

The basal divergence pattern of teleost fish

Naoko Takezaki

The basal relationship of teleost fish was investigated by the 412 gene set from Bian et al. (2016).

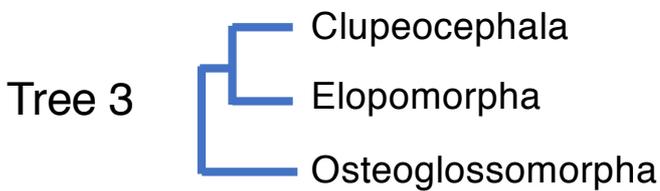
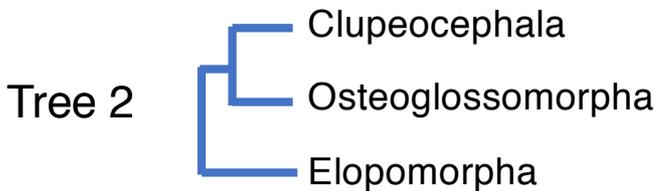
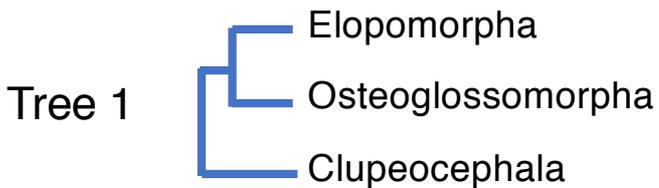
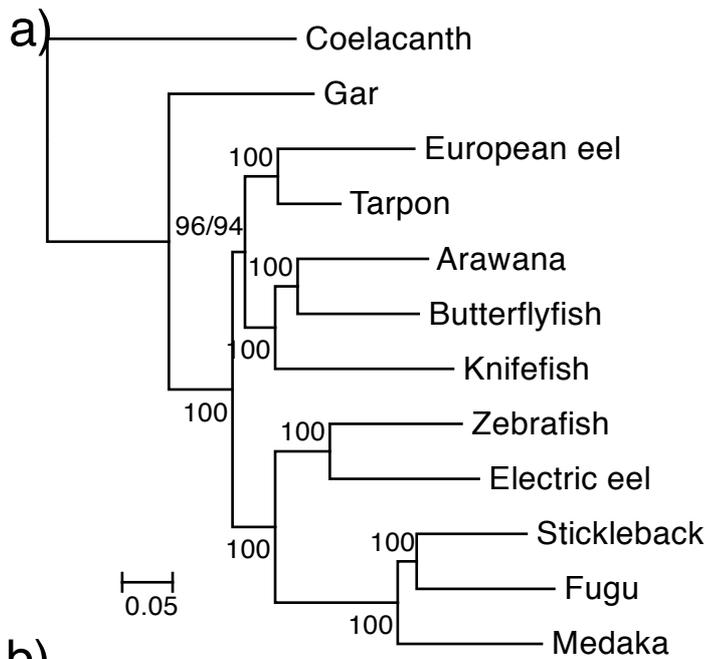


Figure 1. Three possible relationships of three groups of teleost fish, Osteoglossomorpha (arawana and its relatives), Elopomorpha (eel and its relatives), and Clupeocephala (the remaining).

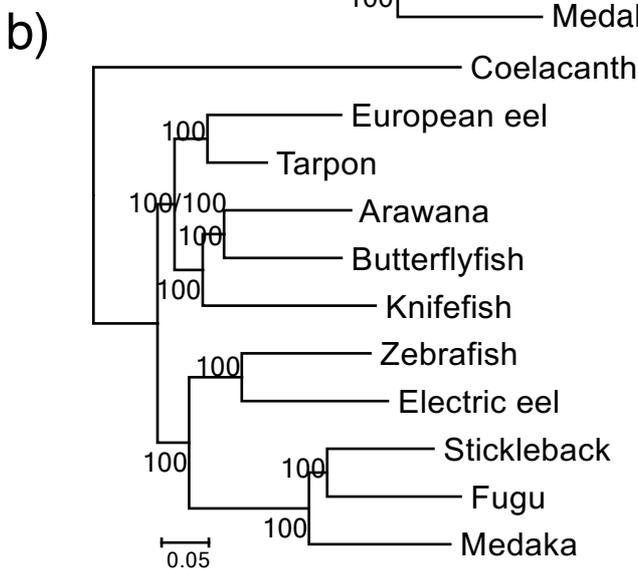


Tree 1

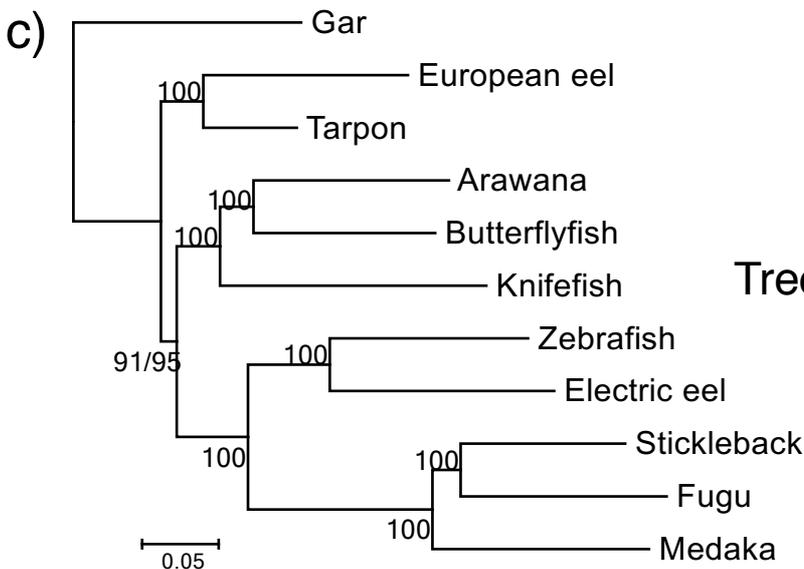
With the use of coelacanth and gar or coelacanth as outgroup, Tree 1 is supported.

However, with the use of closely related outgroup (gar), Tree 2 in which Elopomorpha diverged first from the other two groups.

This suggests that Tree 2 is the correct divergence pattern.



Tree 1



Tree 2

Figure 2. Phylogenetic trees constructed for concatenated sequence of the 412 gene set from Bian et al. (2016).