



Online Appendix 4: The analyses of compositional heterogeneity of 3rd positions included in the mitochondrial dataset (A-C) as well as of only the 3rd positions of the mitochondrial protein-coding genes (D-F) for Ampharetidae (grey squares), Alvinellidae (grey diamonds), Pectinariidae (open circles), Trichobranchidae and Terebellidae (both open triangles) as well as the mean values of the outgroup taxa (black bar). (A, D) Taxon-specific relative composition frequency variability (RCFV). (B, E) Absolute deviation from mean frequency for adenine (A), cytosine (C), guanine (G), and thymine (T) as well as combinations of adenine/thymine (AT) or guanine/cytosine (GC) and of pyrimidines (Y) or purines (R). (C, F) Skew values within the combinations adenine/thymine (A-T), guanine/cytosine (G-C), purines (A-G) and pyrimidines (C-T).