

Resource Summary Report

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Xiphophorus Genetic Stock Center

RRID:SCR_008340

Type: Tool

Proper Citation

Xiphophorus Genetic Stock Center (RRID:SCR_008340)

Resource Information

URL: <http://www.xiphophorus.txstate.edu/>

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Description: Supplier of xiphophorus (platyfish or swordtails) from pedigreed parental lines, representing variety of species. In addition to supplying strains and providing consultation on husbandry and genetic questions, the XGSC produces custom interspecies hybrids (both first generation F1, and backcross hybrid generation BC1) for a variety of projects.

Synonyms: XGSC

Resource Type: biomaterial supply resource, material resource, organism supplier

Keywords: RIN, Resource Information Network, est, fish, cryopreservation, microsatellite, swordtail, RRID Community Authority

Funding: NCI P01 CA75137;
NIH Office of the Director R24 OD011120;
University of Texas MD Anderson Center

Resource Name: Xiphophorus Genetic Stock Center

Resource ID: SCR_008340

Alternate IDs: nif-0000-24971

Alternate URLs: <https://orip.nih.gov/comparative-medicine/programs/vertebrate-models>

License: Resource specific license

License URLs: <https://www.txst.edu/about/about-this-site>

Record Creation Time: 20220129T080246+0000

Ratings and Alerts

No rating or validation information has been found for Xiphophorus Genetic Stock Center.

No alerts have been found for Xiphophorus Genetic Stock Center.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 109 mentions in open access literature.

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

Soria E, et al. (2025) Segregation Between an Ornamental and a Disease Driver Gene Provides Insights Into Pigment Cell Regulation. *Pigment cell & melanoma research*, 38(1), e13196.

Lu Y, et al. (2021) Fixation of allelic gene expression landscapes and expression bias pattern shape the transcriptome of the clonal Amazon molly. *Genome research*, 31(3), 372.

Shirley CA, et al. (2021) A generalized approach for sperm cryopreservation in the genus *Pomoxis*: Sperm cryopreservation and fertilization efficiency of black-stripe black crappie, *Pomoxis nigromaculatus*. *Journal of the World Aquaculture Society*, 52(2), 405.

Lu Y, et al. (2020) Oncogenic allelic interaction in *Xiphophorus* highlights hybrid incompatibility. *Proceedings of the National Academy of Sciences of the United States of America*, 117(47), 29786.

Lu Y, et al. (2020) Global assessment of organ specific basal gene expression over a diurnal cycle with analyses of gene copies exhibiting cyclic expression patterns. *BMC genomics*, 21(1), 787.

Lu Y, et al. (2020) Intra-Strain Genetic Variation of *Platyfish* (*Xiphophorus maculatus*) Strains Determines Tumorigenic Trajectory. *Frontiers in genetics*, 11, 562594.

Tiersch CJ, et al. (2020) 3-D Printed Customizable Vitrification Devices for Preservation of Genetic Resources of Aquatic Species. *Aquacultural engineering*, 90.

Liu Y, et al. (2020) Microfabrication of low-cost customisable counting chambers for standardised estimation of sperm concentration. *Reproduction, fertility, and development*, 32(9), 873.

Yang H, et al. (2020) Temporal and Concentration Effects of Methanol on Cryopreservation of Zebrafish (*Danio rerio*) Sperm. *Zebrafish*, 17(4), 233.

Boswell M, et al. (2020) Deconvoluting Wavelengths Leading to Fluorescent Light Induced Inflammation and Cellular Stress in Zebrafish (*Danio rerio*). *Scientific reports*, 10(1), 3321.

Liu Y, et al. (2019) Development of germplasm repositories to assist conservation of endangered fishes: Examples from small-bodied livebearing fishes. *Theriogenology*, 135, 138.

Boswell M, et al. (2019) Fluorescent Light Incites a Conserved Immune and Inflammatory Genetic Response within Vertebrate Organs (*Danio Rerio*, *Oryzias Latipes* and *Mus Musculus*). *Genes*, 10(4).

Klotz B, et al. (2019) Expression Signatures of Cisplatin- and Trametinib-Treated Early-Stage Medaka Melanomas. *G3 (Bethesda, Md.)*, 9(7), 2267.

Lu Y, et al. (2019) Application of the Transcriptional Disease Signature (TDSs) to Screen Melanoma-Effective Compounds in a Small Fish Model. *Scientific reports*, 9(1), 530.

Tiersch NJ, et al. (2019) Three-Dimensional Printing of Vitrification Loop Prototypes for Aquatic Species. *Zebrafish*, 16(3), 252.

Shamkhalichenar H, et al. (2019) Three-dimensional printing can provide customizable probes for sensing and monitoring in cryobiology applications. *Cryobiology*, 88, 64.

Childress WM, et al. (2019) On-Site Capabilities of a Mobile Laboratory for Aquatic Germplasm Cryopreservation. *North American journal of aquaculture*, 81(4), 349.

Boswell M, et al. (2018) The transcriptional response of skin to fluorescent light exposure in viviparous (*Xiphophorus*) and oviparous (*Danio*, *Oryzias*) fishes. *Comparative biochemistry and physiology. Toxicology & pharmacology : CBP*, 208, 77.

Klotz B, et al. (2018) Expression signatures of early-stage and advanced medaka melanomas. *Comparative biochemistry and physiology. Toxicology & pharmacology : CBP*, 208, 20.

Lu Y, et al. (2018) Gene expression variation and parental allele inheritance in a *Xiphophorus* interspecies hybridization model. *PLoS genetics*, 14(12), e1007875.