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The Zebrafish: Cellular and Developmental Biology, Part A

This volume of Methods in Cell Biology, the first of two parts on the subject of zebrafish, provides a comprehensive compendia of laboratory protocols and reviews covering all the new methods

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developed since 1999. This first volume provides state-of-the-art descriptions of novel cellular imaging technologies and methods for culture of zebrafish stem cells, summarizes protocols for analyzing the development of major organ systems including the central nervous system (CNS), and introduces the ...

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**The Zebrafish: Cellular and
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The Zebrafish: Cellular and
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Developmental Biology (Volume 134)
(Methods in Cell Biology (Volume 134))
4th Edition. by H. William Detrich III
(Editor), Monte Westerfield (Editor),

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The Zebrafish: Cellular and Developmental Biology Part B

Description. The Zebrafish: Cellular and Developmental Biology, Part B Developmental Biology, the second volume on the topic in the Methods in Cell Biology series, looks at methods for analyzing cellular and developmental

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biology of zebrafish. Chapters cover such topics as cell biology and developmental and neural biology.

The Zebrafish: Cellular and Developmental Biology, Part B ...

The Zebrafish: Cellular and
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H. William Detrich III, Monte Westerfield,

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... Analysis of Cell Proliferation,
Senescence, and Cell Death in Zebrafish
Embryos. Daniel Verduzco, James F.
Amatruda. Pages 19-38 Download PDF.
Chapter preview. ... Morphogenesis of
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The zebrafish (*Danio rerio*) is a popular vertebrate model organism to investigate molecular mechanisms driving development and disease. Due to its transparency at embryonic and larval stages, investigations in the living organism are possible with subcellular resolution using intravital microscopy.

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The beneficial optical characteristics of zebrafish not only allow for passive observation, but ...

Non-neuromodulatory Optogenetic Tools in Zebrafish

Developmental Landmarks: Anatomy:
Zygote (0 - 0.75 h) 1-cell: 0.00 h:
Cytoplasm streams toward animal pole

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to form blastodisc: Browse AO: Cleavage
(0.75 - 2.25 h) 2-cell: 0.75 h: Partial
cleavage: Browse AO: 4-cell: 1.00 h: 2 X
2 array of blastomeres: Browse AO:
8-cell: 1.25 h: 2 X 4 array of
blastomeres: Browse AO: 16-cell: 1.50 h:
4 X 4 ...

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ABSTRACT We describe a series of stages for development of the embryo of the zebrafish, *Danio (Brachydanio) rerio*. We define seven broad periods of embryogenesis—the zygote, cleavage, blastula, gastrula, segmentation, pharyngula, and hatching periods.

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**Stages of Embryonic Development
of the Zebrafish**

Wittkopp N, Huntzinger E, Weiler C,
Saulière J, Schmidt S, Sonawane M, et al.

Nonsense-mediated mRNA decay
effectors are essential for zebrafish
embryonic development and survival.

Mol Cell Biol. 2009 Jul;29(13):3517-28.
pmid:19414594 . View Article

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Zebrafish *rbm8a* and *magoh* mutants reveal EJC developmental

...

development of zebrafish embryos at single-cell resolution. Furthermore, we highlight the power of this analysis to assign new cell-type or developmental

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stage-specific expression information to many genes, including those that are currently known only by sequence and/or that lack expression information

A single-cell transcriptome atlas for zebrafish development.

Zebrafish is a powerful vertebrate system to study myelination using both

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forward and reverse genetic approaches, in vivo analysis during development and repair, and for performing drug screens to uncover novel drivers of myelination and remyelination. From: Methods in Cell Biology, 2017

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Description The Zebrafish: Cellular and Developmental Biology, Part A Cellular Biology, is the latest edition in the Methods in Cell Biology series that looks at methods for analyzing cellular and developmental biology of zebrafish. Chapters cover such topics as cell biology and developmental and neural

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This first volume provides state-of-the-art descriptions of novel cellular imaging technologies and methods for culture of zebrafish stem cells, summarizes protocols for analyzing the development

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of major organ systems including the central nervous system (CNS), and introduces the use of the zebrafish as a model system for human diseases.

The Zebrafish: Cellular and Developmental Biology, Volume ...

Cell ablation is a powerful method for elucidating the contributions of

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individual cell populations to embryonic development and tissue regeneration. Targeted cell loss in whole organisms has been typically achieved through expression of a cytotoxic or prodrug-activating gene product in the cell type of interest. This approach depends on the availability of tissue-specific promoters, and it ...

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**Targeted cell ablation in zebrafish
using optogenetic ...**

This first volume provides state-of-the-art descriptions of novel cellular imaging technologies and methods for culture of zebrafish stem cells, summarizes protocols for analyzing the development of major organ systems including the

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central nervous system (CNS), and introduces the use of the zebrafish as a model system for human diseases.

The Zebrafish: Cellular and Developmental Biology, Part A ...

Zebrafish are also popular outside of developmental biology, and are particularly well-suited for neuroscience

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investigations. For example, neuronal activity can be tracked in whole brains of swimming, actively learning larvae, providing unprecedented views into cognitive processes like decision making (Kim et al, 2017).

Advancing Biology with Zebrafish: Genetic Tools for ...

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A previously undescribed protein produced by certain resident intestinal bacteria induces zebrafish pancreatic beta cell expansion.

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