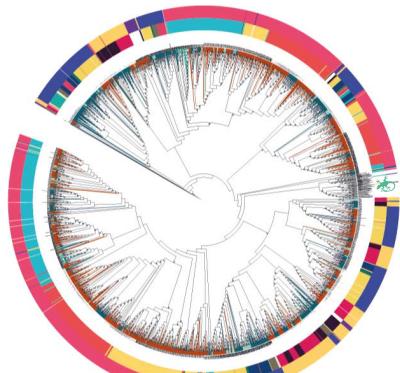
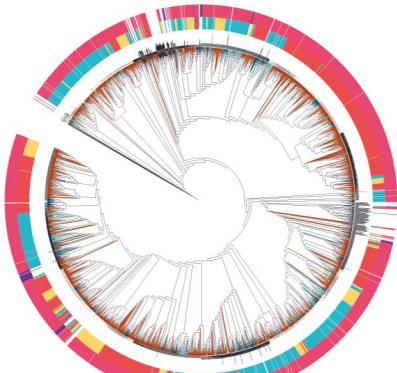


**A** Aqp1-like no trimming**B** Arthropod Aqps no trimming

Phylum

Lineage

Chelicerata

Myriapoda

Pancrustacea

Onychophora

Tardigrada

Habitat

Freshwater

Marine

Terrestrial

Brackish

Gastropoda

Scaphopoda

Bivalvia

Cephalopoda

Monoplacophora

Polyplacophora

Solenogastres

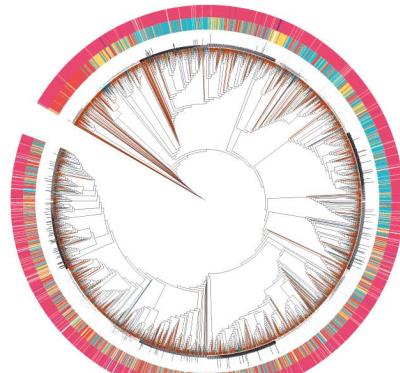
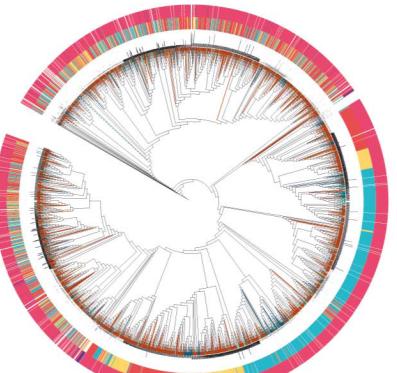
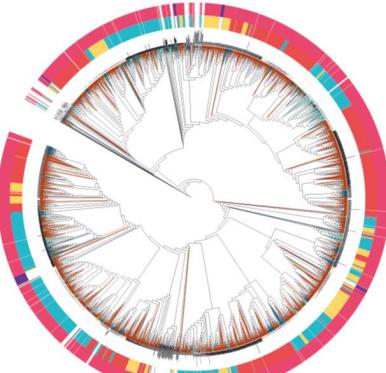
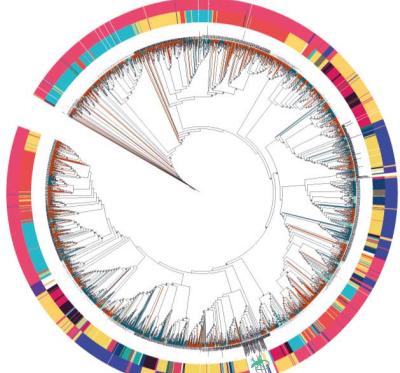
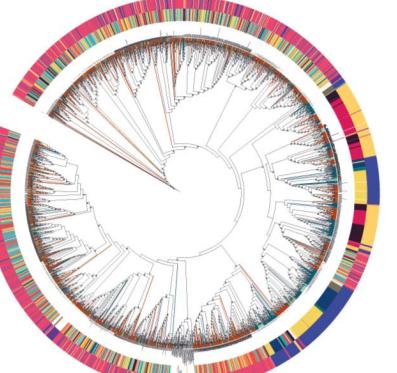
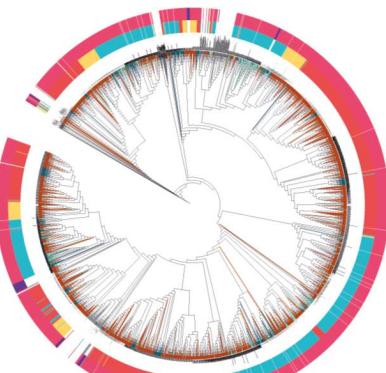
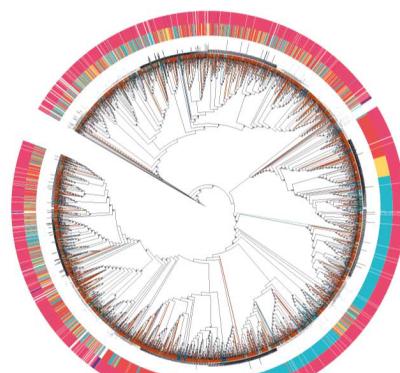
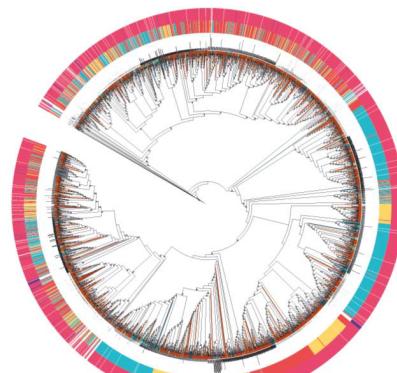
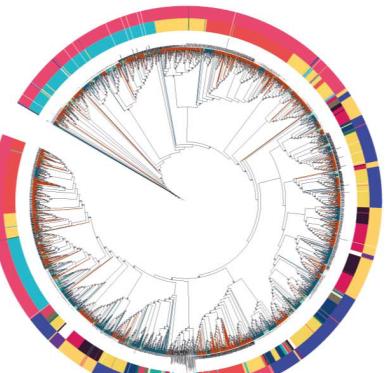
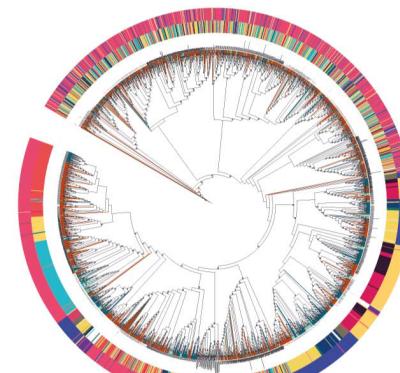
Caudofoveata

Annelida

Polychaeta

Clitellata

Vertebrata

**C** Arthropod Aqps automated1**D** Arthropod Aqps gappyout**G** Arthropod Aqps nogaps**E** Aqp1-like automated1**F** Aqp1-like gappyout**J** Arthropod Aqps 0.01 gap threshold**H** Arthropod Aqps 0.1 gap threshold**I** Arthropod Aqps 0.05 gap threshold**M** Aqp1-like 0.01 gap threshold**K** Aqp1-like 0.1 gap threshold**L** Aqp1-like 0.05 gap threshold