

Distance Summary Result

DS-AFROPRIO (70 sequences)

Distance Summary Tables

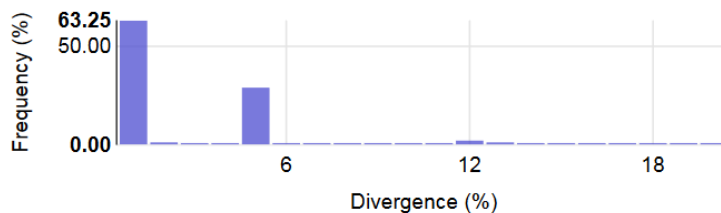
The distribution of sequence divergence at each taxonomic level is summarized below. Detailed distance tables can be downloaded by clicking on Details button for each rank.

Label	n	Taxa	Comparisons	Min Dist(%)	Mean Dist(%)	Max Dist(%)	SE Dist(%)
Within Species	42	9	234	0.00	2.02	14.34	0.01
Within Genus	31	3	52	14.57	19.82	21.19	0.03
Within Family	53	1	1092	16.68	26.41	32.35	0.00

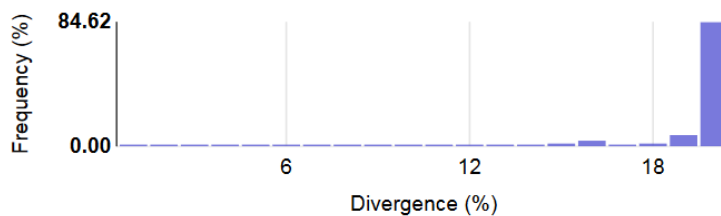
Distance Summary Graphs

Sequence divergence for all sequences compared at the species and genus levels.

Within Species



Within Genus



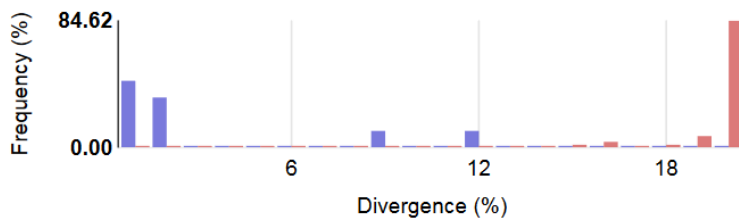
Normalized Results

The within-species distribution is normalized to reduce bias in sampling at the species level. The table below summarizes this distribution, while the histogram plots the distribution of normalized divergence for species (blue) against the genus divergences (red).

Normalized Divergence Statistics

Quantity	Value
Species Count	9
Mean Within-Species Dist (%)	2.83
SE of Mean Within-Species Dist (%)	0.45
Min Between-species Dist (%)	14.57

Normalized Divergence Histogram



Analysis description



The Distance Summary reports the sequence divergence between barcode sequences at the species, genus and family level, and also contrasts the distribution of within-species divergence to between-species divergence.

Distance Model: Kimura 2 Parameter

Marker: COI-5P

Deletion Method: Pairwise Deletion

Minimum Complete Columns: 0

Group By: Geography: GPS

Alignment: BOLD Aligner (Amino Acid based HMM)

Filters Applied: ≥ 200 bp only