Dettlaff, Sergei G. Vassetzky, 2012-12-06 This volume is a revised and augmented edition of part of the book *Obekty Biologii Razvitiya* Animal Species for Developmental Studies published in Russian in 1975 in the series of monographs *Problemy Biologii Razvitiya* Problems of Developmental Biology by Nauka Publishers Moscow That book described the development of organisms most frequently used in developmental biology studies Data were provided for 22 animal species belonging to different taxa from protists to mammals For the English edition we decided to divide the original book into two parts dealing with vertebrates and invertebrates respectively This volume deals with vertebrate species When choosing these species their advantages for laboratory studies information available and availability for experimentation in the USSR and in Europe were taken into account This geographical criterion explains the absence in the book of a number of species widely used in the laboratories of the USA Japan and other countries such as *Rana pipiens* *Cynops pyrrhogaster* and others Besides the classical laboratory animals some fish have been described since the study of the mechanisms of their development and attempts to control their ontogenesis are of immediate value and the results obtained can be tested on the mass material A study of the development of laboratory mammals is of special interest since current problems of modern medicine and veterinary sciences are tackled using these animals *Animal Species for Developmental Studies* Tatiana Antonovna Dettlaff, S.G. Vassetzky, 1990-01-31 *Animal Species for Developmental Studies* T.A. Dettlaff, Sergei G. Vassetzky, 2012-12-06 This volume comprises normal tables description of normal development for protozoa and invertebrates widely used in developmental biology studies The species chosen reflect their advantages for laboratory studies the information available and their availability for experimentation Chapter 11 which contains the normal tables for the starfish *Asterina pectinifera* was written specially for this edition which is the invertebrate section of the revised and augmented translation of *Obekty Biologii Razvitiya* published in Russian in 1975 as a volume in the series of monographs *Problemy Biologii Razvitiya* Problems of Developmental Biology by Nauka Publishers Moscow The description of every species is preceded by an introduction in which the advantages of working with the particular animal are stated and the problems studied with the main references are outlined Data are also provided on its taxonomic status and distribution of the animal and conditions of keeping the adult animals in laboratory Methods of obtaining gametes methods of artificial fertilization methods of rearing embryos and larvae and tables of normal development are also given **Animal Species for Developmental Studies** Tat'iāna Antonovna Dettlaff, Sergei G. Vassetzky, 1990-01-31 This volume comprises normal tables description of normal development for protozoa and invertebrates widely used in developmental biology studies The species chosen reflect their advantages for laboratory studies the information available and their availability for experimentation Chapter 11 which contains the normal tables for the starfish *Asterina pectinifera* was written specially for this edition which is the invertebrate section of the revised and augmented translation of *Obekty Biologii Razvitiya* published

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**Animal Species for Developmental Studies** Tat'jana A. Detlaf, 1990

**Fertilization in Protozoa and Metazoan Animals** Juan J. Tarín, Antonio Cano, 2012-12-06

Reproduction is the origination of new organisms from pre-existing ones Among more than 35 separated forms of reproduction including several types of gamogony parthenogenesis agamogenesis fission and division and plasmotomy the bisexual mode of reproduction via fertilization provides genetic variability that allows species to adapt quickly to competitive and constantly changing environments Several excellent reviews and books have been written in the past to analyse the mechanisms of fertilization in different eukaryotic species During the last few years however renewed attention has been paid to examining the process of oocyte fertilization at the cellular molecular level not only within a single species group but also through different phylogenetic lineages As a result of this effort knowledge of the molecular pathways used by oocytes and spermatozoa at fertilization has increased but still many questions remain to be answered Being aware of the necessity of providing an integrated view of the process of fertilization this book has been entirely devoted to reviewing the process of oocyte fertilization at the cellular molecular level in two different and separated groups of eukaryotic organisms protozoa and metazoan animals The book is organized into six sections dealing with oocyte fertilization in protozoa invertebrates teleost fishes amphibians birds and mammals These sections are followed by a summary concluding chapter that provides a comparative overview of the process of fertilization in these groups of eukaryotes

**On the Way to Understanding the Time Phenomenon** A. P. Levich, 1995

The subject of this book is time one of the small number of elusive essences of the world unshaped by human will The three global problems of natural science those of the origin of the Universe life and consciousness cannot be solved without finding out the nature of time Without a good construction of time it is impossible to describe to qualify to forecast and to control various processes in the animate and inanimate nature Special attention is paid to the ways of adequate inclusion of the properties of time in the derivation of the fundamental equations of motion for natural systems

*Environmental Health Perspectives*, 2003-07

**On The Way To Understanding The Time Phenomenon: The Constructions Of Time In Natural Science, Part 1** A P Levich, 1995-06-30

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to the ways of adequate inclusion of the properties of time in the derivation of the fundamental equations of motion for natural systems

**Sturgeon Fishes** Tatiana A. Dettlaff, Anna S. Ginsburg, Olga I. Schmalhausen, 2012-12-06 This book is the first comprehensive description of development of the Acipenserid fish published in the English language It contains the results of more than 40 years of studies by the authors and their colleagues My own life in science has been intimately related both with the authors and the fish which are the subject of this book Therefore it gives me a great pleasure to present to the English reader an expanded version of the book Those interested in the history of biology must be well aware of the fact that genetics in the USSR was practically demolished by Lysenko at the session of the Lenin All Union Academy of Agricultural Sciences in 1948 However it is much less well known that other fundamental branches of biology were also persecuted at that time experimental embryology developmental mechanics among them As a result many embryologists including the authors of this book were forced to turn to more applied problems this being the only way to continue research They had to abandon amphibians and concentrate their efforts on sturgeon

**Sea Urchin** Maria Agnello, 2017-10-04 This book is addressed to the readers operating in the sea urchin field of research as well as to the lovers of this fascinating organism Sea urchin among the most known marine invertebrates belonging to the deuterostomes is more closely related to humans than other invertebrates thus representing a suitable model system not only for developmental biology and ecotoxicology but also for biomedicine The topics described highlight the validity and versatility of this organism for different kinds of investigations A collection of interesting chapters contributes to this volume and clearly shows the reason of the high interest manifested by a huge number of scientists around the world for this organism over time Each contribution is a separate and comprehensive chapter but within the book's aim

**Evolutionary Ecology of Marine Invertebrate Larvae** Tyler J. Carrier, Adam M. Reitzel, Andreas Heyland, 2018 Marine invertebrate larvae are an integral part of pelagic diversity and have stimulated the curiosity of researchers for centuries This book integrates the latest research in order to provide a modern synthesis of this interdisciplinary field

*Comparative Anatomy and Developmental Biology of Vertebrates* Mr. Rohit Manglik, 2024-03-04 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Biomedical Index to PHS-supported Research, 1990

**Invertebrate Reproduction and Development**, 1998

Marine Research, Fiscal Year 1968 National Council on Marine Resources and Engineering Development (U.S.), 1969

**The Lymnaeidae** Maxim V. Vinarski, Antonio A. Vázquez, 2023-11-29 The Lymnaeidae also known as pond snails are a species rich and globally distributed family of freshwater snails many species of which are known to be hosts of parasitic trematodes such as the liver fluke *Fasciola hepatica* Written by world leading experts in the field this book covers a wealth of topics ranging from the phylogeny and taxonomy of lymnaeid snails to their relationships with helminths and their impact on

public and veterinary health It provides an overview of the species richness evolution ecology biogeography and fossil record of the family A considerable number of chapters are devoted to the economic and medical importance of lymnaeids their involvement in the transmission of fascioliasis and other zoonotic diseases Special chapters deal with the molecular and morphological identification of the Lymnaeidae their rearing in the laboratory and experimental approaches to their study This contributed volume is aimed at experts and practitioners in various disciplines Invertebrate zoology evolutionary biology biogeography aquatic ecology parasitology epidemiology and public health It is also useful for university lecturers undergraduate and postgraduate students

#### **Development of Sea Urchins, Ascidians, and Other Invertebrate**

**Deuterostomes: Experimental Approaches**, 2004-11-16 This book provides a practical guide to experimental methods for studying the development invertebrate deuterostomes as animal model systems The chapters provide detailed experimental protocols that cover a broad range of topics in modern experimental methods Topics covered range from rearing embryos to the care of adult animals while also presenting the basic experimental methods including light and electron microscopy used to study gene expression transgenics reverse genetics and genomic approaches Covers a wide range of methods from classical embryology through modern genomics Discusses animals related to vertebrates providing a valuable evolutionary perspective Includes a practical guide to the use of sea urchins in the teaching laboratory

#### **AEC Research and**

**Development Report** Atomic Energy Commission, Frontiers in Developmental Biology Robert A. Meyers, 2019-04-02

Dieser aktuelle Band aus der renommierten enzyklopädischen Reihe ist der erste in vielen Jahren der alle wichtigen Aspekte der Entwicklungsbiologie vereint von der Morphogenese und Organogenese über die epigenetische Regulation der Genexpression bis hin zur evolutionären Entwicklungsbiologie Der Herausgeber hat ein herausragendes Team zusammengestellt das diese Themen beleuchtet und damit ein wegweisendes Werk für die kommenden Jahre geschaffen Das Ergebnis ist ein einzigartiges herausragendes Referenzwerk der Entwicklungsbiologie für Forscher Studenten und Fachexperten

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