



Review

CellPress

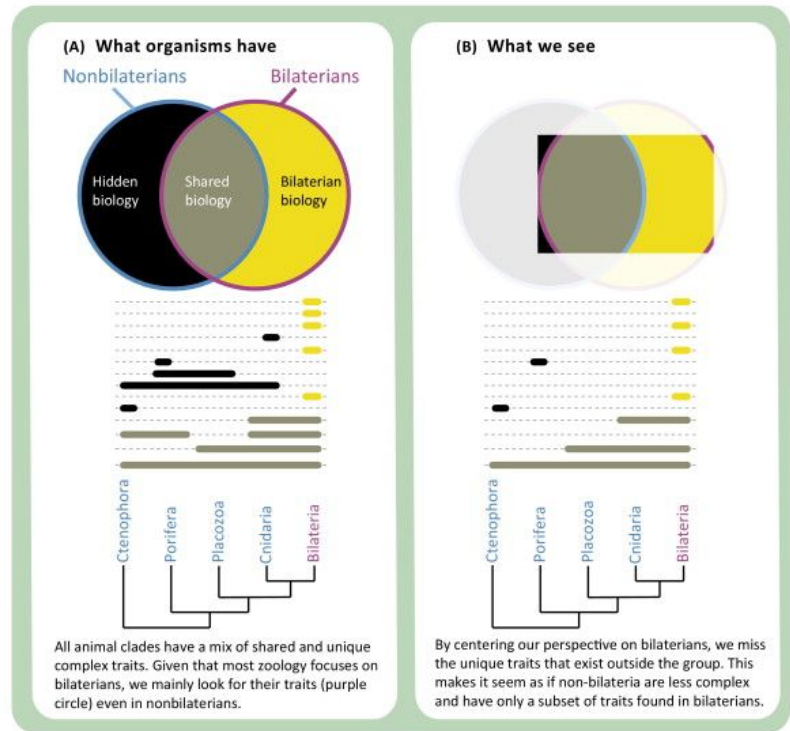
The hidden biology of sponges and ctenophores

Casey W. Dunn¹, Sally P. Leys², and Steven H.D. Haddock³

¹ Department of Ecology and Evolutionary Biology, Brown University, 80 Waterman St, Providence, RI 02906, USA

² Department of Biological Sciences, University of Alberta, Edmonton, AB, T6G 2E9, Canada

³ Monterey Bay Aquarium Research Institute, 7700 Sandholdt Rd, Moss Landing, CA 95039, USA



TRENDS in Ecology & Evolution

Broad phylogenomic sampling improves resolution of the animal tree of life

Casey W. Dunn , Andreas Hejnol, David Q. Matus, Kevin Pang, William E. Browne, Stephen A. Smith, Elaine Seaver, Greg W. Rouse, Matthias Obst, Gregory D. Edgecombe, Martin V. Sørensen, Steven H. D. Haddock, Andreas Schmidt-Rhaesa, Akiko Okusu, Reinhardt Møbjerg Kristensen, Ward C. Wheeler, Mark Q. Martindale & Gonzalo Giribet

Nature 452, 745–749 (2008) | [Cite this article](#)

Article | [Open Access](#) | Published: 19 March 2021

Evidence for sponges as sister to all other animals from partitioned phylogenomics with mixture models and recoding

Anthony K. Redmond & Aoife McLysaght 

Nature Communications 12, Article number: 1783 (2021) | [Cite this article](#)

Article | [Open Access](#) | Published: 17 May 2023

Ancient gene linkages support ctenophores as sister to other animals

Darrin T. Schultz , Steven H. D. Haddock, Jessen V. Bredeson, Richard E. Green, Oleg Simakov  & Daniel S. Rokhsar 

Nature 618, 110–117 (2023) | [Cite this article](#)



<https://www.theguardian.com/science/2023/sep/09/sponge-versus-comb-jelly-ancestor-evolution-debate>

nature

**BREAKING UP IS
HARD TO DO**
When collaborations
go wrong

FLU PANDEMICS
Schools out?

**COGNITIVE
ENHANCEMENT**
A consensus
emerges

IMPROVED RELATIONS

**Phylogenomics brings the animal
tree of life into sharper focus**

Broad phylogenomic sampling improves resolution of the animal tree of life

CW Dunn, A Hejnol, DQ Matus, K Pang, WE Browne... - Nature, 2008 - nature.com

Long-held ideas regarding the evolutionary relationships among animals have recently been upended by sometimes controversial hypotheses based largely on insights from ...

☆ Save ♫ Cite Cited by 2057 Related articles Web of Science: 1451 Import into BibTeX

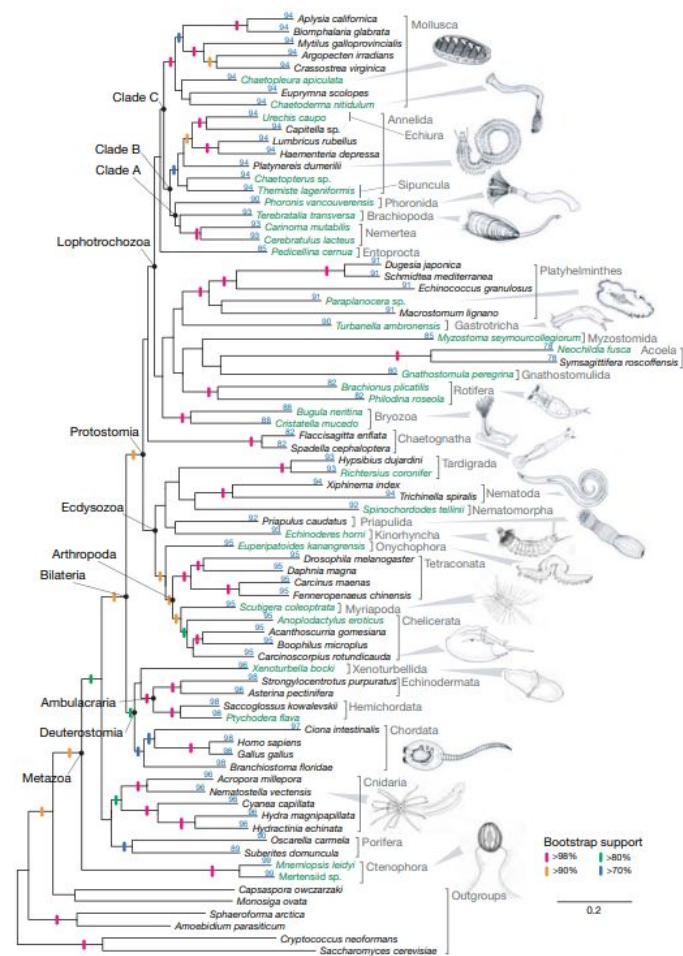


Figure 1 | Phylogram of the 77-taxon RaxML maximum likelihood analyses conducted under the WAG model. The figured topology and branch lengths are for the sampled tree with the highest likelihood (1,000 searches, log

likelihood = -796,399.2). Support values are derived from 1,000 bootstrap replicates. Leaf stabilities are shown in blue above each branch. Taxa for which we collected new data are shown in green.