

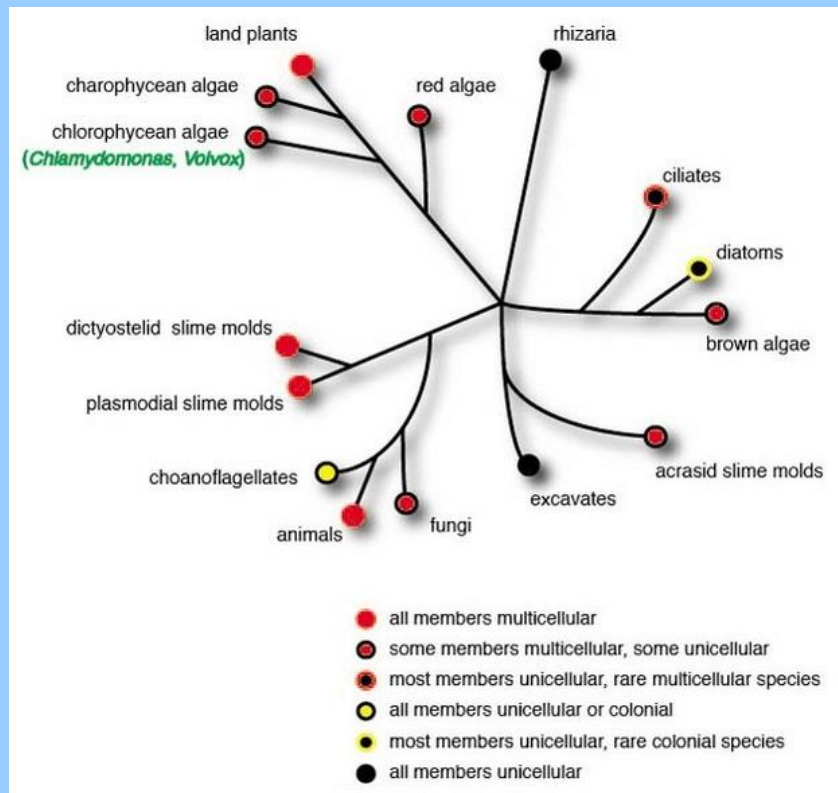


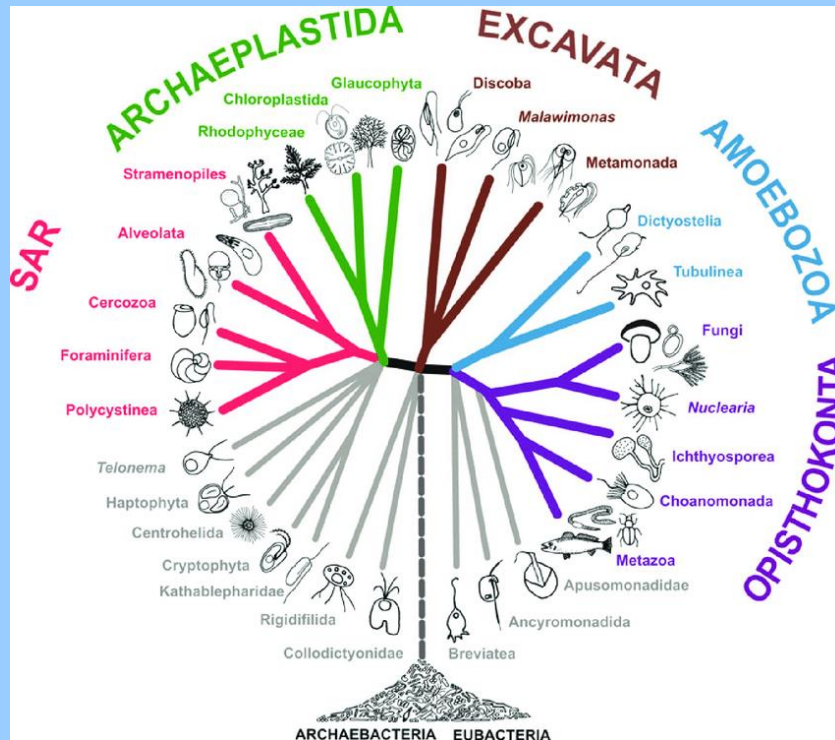
Multicellularity



The Evolution of Multicellularity

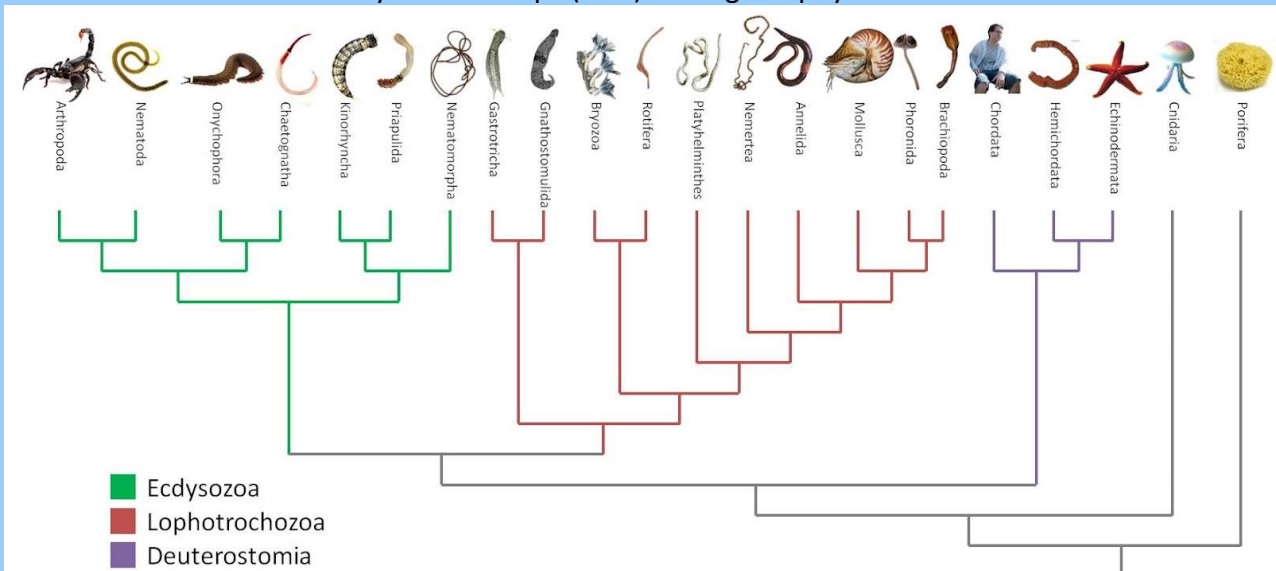
Read this [Nature Education article](#) about Volvox and the Evolution of Multicellularity and this blog entry about [From Dyani Lewis' about Slime Molds and the Evolution of Multicellularity](#) and write a two-paragraph summary.





Animal Diversity

Read the really brief, but full of terminology, [blog entry overview of animal diversity](#) and then get more details here from the [Digital Atlas of Ancient Life](#). Then write a two-paragraph summary of the basics of the evolutionary relationships (tree) among the phyla of animals.



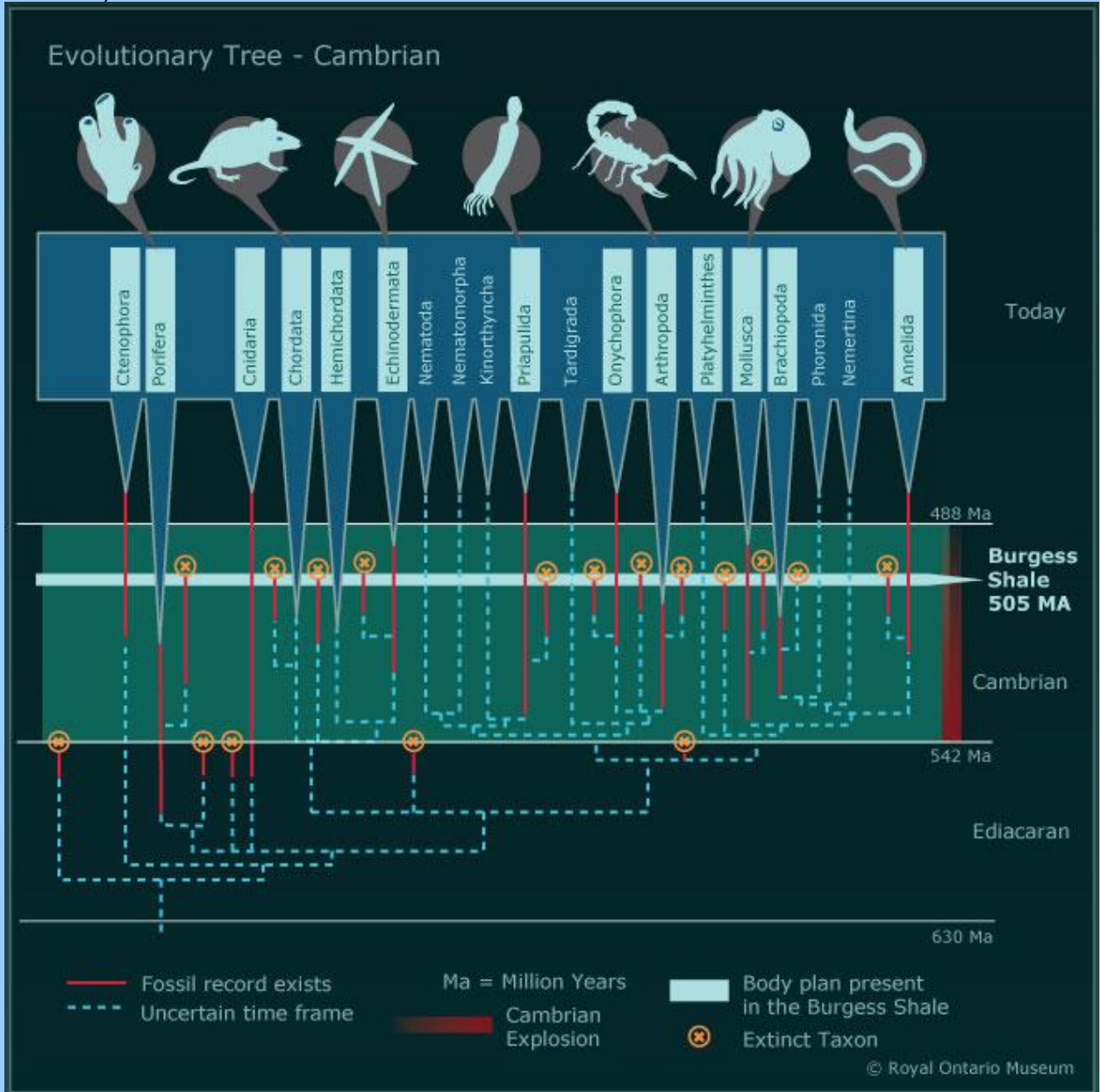


Cambrian Explosion and Burgess Shale

You don't have to write summaries of this topic, but you might like to review the references.

[Royal Ontario Museum--focus on Burgess Shale and Cambrian Explosion](#)

[Smithsonian Museum of Natural History Geologic Periods--Cambrian](#) (great general resource)



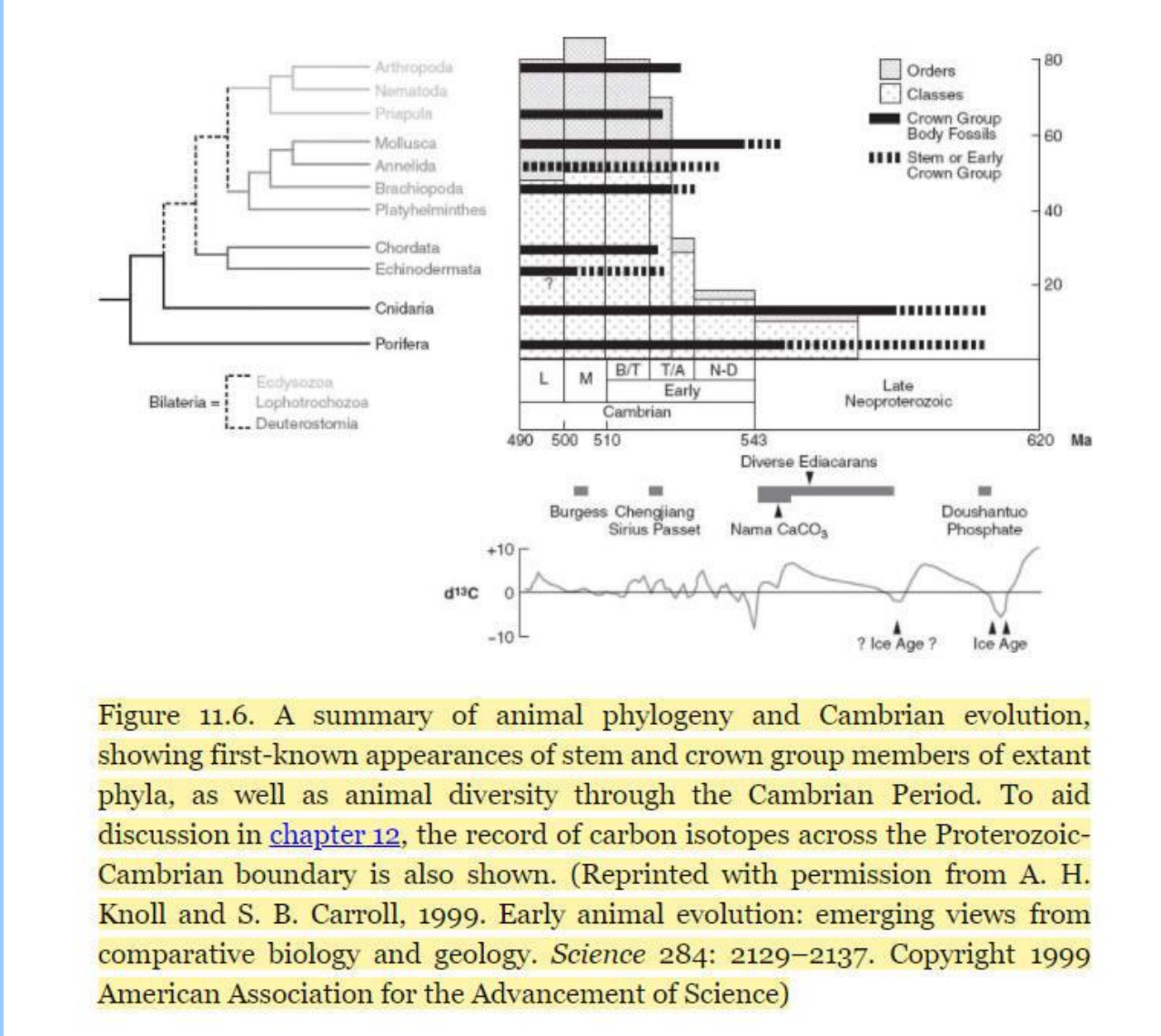
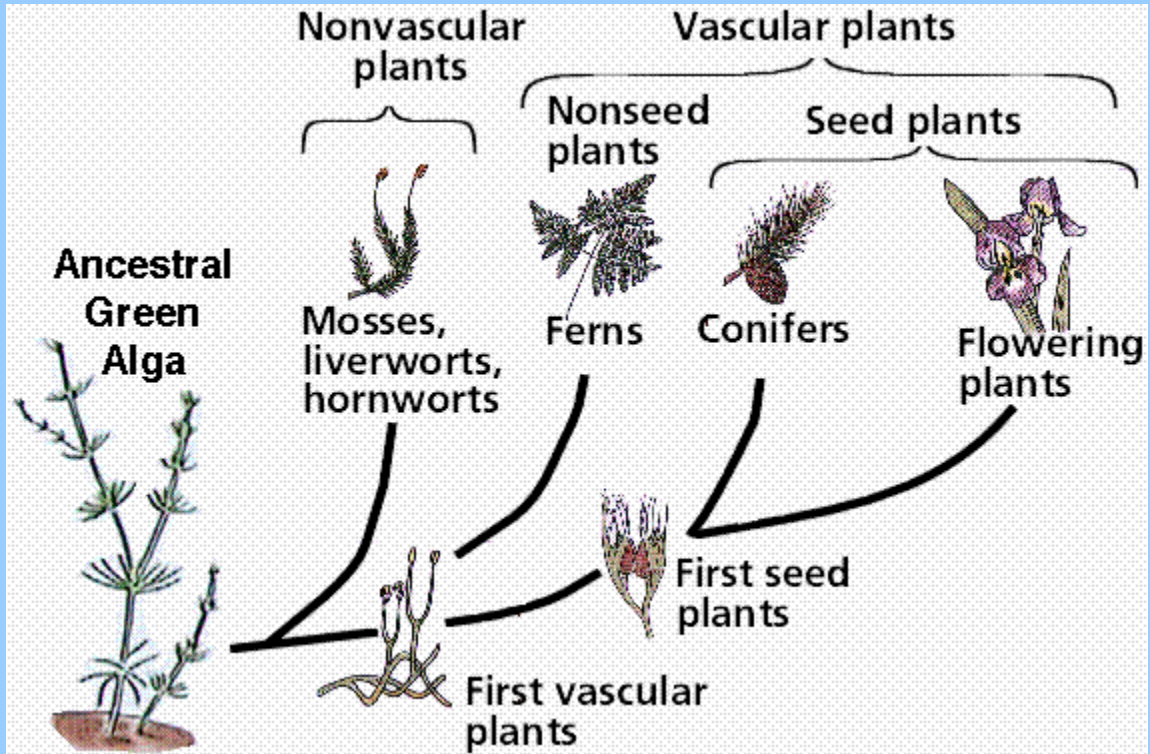


Figure 11.6. A summary of animal phylogeny and Cambrian evolution, showing first-known appearances of stem and crown group members of extant phyla, as well as animal diversity through the Cambrian Period. To aid discussion in [chapter 12](#), the record of carbon isotopes across the Proterozoic-Cambrian boundary is also shown. (Reprinted with permission from A. H. Knoll and S. B. Carroll, 1999. Early animal evolution: emerging views from comparative biology and geology. *Science* 284: 2129–2137. Copyright 1999 American Association for the Advancement of Science)

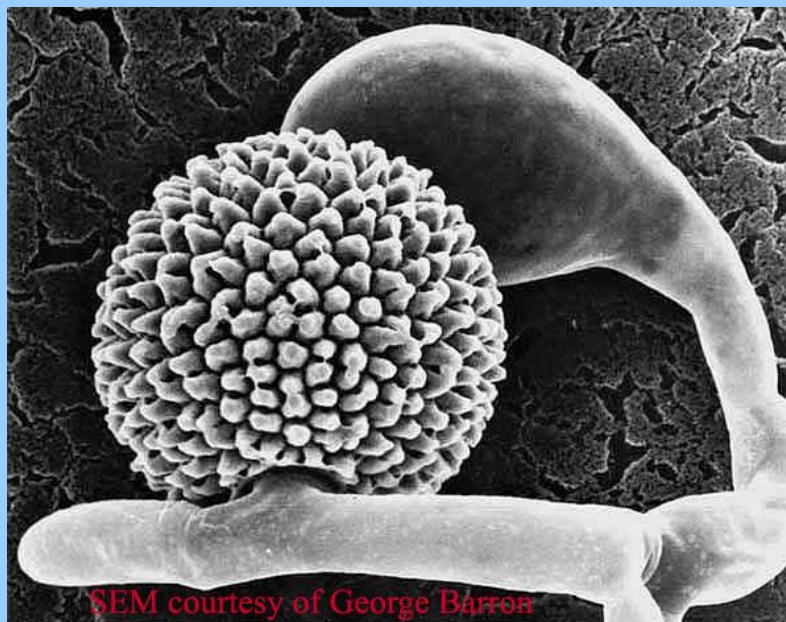


Additional Resources

We will cover diversity of plants and of fungi briefly.

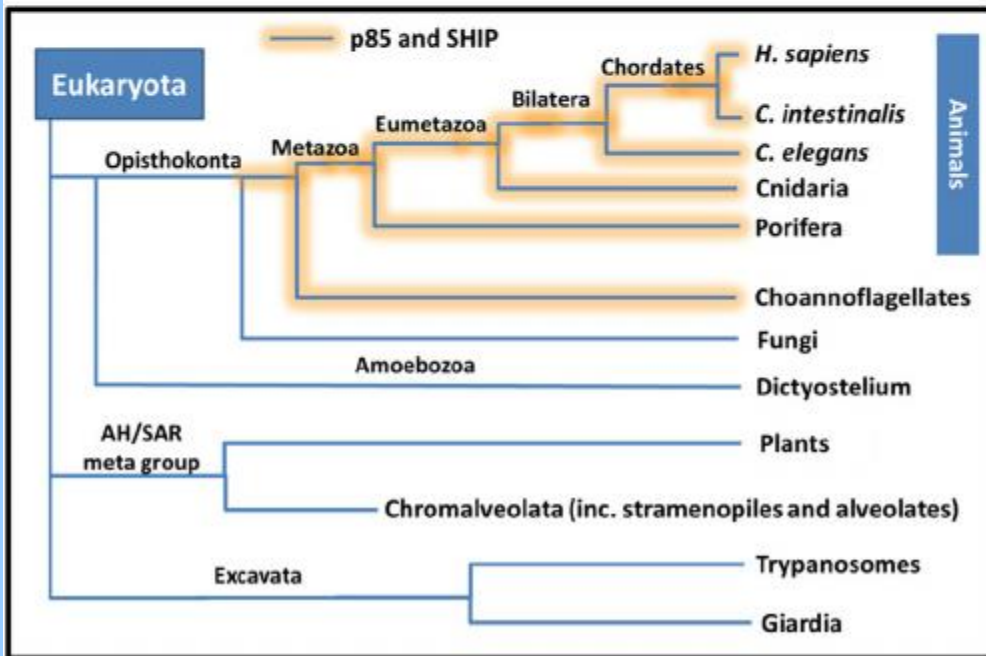
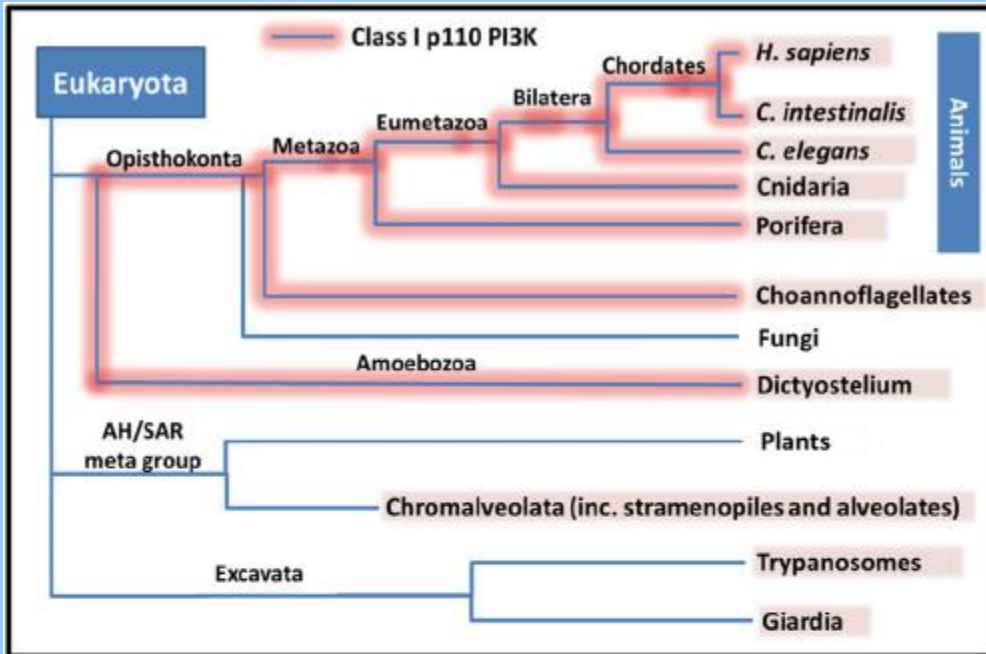


[Great review page on plant evolution \(from Estrella Mountain?\)](#)

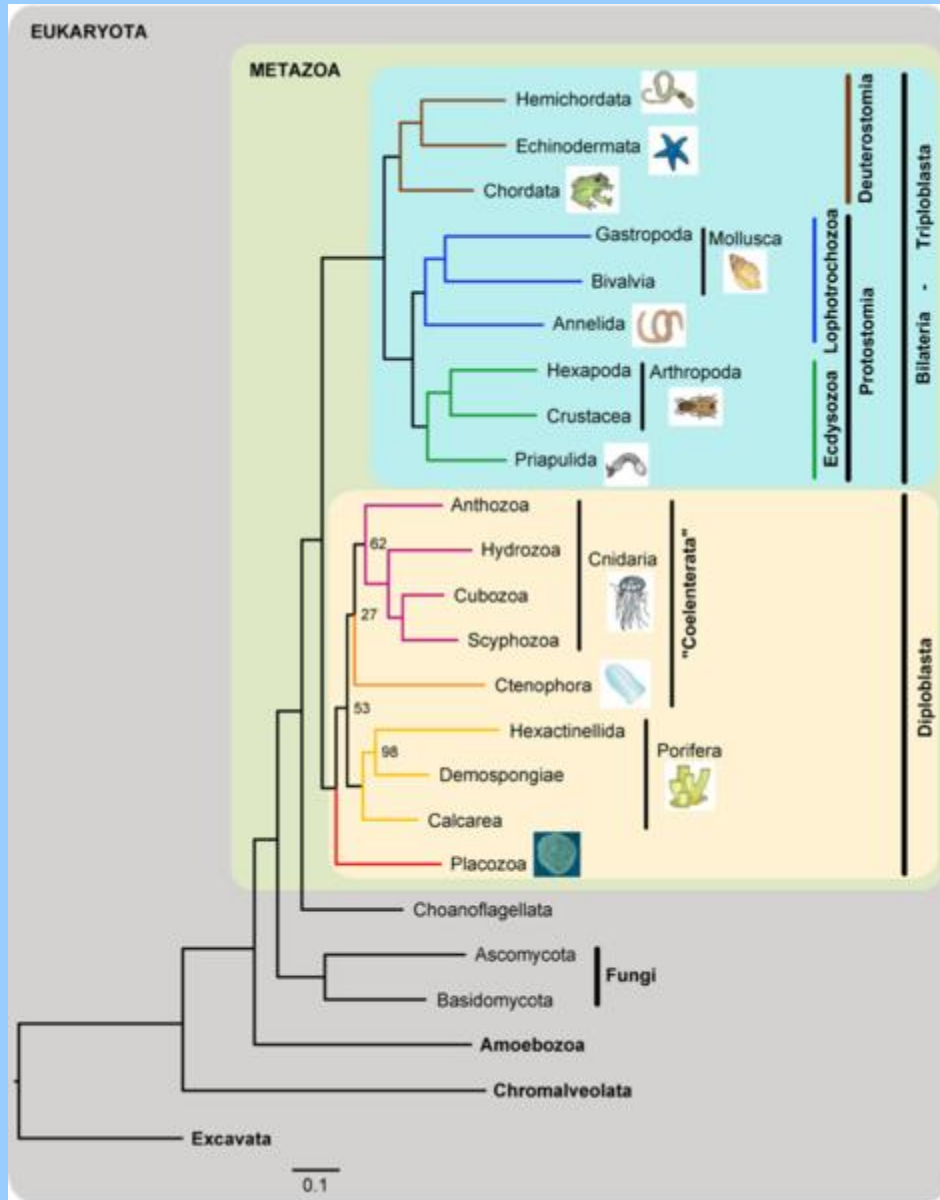


SEM courtesy of George Barron

[Nice overview of Fungi Diversity](#)



https://www.researchgate.net/figure/Eukaryotic-phylogenetic-tree-and-the-PI3K-system-A-simpli-fi-ed-representation-of_fig2_279314391



From Wikipedia



A screenshot of the NOVA LABS Evolution Lab website. The page features the NOVA LABS logo, a navigation menu, and a main content area with a video player and interactive buttons. The text on the page reads: "Evolution Lab", "What could you possibly have in common with a mushroom, or a dinosaur, or even a bacterium? More than you might think. In this Lab, you'll puzzle out the evolutionary relationships linking together a spectacular array of species. Explore the tree of life and get a front row seat to what some have called the greatest show on Earth. That show is evolution.", "PLAY GAME", "BUILD A TREE & DEEP TREE ACTIVITIES DEVELOPED BY THE LIFE ON EARTH PROJECT", "VIDEO INTRO", "ABOUT THIS LAB", and "EDUCATOR GUIDE". The Biogen Foundation logo is also visible in the top right corner.

Here's a link from PBS' Nova show with a game about how to make Evolutionary Trees or Phylogenies. You learn a lot both about how to construct a tree and about different groups of organisms...highly recommend it when you are feeling bored!

<https://www.pbs.org/wgbh/nova/labs/lab/evolution/>