**Figure S1.** Strict consensus tree resulting from Bayesian inference phylogenetic

analysis of Barcoding sequence data set of species of the Echinorhynchida and Polymorphida. Families of Echinorhynchida and Polymorphida according to Lisitsyna et al. (2015, 2019a), Huston et al. (2020a, b), Sharifdini et al. (2020) and Huston and Smales (2020, 2021). Subfamilies of Rhadinorhynchidae based on WoRMS (2023) (<https://www.marinespecies.org/aphia.php?p=taxdetails&id=20351> ).

Branch length scale bar at lower left indicates nucleotide substitutions per site. GenBank accession numbers following species names are cross-referenced in Table 1 and Online supplementary Table S2. Filled black circles represent posterior probability values ≥ 0.95.

