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development movie - from gastrulation to 24 hours Beautiful imaging of zebrafish development *Development of alpha-bungarotoxin immobilized zebrafish embryo* ZEISS Lightsheet Z.1 - Zebrafish embryo, MultiView fluorescence imaging Zebrafish embryo development—24 hours in 46 seconds Cell Lineage Reconstruction of Zebrafish Embryo Development Atlas Of Zebrafish Development

Description Atlas of Early Zebrafish Brain Development: A Tool for Molecular Neurogenetics, Second Edition, remains the only neuroanatomical expression atlas of important genetic and immunohistochemical markers of this vertebrate model system.

Atlas of Early Zebrafish Brain Development | ScienceDirect
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The Atlas of Zebrafish Development. One of the projects of the Imaging and Bioinformatics Group at the LIACS is the production of a 3D digital atlas of zebrafish development. Starting point of the 3D reconstructions are sets of serial sections, that consist of microscope images. To acquire these images a computerised microscope set-up is being used.

Atlas of Zebrafish Development - Leiden University
Atlas of Early Zebrafish Brain Development: A Tool for Molecular Neurogenetics, Second Edition, remains the only neuroanatomical expression atlas of important genetic and immunohistochemical markers of this vertebrate model system.

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For the first time, this atlas provides the research community with a complete reference for zebrafish anatomy spanning the early embryo all the way to adulthood. The authors employ the technique

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of optical projection tomography (OPT), and offer a series of sections in multiple planes from each sample.

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Summary : Atlas of Early Zebrafish Brain Development: A Tool for Molecular Neurogenetics, Second Edition, remains the only neuroanatomical expression atlas of important genetic and immunohistochemical markers of this vertebrate model system. It represents a key reference and interpretation matrix for analyzing expression domains of genes involved in Zebrafish brain development and neurogenesis, and serves as a continuing milestone in this research area.

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This Atlas will be an essential reference for researchers in a range of disciplines, both academic and commercial, working with zebrafish as a model system for development and/or human disease. It will also be useful as a resource for students in developmental biology, molecular genetics, toxicology, anatomical physiology, embryology, etc.

Atlas of Zebrafish Development - 1st Edition

To address this knowledge gap, we produced an Atlas using single-cell RNA-sequencing methods to investigate gene expression from the pharyngula to early larval stages in developing zebrafish. Our single-cell transcriptome Atlas encompasses transcriptional profiles from 44,102 cells across four days of development using duplicate experiments that confirmed high reproducibility.

A Single-Cell Transcriptome Atlas for Zebrafish Development

Atlas of Zebrafish Development Book Review: Zebrafish are widely considered an excellent model system for vertebrate development. The embryo is transparent, thereby enabling visualization and use of labelling and transgenic approaches.

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The atlas of zebrafish organogenesis presented here is a tool for researchers to investigate gene expression, developmental trajectories, and identify cell types in developing zebrafish. Our profiling of 44,102 cells spanning one to five days post fertilization provide transcriptional insight into how all of the major organs form in this vertebrate system.

A single-cell transcriptome atlas for zebrafish development
ZFIN Atlas of Zebrafish Anatomy Anatomy of the 24, 48, 72 and 120 hours Zebrafish (*Danio rerio*) Embryo This collection of sections through zebrafish embryos at four different stages of development is thought to provide some help to understand how the zebrafish embryo looks inside. Thin section in Araldite were stained with methylene blue.

ZFIN Atlas of Zebrafish Anatomy

The Vascular Anatomy of the Developing Zebrafish: An Atlas of Embryonic and Early Larval Development Sumio Isogai,^{*},[†] Masaharu Horiguchi,[†] and Brant M. Weinstein^{*,1} ^{*}Laboratory of Molecular Genetics, NICHD, NIH, Building 6B, Room 309, 6 Center Drive, Bethesda, Maryland 20892; and [†]Department of Anatomy, School of Medicine, Iwate Medical University, Morioka 020–8505, Japan

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We have constructed a 3D digital atlas of zebrafish development based on histology; the atlas is series of volumetric models; in each instance, every volume element is assigned to an anatomical...

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Models of zebrafish development may be virtually sectioned, viewed as 3D renderings, or downloaded. Vascular anatomy web

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site Weinstein laboratory, NIH. Histology and Histopathology Atlas of the Zebrafish V2.01 A collection of images explaining the histology and toxicological pathology of the zebrafish with a focus on endocrine disruption. Leo van der Ven and Piet Wester National Institute for Public Health and the Environment Netherlands.

Anatomy Atlases and Resources - Zebrafish Information Network
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