

Resource Summary Report

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Xenopus Anatomy Ontology

RRID:SCR_004337

Type: Tool

Proper Citation

Xenopus Anatomy Ontology (RRID:SCR_004337)

Resource Information

URL: <http://www.xenbase.org/anatomy/xao.do?method=display>

Proper Citation: Xenopus Anatomy Ontology (RRID:SCR_004337)

Description: A structured, controlled vocabulary of the anatomy and development of the African clawed frogs (*Xenopus laevis* and *tropicalis*), organized in a graphical structure. Tissues are shown as being part of other tissues and the timing of their development is indicated by start and end stages. The lineage of tissues is represented by develops from relationships between different tissues at different developmental stages. Many items have been classified according to the Common Anatomy Reference Ontology. The Xenopus Anatomical Ontology will be used to annotate Xenopus gene expression patterns and mutant and morphant phenotypes. Its robust developmental map will enable powerful database searches and data analyses. They encourage community recommendations for updates and improvements to the ontology.

Abbreviations: XAO

Synonyms: Xenopus anatomy and development ontology

Resource Type: data or information resource, controlled vocabulary, ontology

Defining Citation: [PMID:18817563](#)

Keywords: obo, anatomy, development

Funding: AHFMR Senior Scholar award ;
NICHD R01HD045776-03

Availability: The community can contribute to this resource

Resource Name: Xenopus Anatomy Ontology

Resource ID: SCR_004337

Alternate IDs: nlx_35222

Alternate URLs: https://xenopus-anatomy-ontology.googlecode.com/svn/trunk/current-release/xenopus_anatomy.obo, <http://purl.bioontology.org/ontology/XAO>, http://obofoundry.org/cgi-bin/detail.cgi?id=xenopus_anatomy

Record Creation Time: 20220129T080224+0000

Record Last Update: 20260810T040352+0000

Ratings and Alerts

No rating or validation information has been found for Xenopus Anatomy Ontology.

No alerts have been found for Xenopus Anatomy Ontology.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Lee H, et al. (2024) R-Spondin 2 governs Xenopus left-right body axis formation by establishing an FGF signaling gradient. *Nature communications*, 15(1), 1003.

Seidl C, et al. (2023) Mucociliary Wnt signaling promotes cilia biogenesis and beating. *Nature communications*, 14(1), 1259.

Fatti E, et al. (2023) DEAD box RNA helicases act as nucleotide exchange factors for casein kinase 2. *Science signaling*, 16(782), eabp8923.

Fisher ME, et al. (2022) The Xenopus phenotype ontology: bridging model organism phenotype data to human health and development. *BMC bioinformatics*, 23(1), 99.

Zahn N, et al. (2022) Normal Table of Xenopus development: a new graphical resource. *Development (Cambridge, England)*, 149(14).

Tasca A, et al. (2021) Notch signaling induces either apoptosis or cell fate change in multiciliated cells during mucociliary tissue remodeling. *Developmental cell*, 56(4), 525.

Lee H, et al. (2020) R-spondins are BMP receptor antagonists in Xenopus early embryonic development. *Nature communications*, 11(1), 5570.

Haas M, et al. (2019) ?N-Tp63 Mediates Wnt/?-Catenin-Induced Inhibition of Differentiation in Basal Stem Cells of Mucociliary Epithelia. *Cell reports*, 28(13), 3338.

Harper L, et al. (2018) AgBioData consortium recommendations for sustainable genomics and genetics databases for agriculture. Database : the journal of biological databases and curation, 2018.