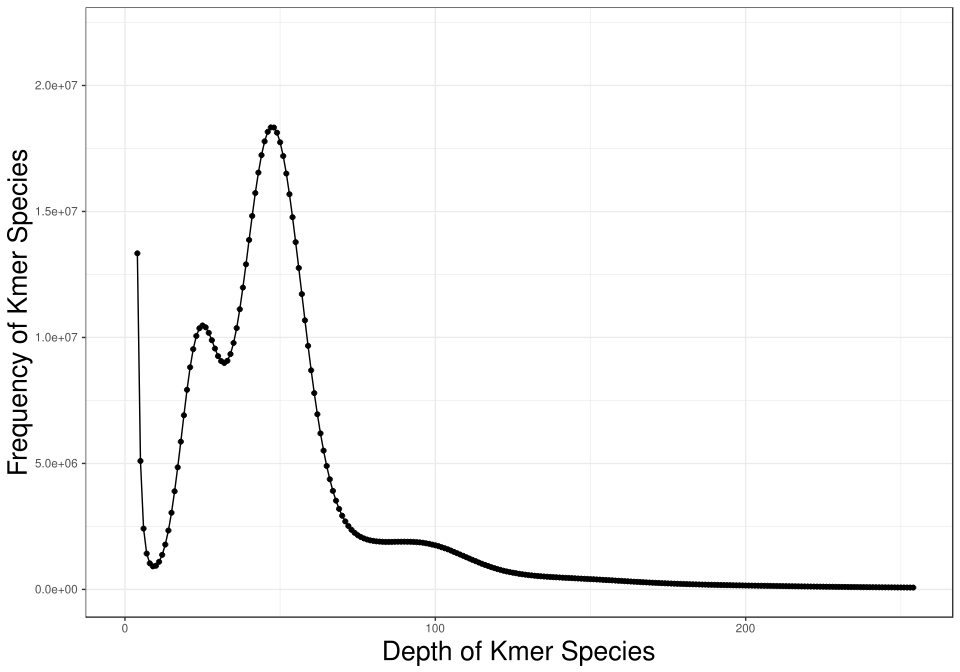


Figure 1. A picture of *C. sonnerati*



**Figure 2. The genome survey of *C. sonnerati* using 17-mer analysis.** The peaks of heterozygous, homozygous and repeated 17-mers are highlighted in the plot.

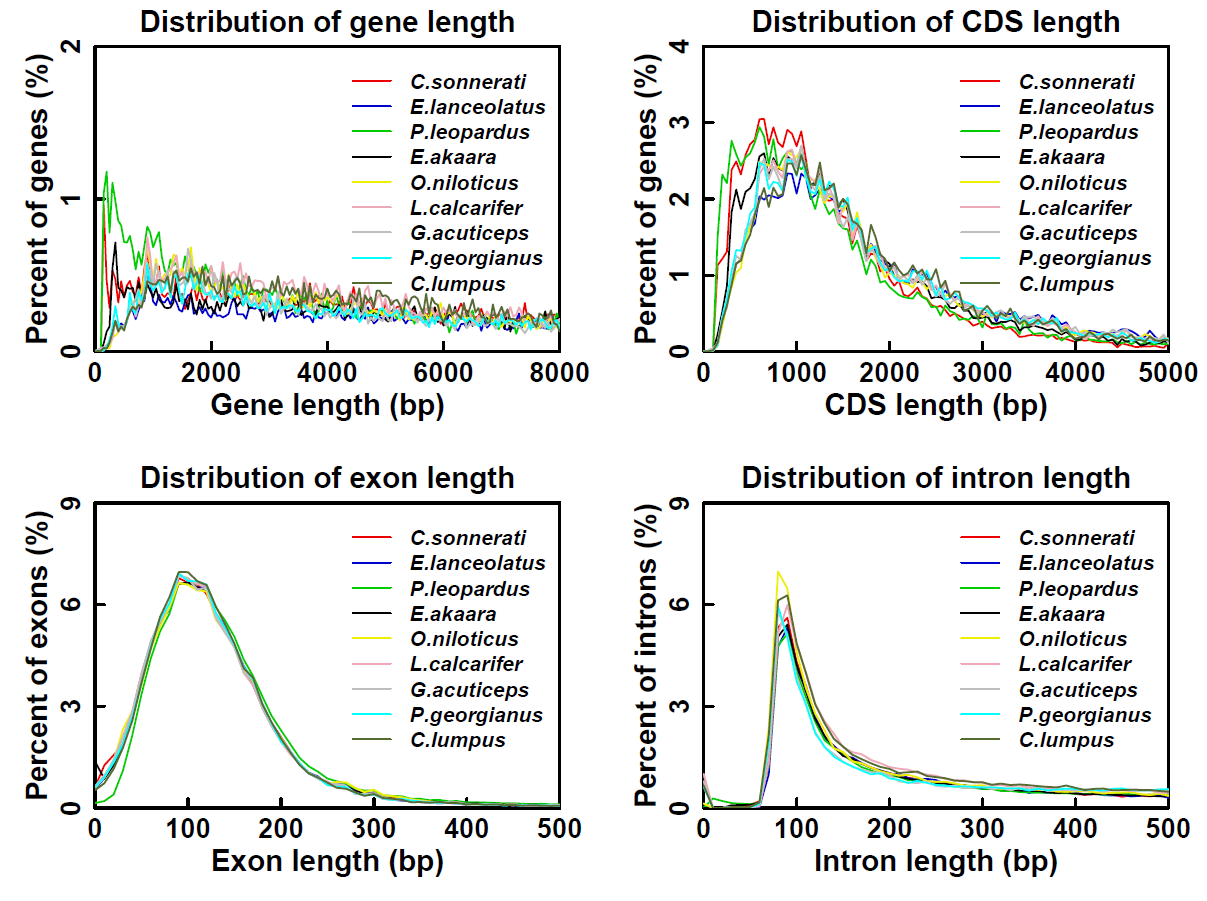


Figure 3. Comparisons of the distribution of gene, CDS, exon and intron length for protein-coding genes between the genomes of *C. sonnerati* and other teleosts.

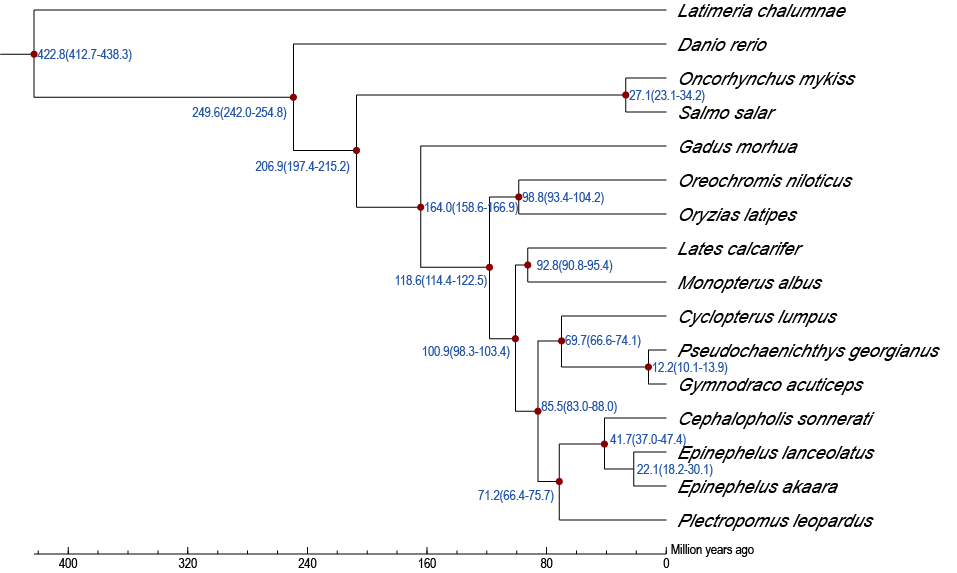


Figure 4. Divergence time tree constructed using 678 single copy orthologues among *C. sonnerati* and other closely fish species. The estimated divergent time is shown at the branches of the phylogenetic tree, and the confidence intervals are depicted in parentheses.

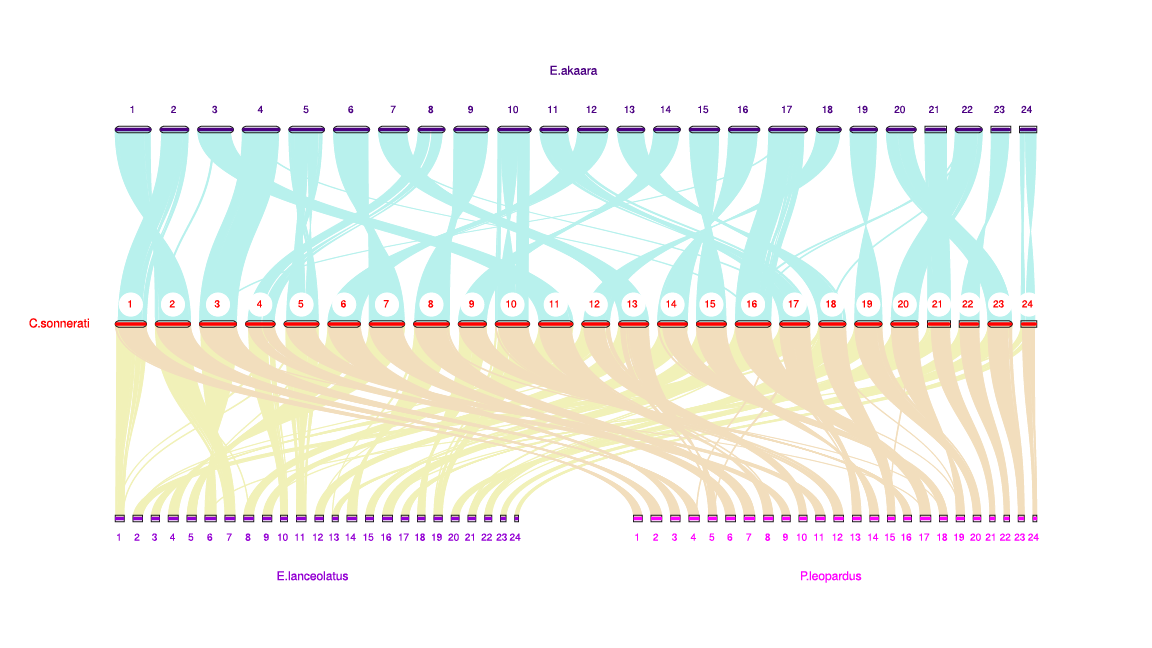


Figure 5. The whole-genome sequence alignment between *C. sonnerati* and other three groupers.

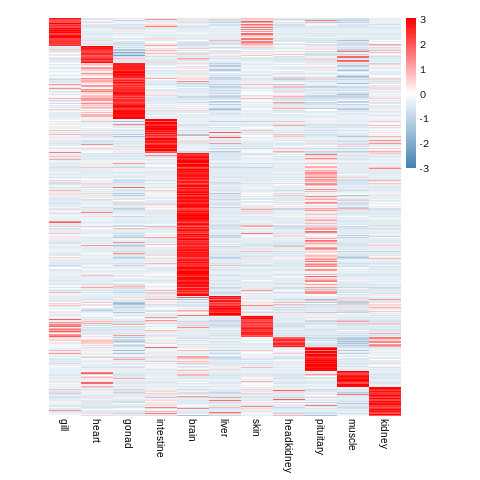


Figure 6. Heatmap of tissue-specific expression levels from 11 tissues. Genes with a tissue specificity score 1 were considered as showing tissue specificity.