

Resource Summary Report

Generated by [NIF](#) on Aug 12, 2026

Xenbase

RRID:SCR_003280

Type: Tool

Proper Citation

Xenbase (RRID:SCR_003280)

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: service resource, data or information resource, storage service resource, database, image repository, data repository

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, RRID Community Authority

Funding: NICHD R01 HD045776;
NICHD P41 HD064556

Availability: Free, Available for download, Freely available

Resource Name: Xenbase

Resource ID: SCR_003280

Alternate IDs: biotools:xenbase, OMICS_01665, nif-0000-01286, r3d100010279

Alternate URLs: <http://www.xenbase.org/entry/>, <https://bio.tools/xenbase>, <https://doi.org/10.17616/R3MP4S>

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

Record Creation Time: 20220129T080218+0000

Record Last Update: 20260812T044042+0000

Ratings and Alerts

No rating or validation information has been found for Xenbase.

No alerts have been found for Xenbase.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 484 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Chu S, et al. (2026) Xenbase: 25 years of integrating molecular and biomedical data from Xenopus. Genetics, 232(4).

Zheng L, et al. (2026) Prolonged visual experience accelerates developmental synaptic downscaling via epigenetic regulation and Rab5c mediated AMPA receptor trafficking. Communications biology, 9(1), 230.

Thibaud P, et al. (2026) Vestigial-like 4 Regulates Neurogenesis and Neural Crest Formation During Xenopus Development. Journal of developmental biology, 14(1).

Plüttner M, et al. (2026) New insights into the molecular basis of gametogenesis in the hybridogenetic water frog Pelophylax esculentus. Scientific reports, 16(1), 5012.

Carvalho JL, et al. (2026) Escaping Constraints to Innovate: Maternal Neofunctionalization in a HoxB4 Duplicate. Journal of experimental zoology. Part B, Molecular and developmental evolution, 346(2), 141.

Mii Y, et al. (2026) Planar cell polarity emerges through polarized accumulation of Wnt11. Science advances, 12(9), eaea0326.

Soria-Ortiz GJ, et al. (2026) Signatures of repeated genomic selection associated with human-modified landscapes in genetically independent populations of *Rhinella horribilis*. Heredity, 135(4), 289.

- Banerjee S, et al. (2026) Seizures, increased interhemispheric synchrony, altered brain transcriptomics and a leaky blood-brain barrier result from loss of ap3b2 in a CRISPR tadpole model of DEE48. *Frontiers in neurology*, 17, 1777738.
- Heshami N, et al. (2026) Pinopsin Regulates Melatonin Production and Daily Locomotor Activity: Functional Insights From Gene-Edited *Xenopus* Tadpoles. *Journal of pineal research*, 78(2), e70114.
- Naert T, et al. (2026) Precise, predictable genome integrations by deep-learning-assisted design of microhomology-based templates. *Nature biotechnology*, 44(6), 1023.
- Beck CW, et al. (2026) Neurod2 knockdown in *Xenopus laevis* tadpole brain retains cells in a proliferating, progenitor-like state. *microPublication biology*, 2026.
- Kukoly LM, et al. (2026) Sex-specific functional evolution of Dmrt1 in African clawed frogs (*Xenopus*), and the importance of genetic tipping points in developmental biology. *PLoS genetics*, 22(1), e1011992.
- Bowden S, et al. (2026) Foxi1 regulates multipotent mucociliary progenitors and ionocyte specification through transcriptional and epigenetic mechanisms. *PLoS biology*, 24(1), e3003583.
- Shen B, et al. (2026) Subcellular mass spectrometry reveals proteome remodeling in an asymmetrically dividing (frog) embryonic stem cell. *Proceedings of the National Academy of Sciences of the United States of America*, 123(5), e2518372123.
- Montequin A, et al. (2026) Dynamic and non-uniform expression of key transcription factors provides insights into the emergence of neural crest cells at the neural plate border. *Development (Cambridge, England)*, 153(4).
- Flowers EM, et al. (2026) "Double-duty" dendritic cells in *Xenopus laevis*: Early vertebrate splenic APCs resemble conventional dendritic cells and limit native antigen presentation to B cells during a humoral response. *Molecular immunology*, 189, 53.
- Coppenrath K, et al. (2026) SIX1 branchio-oto-renal syndrome variants have different effects on embryonic craniofacial gene expression and cartilage formation. *Development (Cambridge, England)*, 153(13).
- Denver RJ, et al. (2026) How does a tadpole know when to metamorphose? Integrating evolutionary, ecological, and developmental biology with the neuroendocrinology of amphibian metamorphosis. *Developmental biology*, 532, 144.
- Vijatovic D, et al. (2026) Multifold increase in spinal inhibitory cell types with emergence of limb movement. *Cell reports*, 45(4), 117227.
- Craig Z, et al. (2026) Anillin variant in proteinuric kidney disease drives tubular epithelial cell death, junctional instability, and barrier dysfunction. *medRxiv : the preprint server for health sciences*.