

Module 1: Where do I start? (ZFIN)

ii - ZFIN, The Zebrafish Model Organism Database

Aims

- Introduce ZFIN web site
- Suggest starting points for different types of queries
- Describe methods for contacting ZFIN

Introduction

ZFIN provides the centralized location for the curation and integration of zebrafish genetic, genomic and phenotypic data. Data are updated daily by the ZFIN curatorial staff who extract relevant information from your publications. Large datasets submitted by zebrafish labs, routine data exchanges with organizations such as NCBI, the Sanger Institute and Swiss-Prot, as well as data submissions from individual investigators provide additional data for ZFIN. ZFIN also participates with the Sanger Institute in annotation of the whole genome sequence.

ZFIN Home Page

Query forms for mutants, genes, markers, clones, mapping and gene expression data facilitate integrated analysis of these data. These forms are available from the ZFIN home page, <http://zfin.org>,

As you scroll down the ZFIN home page, take note of the links to query forms for:

- Mutants/Transgenes
Search by name, map location, mutation type or phenotype
- Genes/Markers/Clones
Search by name, accession number, LG, vector or sequence type
- Gene Expression
Search by gene name, mutant background, author, developmental stage, anatomical structure or knockdown reagent gene name.
- Genetic Map
Generate an integrated view of mapping panels or a consolidated map.
- Anatomy
Browse the zebrafish anatomical dictionary with links to gene expression data.

Genes

- Function
- Protein Families and Domains
- Probes
- Expression Patterns
- Orthologues
- Sequence Data
- Mapping Data

Mutants and Transgenes

The screenshot shows the ZFIN website with the following sections highlighted:

- Mutants / Transgenics**: Search for mutations / transgenic lines by gene name, map location or phenotype.
- Wild-Type Stocks**: Zebrafish wild-type lines.
- Genes / Markers / Clones**: Search for genes, markers and clones by name, accession number, LG, vector type or sequence type.
- Gene Expression**: Search for gene expression patterns by gene name, developmental stage, anatomical structure, developmental or physiological process.
- Genetic Maps**: Generate graphical views of genetic, radiation hybrid or consolidated maps.
- Mapping Panels**: Summary listing of zebrafish mapping panels.
- Accession #**: Search ZFIN by data accession number.
- Publications**: Search for zebrafish research publications by author, title or citation.
- Anatomy**: Search the zebrafish anatomical ontology.
- People**: Search for zebrafish researchers by name or address.
- Laboratories**: Search for laboratories by name, address or research interests.
- Companies**: Search for companies supplying zebrafish reagents.

Other highlighted areas include:

- Gene Expression Patterns**: Points to the Gene Expression section.
- Graphical representation mapping panels**: Points to the Mapping Panels section.
- Zebrafish Research Community Contact Information**: Points to the People and Laboratories sections.
- Anatomical Dictionary with links to associated gene expression patterns**: Points to the Anatomy section.

The website also features a navigation menu on the left with categories like General Information, Genomics, and Nomenclature, and a login form at the bottom.

Gene Expression Patterns

Graphical representation mapping panels

Anatomical Dictionary with links to associated gene expression patterns

Zebrafish Research Community Contact Information



Links to additional resources are provided on the ZFIN home page side bar.

The image shows a screenshot of the ZFIN (Zebrafish Information Network) website. The page is divided into a left sidebar with navigation links and a main content area with various database categories. Several yellow callout boxes with black text and arrows point to specific features:

- Send questions and suggestions to ZFIN**: Points to the 'About ZFIN' link in the General Information section.
- Download ZFIN data files for use in Excel or other databases**: Points to the 'Download Data' link in the General Information section.
- Meetings and Jobs**: Points to the 'Meetings / Jobs' link in the Information and News section.
- Zebrafish Newsgroup**: Points to the 'Zebrafish Newsgroup' link in the Information and News section. The box contains:
 - Submit questions
 - Share protocols
- Nomenclature guidelines**: Points to the 'Nomenclature' link in the Nomenclature section.
- Zebrafish International Resource Center**: Points to the 'Zebrafish Resource Center' link in the sidebar. The box contains:
 - Order Fish, Probes
 - Submit Lines
 - Pathology Services

The main content area includes sections for: Mutants / Transgenics, Wild-Type Stocks, Genes / Markers / Clones, Gene Expression, Genetic Maps, Mapping Panels, Accession #, Publications, Anatomy, People, Laboratories, and Companies. A 'Log in' button is visible in the top right of the main content area.

Contacting ZFIN

ZFIN is your database. We welcome your comments and suggestions. Please use the **Contact Us** on our home page or the **Your Input Welcome** button provided on every data page to contact us.