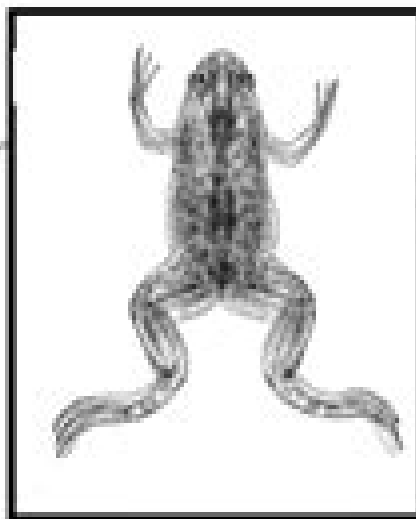


Metamorphosis

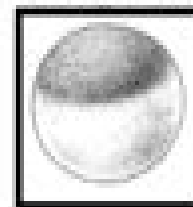
Prometamorphosis
(stage 59)



Adult
(stage 66)

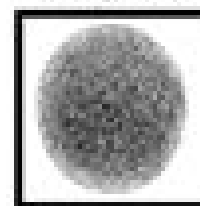


Egg
(stage 1)

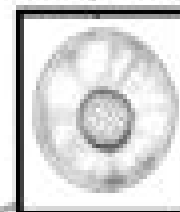


Cleavage

Blastula
(stage 8)

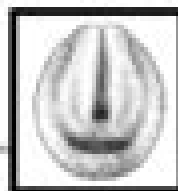


Gastrula
(stage 11)



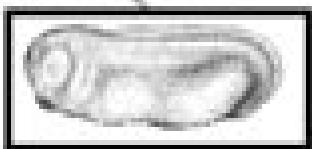
Gastrulation

Neurula
(stage 19)



Organogenesis

Tailbud embryo
(stage 24)



Free-swimming embryo
(stage 45)



Biology Of Xenopus

Bryan T. Grenfell



Biology Of Xenopus:

Xenopus laevis: Practical Uses in Cell and Molecular Biology, 1992-02-03 This volume presents the first comprehensive treatment of the wide range of uses for *Xenopus laevis* oocytes and embryos in cell and molecular biology. Each chapter includes background information, experimental protocols, and suggested applications. An extensive array of techniques is featured. The authors are experienced researchers who have written chapters that will be useful to both experienced researchers and to those new to *Xenopus* as an experimental system. Full color plates and diagrams enhance the educational value of this book, which provides a valuable permanent resource for all laboratories that use *Xenopus*. Features approximately twenty full color plates illustrating experimental techniques and results and depicting embryonic development. Provides complete coverage of *Xenopus laevis* as an experimental system, including Embryonic development, genetics, and laboratory care. Up to date protocols for experimental techniques using oocytes and embryos. General information listing recipes, suppliers, sequences, codons, and clones. *The Biology of Xenopus* R. C. Tinsley, H. R. Kobel, Zoological Society of London, 1996. *Xenopus*, the African clawed frog, is one of the three most widely cited vertebrate animals in the biological literature, yet almost all knowledge is based on laboratory experience of a single species, *Xenopus laevis*, from South Africa. Despite the occurrence of these frogs in habitats ranging from rainforest to semi desert and from lowland swamps to alpine lakes in sub-Saharan Africa, the rest of the genus was until recently considered relatively uniform and uninteresting. During the past twenty years, field research has transformed our knowledge of these animals in their natural environment, and currently seventeen species are recognized. This book is the first attempt to describe their biology and natural history. The first five chapters cover systematics, ecology, distribution, and species interactions. The second section covers behaviour, sensory perception, and development. The next section focuses on infections and defence, followed by a final group of chapters on evolutionary and phylogenetic aspects. The aim of this volume is to provide a reference work for researchers working with *Xenopus* in the lab and to highlight for them and others the potential of *Xenopus* for future work in evolutionary biology, genetics, behaviour, immunology, parasitology, and ecology. **Xenopus Development** Malgorzata Kloc, Jacek Z. Kubiak, 2014-03-19 Frogs from the genus *Xenopus* have long been used as model organisms in basic and biomedical research. These frogs have helped unlock key fundamental developmental and cellular processes that have led to important scientific breakthroughs and have had practical application in embryology, cancer research, and regenerative medicine. *Xenopus Development* is a vital resource on the biology and development of these key model organisms and will be a great tool to researchers using these frogs in various disciplines of biological science. *Xenopus Development* is divided into four sections: the first three highlight key processes in *Xenopus* development from embryo to metamorphosis. These sections focus on the cellular processes, organogenesis, and embryo development. The final section highlights novel techniques and approaches being used in *Xenopus* research. Providing thorough and detailed coverage, *Xenopus Development* will be a timely and

welcome volume for those working in cell and molecular biology genetics developmental biology and biomedical research Provides broad overview of the developmental biology of both *Xenopus laevis* and *Xenopus tropicalis* Explores cellular to systems development in key biomedical model organisms Timely synthesis of the field of *Xenopus* biology Highlights key biomedical and basic biological findings unlocked by *Xenopus* *Molecular Methods in Developmental Biology* Matt Guille, 2008-02-03 The process whereby a single cell the fertilized egg develops into an adult has fascinated for centuries Great progress in understanding that process has been made in the last two decades when the techniques of molecular biology have become available to developmental biologists By applying these techniques the exact nature of many of the interactions responsible for forming the body pattern are now being revealed in detail Such studies are a large and it seems ever expanding part of most life science groups It is at newcomers to this field that this book is primarily aimed A number of different plants and animals serve as common model organisms for developmental studies In *Molecular Methods in Developmental Biology* *Xenopus* and Zebrafish a range of the molecular methods applicable to two of these organisms are described these are the South African clawed frog *Xenopus laevis* and the zebrafish *Brachydanio rerio* The embryos of both of these species develop rapidly and externally making them particularly suited to investigations of early vertebrate development However both *Xenopus* and zebrafish have their own advantages and disadvantages *Xenopus* have large robust embryos that can be manipulated surgically with ease but their pseudotetraploidy and long generation time make them unsuitable candidates for genetics This disadvantage may soon be overcome by using the diploid *Xenopus tropicalis* and early experiments are already underway The transparent embryos of zebrafish render them well suited for in situ hybridization and immunohistochemistry and good for observing mutations in genetic screens *Atlas of Xenopus Development* G. Bernardini, M. Prati, E. Bonetti, G. Scari, 2013-06-29 Developmental biology attracts scientists from many different areas of biology and the amphibian *Xenopus* holds a special place among the organisms studied as a model of vertebrate development Until now no recently published atlas existed to aid researchers and students coming to the *Xenopus* embryo for the first time The present book satisfies this need With its synthesizing approach and its generous provision of beautiful scanning transmission and light microscopy images this unique volume will be a standard reference not only for developmental biologists but for all students of embryology histology and comparative anatomy **Xenopus** Abraham Fainsod, Sally A. Moody, 2022-04-19 This book focuses on the amphibian *Xenopus* one of the most commonly used model animals in the biological sciences Over the past 50 years the use of *Xenopus* has made possible many fundamental contributions to our knowledge in cell biology developmental biology molecular biology and neurobiology In recent years with the completion of the genome sequence of the main two species and the application of genome editing techniques *Xenopus* has emerged as a powerful system to study fundamental disease mechanisms and test treatment possibilities *Xenopus* has proven an essential vertebrate model system for understanding fundamental cell and developmental biological mechanisms for applying

fundamental knowledge to pathological processes for deciphering the function of human disease genes and for understanding genome evolution

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Early Development of *Xenopus laevis* Hazel L. Sive, Robert M. Grainger, Richard M. Harland, 2000 Amphibian embryos are supremely valuable in studies of early vertebrate development because they are large handle easily and can be obtained at many interesting stages And of all the amphibians available for study the most valuable is *Xenopus laevis* which is easy to keep and ovulates at any time of year in response to simple hormone injections *Xenopus* embryos have been studied for years but this is a particularly exciting time for the field Techniques have become available very recently that permit a previously impossible degree of manipulation of gene expression in intact embryos as well as the ability to visualize the results of such manipulation As a result a sophisticated new understanding of *Xenopus* development has emerged which ensures the species continued prominent position among the organisms favored for biological investigation This manual contains a comprehensive collection of protocols for the study of early development in *Xenopus* embryos It is written by several of the field's most prominent investigators in the light of the experience they gained as instructors in an intensive laboratory course taught at Cold Spring Harbor Laboratory since 1991 As a result it contains pointers hints and other technical knowledge not readily available elsewhere This volume is essential reading for all investigators interested in the developmental and cell biology of *Xenopus* and vertebrates generally Many of the techniques described here are illustrated in an accompanying set of videotapes which are cross referenced to the appropriate section of the manual

***Xenopus* Development** Malgorzata Kloc, Jacek Z. Kubiak, 2014 Provides broad overview of the developmental biology of both *Xenopus laevis* and *Xenopus tropicalis*

***Xenopus* Protocols** X. Johné Liu, 2008-02-02 A collection of standard and cutting edge techniques for using *Xenopus* oocytes and oocyte egg extracts to reconstitute biological and cellular processes These readily reproducible methods take advantage of the oocyte's impressive protein abundance its striking protein translation capacity and its breathtaking possibilities for the assembly of infectious viral particles by single cell injection of multiple RNAs The authors focus on the versatility of frog oocytes and egg extracts in cell biology and signal transduction and cover all the major uses of oocyte extracts as experimental models

The UFAW Handbook on the Care and Management of Laboratory and

Other Research Animals Robert C. Hubrecht, James Kirkwood, 2010-01-19 The seminal reference on the care of laboratory and captive animals The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals is a must have for anyone working in this field The UFAW Handbook has been the definitive text since 1947 Written for an international audience it contains contributions from experts from around the world The book focuses on best practice principles throughout providing comprehensive coverage with all chapters being peer reviewed by anonymous referees As well as addressing the husbandry of laboratory animals the content is also of great value to zoos and aquaria Changes for the eighth edition Revised and updated to reflect developments since publication of the previous edition New chapters on areas of growing concern including the 3Rs phenotyping statistics and experimental design welfare assessment legislation training of people caring for lab animals and euthanasia All material combined into one volume for ease of reference This book is published on behalf of UFAW The Universities Federation for Animal Welfare with whom we also publish the UFAW Wiley Blackwell Animal Welfare Book Series This major series of books provides an authoritative source of information on worldwide developments current thinking and best practice in the field of animal welfare science and technology For details of all of the titles in the series see <http://www.wiley.com/go/uaw> **The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals** Huw Golledge, Claire Richardson, 2024-05-07 The latest edition of the seminal reference on the care and management of laboratory and research animals The newly revised ninth edition of The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals delivers an up to date and authoritative exploration on worldwide developments current thinking and best practices in the field of laboratory animal welfare science and technology The gold standard in laboratory and captive animal care and management references this latest edition continues the series tradition of excellence by including brand new chapters on ethical review the care of aged animals and fresh guidance on the care of mice rats corvids zebrafish and decapods The book offers introductory chapters covering a variety of areas of laboratory animal use as well as chapters on the management and care of over 30 different taxa of animals commonly utilised in scientific procedures and research around the world It also provides A thorough introduction to the design of animal experiments laboratory animal genetics and the phenotyping of genetically modified mice Comprehensive explorations of animal welfare assessment and the ethical review process Practical discussions of legislation and oversight of the conduct of research using animals from a global perspective In depth examinations of the planning design and construction of efficient animal facilities special housing arrangements and nutrition feeding and animal welfare The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals Ninth Edition is essential for laboratory animal scientists veterinarians animal care staff animal care regulatory authorities legislators and professionals working in animal welfare non governmental organizations **The Laboratory Xenopus sp.** Sherril L. Green, 2009-12-02 Even though Xenopus is one of the two most popular non mammalian animals used in biomedical research

its value in the lab suffers from a lack of standardization regarding their optimal care breeding and housing Filling the need for such a reference The Laboratory *Xenopus* sp provides researchers and lab managers with a practical step by step m

Ecology of Wildlife Host-Parasite Interactions Bryan T. Grenfell,1995 This new collection of articles edited by Bryan T Grenfell includes Factors affecting the evolution of virulence nematode parasites of fig wasps Maintenance of a microparasite infecting several host species in the Seregeti Wildlife disease and conservation in Hawaii pathogenicity of avian malaria *Plasmodium relictum* in experimentally infected Iiwi *Vestiaria coccinia* **Xenopus Protocols** STEFAN HOPPLER,Peter D Vize,2016-08-23 During the 20th century *Xenopus* has flourished as an accessible experimental model system for studying vertebrate biology The second edition of *Xenopus Protocols Post Genomic Approaches* expands upon the previous edition with novel approaches inspired by *Xenopus tropicalis* and the sequencing of its genome *Xenopus tropicalis* genomics and tractable genetics combined with the unique experimental advantages of *Xenopus laevis* and their distinctive phylogenetic position make them unique model systems for vertebrate embryonic development in the 21st century Written in the highly successful *Methods in Molecular Biology*™ series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Authoritative and practical *Xenopus Protocols Post Genomic Approaches Second Edition* provides a toolkit that will enable every laboratory to maximize the power of this extraordinary experimental system in the post genomic age **Invasive Biology of *Xenopus laevis* in Europe** Julien Courant,2017 Because of the current global biodiversity decline understanding the consequences of each threat on biodiversity is crucial for conservation biology Invasive species are among the main threats at the global scale and can locally imply harmful damages on ecosystems Studying the phenomena driving the effects and potential for expansion of these species appears as a crucial element to assess their long terms impacts In this study we focused our efforts on an invasive population of the African clawed frog *Xenopus laevis* in France to bring insight about the interactions of this population with its environment and to study the changes in resource allocation to the life history traits related to reproduction survival and dispersal probabilities during the range expansion of the population We studied the diet in the French invasive population and in other invasive and native populations and found that this species can expand by predating a narrow as well as a broad range of prey categories We also detected an impact of *X laevis* on the native amphibian community in France In the second section of the thesis we reported a decrease in reproductive investment and an increased dispersal allocation of resources at the range edge We finally studied population dynamics and detected a lower survival probability and density at the range core All these results combined suggest that the potential for long term impacts is important in France for *X laevis* as well as in other areas where the species has been or will be introduced

Essential Developmental Biology Jonathan M. W. Slack,Leslie Dale,2021-12-01 ESSENTIAL DEVELOPMENTAL BIOLOGY Discover the foundations of developmental biology with this up to date and focused resource from two leading

experts The newly revised Fourth Edition of Essential Developmental Biology delivers the fundamentals of the developmental biology of animals Designed as a core text for undergraduate students in their first to fourth years as well as graduate students in their first year the book is suited to both biologically based and medically oriented courses The distinguished authors presume no prior knowledge of development animal structure or histology The new edition incorporates modern single cell transcriptome sequencing and CRISPR Cas9 as well as other methods for targeted genetic manipulation The existing material has also been reorganized to provide for easier reading and learning for students The book avoids discussions of history and experimental priority and emphasizes instead the modern advances in developmental biology The authors have kept the text short and focused on the areas truly central to developmental biology Readers will benefit from the inclusion of such topics as A thorough discussion of the groundwork of developmental biology including developmental genetics cell signaling and commitment and cell and molecular biology techniques An exploration of major model organisms including *Xenopus* the zebrafish the chick the mouse the human *Drosophila* and *Caenorhabditis elegans* A treatment of organogenesis including postnatal development and the development of the nervous system mesodermal organs endodermal organs and imaginal discs in *Drosophila* A final section on growth stem cell biology evolution and regeneration Perfect for undergraduate students especially those preparing to enter teaching or graduate studies in developmental biology Essential Developmental Biology will also earn a place in the libraries of those in the pharmaceutical industry expected to be able to evaluate assays based on developmental systems

Sourcebook of Models for Biomedical Research P. Michael Conn, 2008-03-07 The collection of systems represented in Sourcebook of genomic programs although this work is certainly well Models for Biomedical Research is an effort to reflect the represented and indexed diversity and utility of models that are used in biomedicine Some models have been omitted due to page limitations That utility is based on the consideration that observations and we have encouraged the authors to use tables and made in particular organisms will provide insight into the genes to make comparisons of models so that observations workings of other more complex systems Even the cell not available in primary publications can become useful to cycle in the simple yeast cell has similarities to that in the reader humans and regulation with similar proteins occurs We thank Richard Lansing and the staff at Humana for Some models have the advantage that the reproductive guidance through the publication process mitotic development or aging cycles are rapid compared As this book was entering production we learned of the with those in humans others are utilized because individual loss of Tom Lanigan Sr Tom was a leader and innovator proteins may be studied in an advantageous way and that in scientific publishing and a good friend and colleague to have human homologs Other organisms are facile to grow all in the exploratory enterprise We dedicate this book to in laboratory settings or lend themselves to convenient analysis his memory We will miss him greatly

Animal Models in Eye Research , 2011-04-28 The eye is a complex sensory organ which enables visual perception of the world Thus the eye has several tissues that do different tasks One of the most basic aspects of eye

function is the sensitivity of cells to light and its transduction through the optic nerve to the brain. Different organisms use different ways to achieve these tasks. In this sense, eye function becomes a very important evolutionary aspect as well. This book presents the different animal models that are commonly used for eye research and their uniqueness in evaluating different aspects of eye development, evolution, physiology, and disease. Presents information on the major animal models used in eye research including invertebrates and vertebrates. Provides researchers with information needed to choose between model organisms. Includes an introductory chapter on the different types of eyes stressing possible common molecular machinery.

Laboratory Animal Medicine Lynn C. Anderson, Franklin M. Loew, Fred W. Quimby, 2002-06-20. A volume in the American College of Laboratory Animal Medicine series, this second edition has over 40% new material including the addition of six new topics and many others that are completely rewritten. The book comprehensively covers the biological and disease aspects of laboratory animal medicine while examining other aspects such as the biohazards associated with the use of animal experimentation and factors complicating the bioethics of animal research.

Xenopus Kris Vleminckx, 2018. This volume explores techniques used to study and experiment with *Xenopus* in order to model or understand human disease. The chapters in this book cover topics such as implementation of CRISPR/Cas9 and TALEN in *Xenopus* from the design stage up to the genotyping stage, methods to explore generation of knock-in animals, cancer modelling, and in vivo screening of congenital heart disease, electroporation, and phenotyping at the organismal, cellular, and proteome level. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

Cutting edge and comprehensive *Xenopus* Methods and Protocols is a valuable resource for researchers who are interested in expanding their knowledge of this wide and developing field. This book will aid in keeping *Xenopus* at the forefront for biochemical, cell biological, and developmental studies and forward it as a preclinical disease model.

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