



# *The dataset*



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# *Hughes et al. (2018)*

PNAS

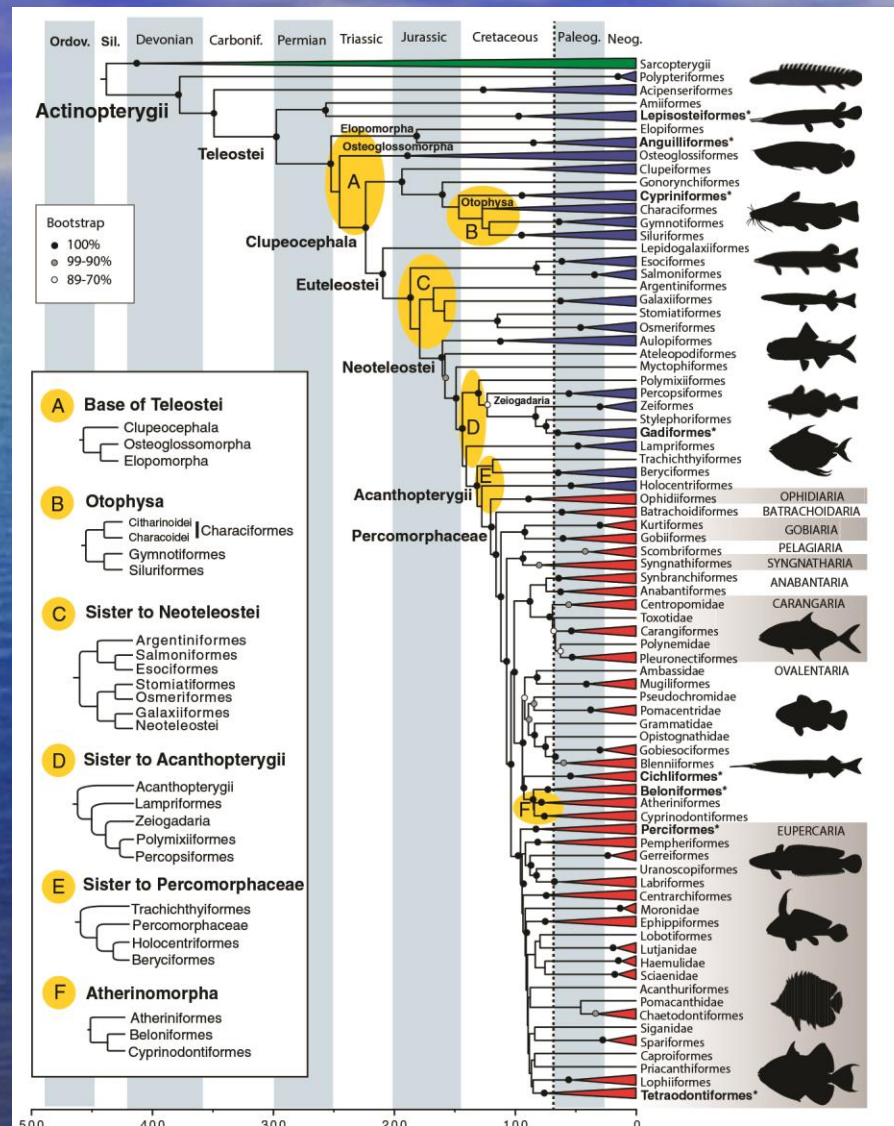


SEE COMMENTARY

## Comprehensive phylogeny of ray-finned fishes (Actinopterygii) based on transcriptomic and genomic data

Lily C. Hughes<sup>a,b,1,2</sup>, Guillermo Orti<sup>a,b,1,2</sup>, Yu Huang<sup>c,d,1</sup>, Ying Sun<sup>c,e,1</sup>, Carole C. Baldwin<sup>b</sup>, Andrew W. Thompson<sup>a,b</sup>, Dahiana Arcila<sup>a,b</sup>, Ricardo Betancur-R.<sup>b,f</sup>, Chenhong Li<sup>g</sup>, Leandro Becker<sup>h</sup>, Nicolás Bellora<sup>h</sup>, Xiaomeng Zhao<sup>c,d</sup>, Xiaofeng Li<sup>c,d</sup>, Min Wang<sup>c</sup>, Chao Fang<sup>d</sup>, Bing Xie<sup>c</sup>, Zhuocheng Zhou<sup>i</sup>, Hai Huang<sup>j</sup>, Songlin Chen<sup>k</sup>, Byrappa Venkatesh<sup>l,2</sup>, and Qiong Shi<sup>c,d,2</sup>

# Hughes et al. (2018)



# *Selection of taxa and data*

## **Given the time constraints in this course:**

40 taxa were selected across the entire tree

100 orthologous genes, randomly chosen

10 paralogous genes, randomly chosen

Additionally, for the analyses this afternoon, on purpose one assembly and some of the orthologous genes were spiked with a contamination.

(This contamination is not in the original datasets at all!!!)

**We are really grateful to Lily Hughes making all the datasets we needed available in no time last year.**