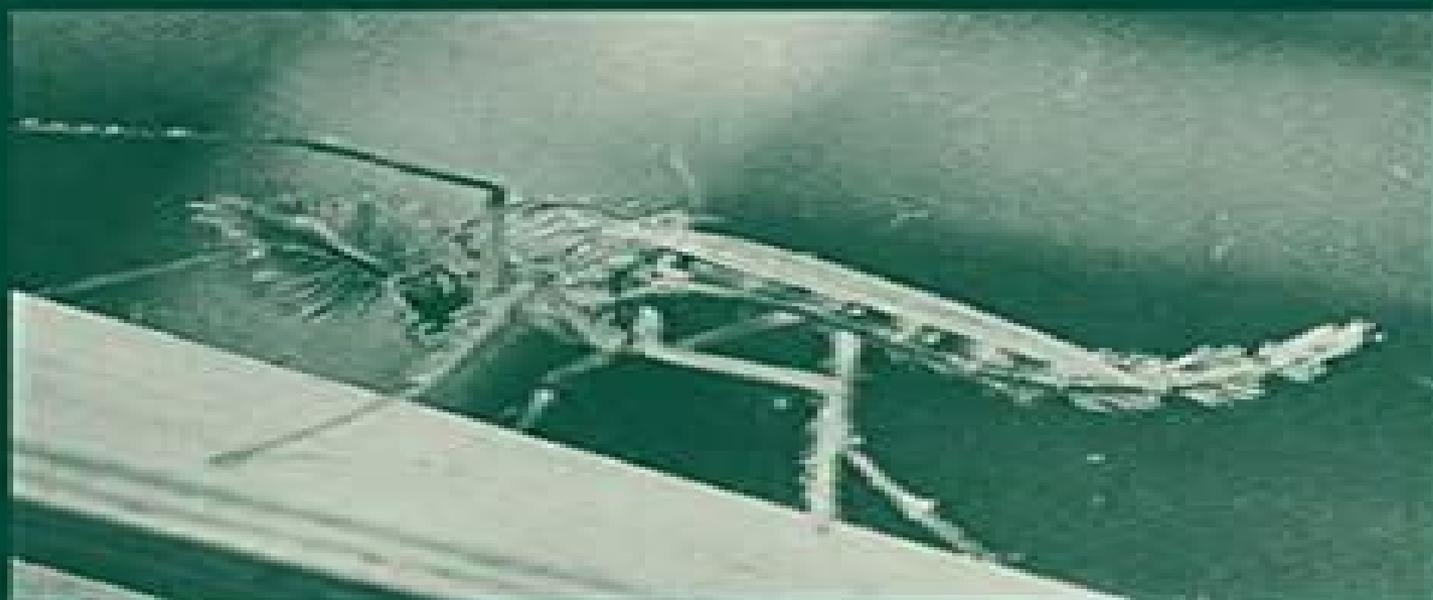


**ANIMAL SPECIES  
FOR  
DEVELOPMENTAL  
STUDIES**      **VOLUME 1**

**Invertebrates**



**Edited by  
T. A. Dettlaff and S. G. Vassetzky**

# Animal Species For Developmental Studies Invertebrates

**Tatiana Antonovna Dettlaff, S.G.  
Vassetzky**



## **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'jana A. Dettlaff, 1990

**Animal Species for Developmental Studies** Tat'iana 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

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**Frontiers in Developmental Biology** Robert A. Meyers, 2019-04-02 Dieser aktuelle Band aus der renommierten enzyklopedischen 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

**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

*Environmental Health Perspectives*, 2003-07

**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 un subdued 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      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

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