

Resource Summary Report

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Transcriptome sequencing of 19 diverse species of choanoflagellates

DOI:10.17504/protocols.io.kwscxee

Type: Protocol

Proper Citation

Daniel Richter, Parinaz Fozouni, Michael Eisen, Nicole King 2017. Transcriptome sequencing of 19 diverse species of choanoflagellates. protocols.io
[dx.doi.org/10.17504/protocols.io.kwscxee](https://doi.org/10.17504/protocols.io.kwscxee)

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.kwscxee>

Authors: Daniel Richter, Parinaz Fozouni, Michael Eisen, Nicole King

Group: Ecology of Marine Plankton (ECOMAP) team - Roscoff, King Lab, Protist Research to Optimize Tools in Genetics (PROT-G)

Summary: The origin of animals, which occurred over 600 million years ago, left no evidence in the fossil record. To trace the earliest events in animal prehistory, we compare extant animals to their closest living relatives, the choanoflagellates, in order to reconstruct the gene content of their last common ancestor and how it evolved on the stem lineage leading to animals. In this project, we increase the accuracy of ancestral animal and choanoflagellate gene content reconstructions by sequencing the transcriptomes of 19 species of choanoflagellates selected for their phylogenetic diversity.

Associated Publications:

Richter, Daniel J and Fozouni, Parinaz and Eisen, Michael and King, Nicole. Gene family innovation, conservation and loss on the animal stem lineage. 2018;7:e34226
<https://doi.org/10.7554/eLife.34226>

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External URL: <http://kinglab.berkeley.edu/>

Version: 1

Publication Date: 2017

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Record Creation Time: 20210329T220510+0000

Record Last Update: 20210329T220754+0000

Data and Source Information

Source: