Resource Summary Report

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Four-dimensional Ascidian Body Atlas

RRID:SCR_001691
Type: Tool

Proper Citation

Four-dimensional Ascidian Body Atlas (RRID:SCR_001691)

Resource Information

URL: https://chordate.bpni.bio.keio.ac.jp/chordate/faba/1.4/top.html

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Description: Image resource including ascidian's three-dimensional (3D) and cross-sectional images through the developmental time course. These images were reconstructed from more than 3,000 high-resolution real images collected by confocal laser scanning microscopy (CLSM) at newly defined 26 distinct developmental stages (stages 1-26) from fertilized egg to hatching larva, which were grouped into six periods named the zygote, cleavage, gastrula, neurula, tailbud, and larva periods. The data set will be helpful in standardizing developmental stages for morphology comparison as well as for providing guidelines for several functional studies of a body plan in chordate.

Abbreviations: FABA

Synonyms: FABA: Four-dimensional Ascidian Body Atlas

Resource Type: atlas, d spatial image, data or information resource

Defining Citation: PMID:17557317

Keywords: gene expression, genome, comparative genomics, human, microarray data, model organism, vertebrate, development, ascidian, embryonic development, embryo, video, developmental stage, 3d, slice, timelapse, egg, larva, time, confocal laser scanning microscopy

Funding: Japanese Ministry of Education Culture Sports Science and Technology MEXT ; JST-BIRD ;
Japan Society for the Promotion of Science 18770207

Availability: Free, Freely Available

Resource Name: Four-dimensional Ascidian Body Atlas

Resource ID: SCR_001691

Alternate IDs: nif-0000-02529

Old URLs: http://ciona.lab.nig.ac.jp/ascidian/top.html

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260904T000141+0000

Ratings and Alerts

No rating or validation information has been found for Four-dimensional Ascidian Body Atlas.

No alerts have been found for Four-dimensional Ascidian Body Atlas.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Lowe EK, et al. (2018) Developmental system drift in motor ganglion patterning between distantly related tunicates. EvoDevo, 9, 18.

Leigh BA, et al. (2016) Generation of Germ-Free Ciona intestinalis for Studies of Gut-Microbe Interactions. Frontiers in microbiology, 7, 2092.

Kourakis MJ, et al. (2015) An organismal perspective on C. intestinalis development, origins and diversification. eLife, 4.

Rizzi B, et al. (2013) Towards 3D in silico modeling of the sea urchin embryonic development. Journal of chemical biology, 7(1), 17.

Stolfi A, et al. (2012) Genetic and genomic toolbox of the chordate Ciona intestinalis. Genetics, 192(1), 55.