

Resource Summary Report

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Hydractinia Genome Project Portal

RRID:SCR_022602

Type: Tool

Proper Citation

Hydractinia Genome Project Portal (RRID:SCR_022602)

Resource Information

URL: <https://research.nhgri.nih.gov/hydractinia/>

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Description: Portal provides genomic and transcriptomic data for researchers interested in Hydractinia genomics and molecular biology. Includes browsers for the *H. symbiolongicarpus* and *H. echinata* genome assemblies and interactive interface for interrogating *H. symbiolongicarpus* single cell gene expression atlas. Provides gene pages with functional annotation data for every gene model for both species, including protein domain composition and orthology predictions.

Synonyms: NHGRI Hydractinia Genome Project Portal

Resource Type: data or information resource, portal, project portal

Keywords: Hydractinia genomic and transcriptomic data, functional annotation data, gene model, protein domain composition, orthology predictions

Availability: Free, Freely available

Resource Name: Hydractinia Genome Project Portal

Resource ID: SCR_022602

Record Creation Time: 20220729T050144+0000

Record Last Update: 20260814T043049+0000

Ratings and Alerts

No rating or validation information has been found for Hydractinia Genome Project Portal.

No alerts have been found for Hydractinia Genome Project Portal.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Klomp AML, et al. (2026) Proteomic analysis of FACS-enriched whole nematocysts from the colonial hydrozoan *Hydractinia symbiolongicarpus*. *Toxicon*: X, 29, 100242.

Song J, et al. (2025) An updated and spatially validated somatic single-cell atlas of *Hydractinia symbiolongicarpus*. *BMC genomics*, 26(1), 1097.

Schnitzler CE, et al. (2025) How Single-Cell Transcriptomics of *Hydractinia* Is Informing the Evolution of Cnidarian Sensory Systems. *Integrative and comparative biology*, 65(3), 701.

Song J, et al. (2025) An updated and spatially validated somatic single-cell atlas of *Hydractinia symbiolongicarpus*. *bioRxiv* : the preprint server for biology.

Kon T, et al. (2025) Subtelomeric repeat expansion in *Hydractinia symbiolongicarpus* chromosomes. *Mobile DNA*, 16(1), 14.

Birch S, et al. (2024) Phototactic preference and its genetic basis in the planulae of the colonial Hydrozoan *Hydractinia symbiolongicarpus*. *bioRxiv* : the preprint server for biology.

Schnitzler CE, et al. (2024) The genome of the colonial hydroid *Hydractinia* reveals that their stem cells use a toolkit of evolutionarily shared genes with all animals. *Genome research*, 34(3), 498.

Ayers TN, et al. (2023) Parallels and contrasts between the cnidarian and bilaterian maternal-to-zygotic transition are revealed in *Hydractinia* embryos. *PLoS genetics*, 19(7), e1010845.

Ayers TN, et al. (2023) Parallels and contrasts between the cnidarian and bilaterian maternal-to-zygotic transition are revealed in *Hydractinia* embryos. *bioRxiv* : the preprint server for biology.

Garg N, et al. (2023) Non-muscle myosin II drives critical steps of nematocyst morphogenesis. *iScience*, 26(3), 106291.

Salinas-Saavedra M, et al. (2023) Senescence-induced cellular reprogramming drives cnidarian whole-body regeneration. *Cell reports*, 42(7), 112687.

Kon-Nanjo K, et al. (2023) Chromosome-level genome assembly of *Hydractinia symbiolongicarpus*. *G3 (Bethesda, Md.)*, 13(8).

Schnitzler CE, et al. (2023) The genome of the colonial hydroid *Hydractinia* reveals their stem cells utilize a toolkit of evolutionarily shared genes with all animals. *bioRxiv* : the preprint server for biology.

Febrimarsa , et al. (2023) Randomly incorporated genomic N6-methyldeoxyadenosine delays zygotic transcription initiation in a cnidarian. *The EMBO journal*, 42(15), e112934.

Klumpen AML, et al. (2022) Venom system variation and the division of labor in the colonial hydrozoan *Hydractinia symbiolongicarpus*. *Toxicon: X*, 14, 100113.

Huene AL, et al. (2022) Cryopreservation of *Hydractinia symbiolongicarpus* Sperm to Support Community-Based Repository Development for Preservation of Genetic Resources. *Animals* : an open access journal from MDPI, 12(19).

Frank U, et al. (2020) The colonial cnidarian *Hydractinia*. *EvoDevo*, 11, 7.