Resource Summary Report

Generated by nidm-terms on Jul 28, 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, database, storage service resource, image repository, data repository, data or information 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, 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: 20260728T043143+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 446 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

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.

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.

Bowden S, et al. (2026) Foxi1 regulates multipotent mucociliary progenitors and ionocyte specification through transcriptional and epigenetic mechanisms. PLoS biology, 24(1), e3003583.

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

McCluskey KE, et al. (2025) Autism gene variants disrupt enteric neuron migration and cause gastrointestinal dysmotility. Nature communications, 16(1), 2238.

Berns H, et al. (2025) A homozygous human WNT11 variant is associated with laterality, heart and renal defects. Disease models & mechanisms, 18(5).

Youmans L, et al. (2025) Focal Adhesion Kinase Variants May Contribute to Risk of Human Myelomeningocele. medRxiv : the preprint server for health sciences.

Almojil D, et al. (2025) The two sub-genomes of the allotetraploid frog Xenopus laevis are evolving under similar selective pressure in extant populations. BMC genomics, 26(1), 887.

Piekniewska A, et al. (2025) Do organisms need an impact factor? Citations of key biological resources including model organisms reveal usage patterns and impact. PloS one, 20(8), e0327344.

Altshuller M, et al. (2025) ATM promotes reversed fork processing during DNA interstrand cross-link repair. bioRxiv : the preprint server for biology.

Kim M, et al. (2025) Prdx6 regulates in vivo myeloid cell development via redox control during Xenopus embryogenesis. Animal cells and systems, 29(1), 438.

Xiang K, et al. (2025) PAL-AI reveals genetic determinants that control poly(A)-tail length during oocyte maturation, with relevance to human fertility. Nature communications, 16(1), 7079.

Tawil M, et al. (2025) Quantitative modeling of mRNA degradation reveals tempo-dependent mRNA clearance in early embryos. Nucleic acids research, 53(14).

Chuykin I, et al. (2025) FGF receptor modulates planar cell polarity in the neuroectoderm via Vangl2 tyrosine phosphorylation. Nature communications, 16(1), 7219.

Griffin C, et al. (2025) Deletion of sf3b4 causes splicing defects and gene dysregulation that disrupt craniofacial development and survival. Disease models & mechanisms, 18(3).

Yoon MJ, et al. (2025) UXT oligomerization is essential for its role as an autophagy adaptor. iScience, 28(3), 112013.

Rigney S, et al. (2025) Kr??ppel-like factors play essential roles in regulating pluripotency and the formation of neural crest stem cells. Development (Cambridge, England), 152(9).

Bennett R, et al. (2025) An epigenetic clock for Xenopus tropicalis. npj aging, 11(1), 38.

Sroka TJ, et al. (2025) An enzymatic cascade enables sensitive and specific proximity labeling proteomics in challenging biological systems. Nature communications, 16(1), 9691.

Hendrickson CL, et al. (2025) Foxi2 and Sox3 are master transcription regulators that control ectoderm germ layer specification in Xenopus. PLoS biology, 23(11), e3003476.