

# Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](http://FDI Lab - SciCrunch.org) on Mar 29, 2025

## Xenbase

RRID:SCR\_003280

Type: Tool

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### Proper Citation

Xenbase (RRID:SCR\_003280)

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### Resource Information

**URL:** <http://www.xenbase.org/>

**Proper Citation:** Xenbase (RRID:SCR\_003280)

**Description:** Data collection for *Xenopus laevis* and *Xenopus tropicalis* biology and genomics.

**Abbreviations:** XenBase

**Synonyms:** Xenbase: *Xenopus laevis* and *tropicalis* biology and genomics resource

**Resource Type:** data repository, data or information resource, storage service resource, database, atlas, image repository, service resource

**Defining Citation:** [PMID:23125366](#), [PMID:19884130](#), [PMID:36755307](#)

**Keywords:** molecular neuroanatomy resource, dna target, protein target, gene, genome, function, sequence, orthology, publication, gene expression, model organism, genomics, development, annotation, blast, development stage, publication, in situ hybridization, immunohistochemistry, video resource, organism-related portal, experimental protocol, organism supplier, data analysis service, developmental stage, gold standard, bio.tools, FASEB list

**Funding:** NICHD R01 HD045776;  
NICHD P41 HD064556

**Availability:** Restricted

**Resource Name:** Xenbase

**Resource ID:** SCR\_003280

**Alternate IDs:** biotools:xenbase, OMICS\_01665, nif-0000-01286

**Alternate URLs:** <http://www.xenbase.org/entry/>, <https://bio.tools/xenbase>

**License:** Creative Commons Attribution License

**License URLs:** <https://www.xenbase.org/entry/static-xenbase/aboutMOD.jsp>

**Record Creation Time:** 20220129T080218+0000

**Record Last Update:** 20250329T060227+0000

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## Ratings and Alerts

No rating or validation information has been found for Xenbase.

No alerts have been found for Xenbase.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 398 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](#).

El Mir J, et al. (2025) Xenopus as a model system for studying pigmentation and pigmentary disorders. *Pigment cell & melanoma research*, 38(1), e13178.

Bertolesi GE, et al. (2025) Interplay of Light, Melatonin, and Circadian Genes in Skin Pigmentation Regulation. *Pigment cell & melanoma research*, 38(1), e13220.

Hendrickson CL, et al. (2025) Foxi2 and Sox3 are master regulators controlling ectoderm germ layer specification. *bioRxiv : the preprint server for biology*.

Burns D, et al. (2024) XPR1: a regulator of cellular phosphate homeostasis rather than a Pi exporter. *Pflugers Archiv : European journal of physiology*, 476(5), 861.

Naert T, et al. (2024) Pythia: Non-random DNA repair allows predictable CRISPR/Cas9 integration and gene editing. *bioRxiv : the preprint server for biology*.

Sindelka R, et al. (2024) Characterization of regeneration initiating cells during Xenopus

laevis tail regeneration. *Genome biology*, 25(1), 251.

Satou-Kobayashi Y, et al. (2024) Zbtb11 interacts with Otx2 and patterns the anterior neuroectoderm in *Xenopus*. *PLoS one*, 19(7), e0293852.

Piekniejska A, et al. (2024) Do organisms need an impact factor? Citations of key biological resources including model organisms reveal usage patterns and impact. *bioRxiv* : the preprint server for biology.

Kostyanovskaya E, et al. (2024) Convergence of autism proteins at the cilium. *bioRxiv* : the preprint server for biology.

El Amri M, et al. (2024) Marcks and Marcks-like 1 proteins promote spinal cord development and regeneration in *Xenopus*. *eLife*, 13.

Popov IK, et al. (2024) The RhoGEF protein Plekhg5 self-associates via its PH domain to regulate apical cell constriction. *Molecular biology of the cell*, 35(10), ar134.

Grau-Bové X, et al. (2024) An amphioxus neurula stage cell atlas supports a complex scenario for the emergence of vertebrate head mesoderm. *Nature communications*, 15(1), 4550.

Hunt JE, et al. (2024) Ocular Necessities: A Neuroethological Perspective on Vertebrate Visual Development. *Brain, behavior and evolution*, 99(2), 96.

Hack SJ, et al. (2024) Temporal Transcriptomic Profiling of the Developing *Xenopus laevis* Eye. *bioRxiv* : the preprint server for biology.

Griffin C, et al. (2024) Sf3b4 mutation in *Xenopus tropicalis* causes RNA splicing defects followed by massive gene dysregulation that disrupt cranial neural crest development. *bioRxiv* : the preprint server for biology.

Chang L, et al. (2024) Single cell RNA analysis uncovers the cell differentiation and functionalization for air breathing of frog lung. *Communications biology*, 7(1), 665.

Sakagami K, et al. (2024) Development of a heat-stable alkaline phosphatase reporter system for cis-regulatory analysis and its application to 3D digital imaging of *Xenopus* embryonic tissues. *Development, growth & differentiation*.

Leggere JC, et al. (2024) Label-free proteomic comparison reveals ciliary and nonciliary phenotypes of IFT-A mutants. *Molecular biology of the cell*, 35(3), ar39.

Bowden S, et al. (2024) Foxi1 regulates multiple steps of mucociliary development and ionocyte specification through transcriptional and epigenetic mechanisms. *bioRxiv* : the preprint server for biology.

Ceroni F, et al. (2024) Deletion upstream of MAB21L2 highlights the importance of evolutionarily conserved non-coding sequences for eye development. *Nature communications*, 15(1), 9245.