**Additional file 5: Table S5** Summary of sperm characteristics in Group II.

**Table S5** Summary of sperm characteristics in Group II.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sperm characteristics | *Dendrochirus zebra* | *Sebastes cheni* | *Sebastiscus marmoratus* | Statistics | |
| χ22 | P |
| Total length (μm) | 25.65 ± 2.15a (7, 117) | 31.8 ± 0.39b (6, 89) | 23.92 ± 0.32c (7, 88) | 42.60 | < 0.0001 |
| Flagellum length (μm) | 22.95 ± 2.25a (7, 114) | 27.93 ± 0.4b (6, 82) | 21.44 ± 0.35a (7, 83) | 35.05 | < 0.0001 |
| Head length (μm) | 2.7 ± 0.12a (7, 117) | 3.85 ± 0.22b (6, 83) | 2.49 ± 0.08c (7, 85) | 59.35 | < 0.0001 |
| Head width (μm) | 2.85 ± 0.13a (7, 114) | 1.88 ± 0.12b (6, 85) | 1.95 ± 0.06b (7, 87) | 60.96 | < 0.0001 |
| Midpiece length (μm) | 1.10 ± 0.18a (7, 96) | 1.24 ± 0.10a (6, 82) | 0.73 ± 0.20b (7, 87) | 21.90 | 0.007 |
| Midpiece width (μm) | 1.49 ± 0.41 (7, 96) | 1.69 ± 0.11 (6, 82) | 1.40 ± 0.19 (7, 83) | 4.01 | 0.134 |
| Head length / head width | 0.94 ± 0.03a (7, 111) | 2.08 ± 0.07b (6, 82) | 1.29 ± 0.07c (7, 84) | 88.60 | < 0.0001 |
| Midpiece length / midpiece width | 0.82 ± 0.16a (7, 92) | 0.75 ± 0.06a (6, 80) | 0.53 ± 0.15b (7, 82) | 12.89 | 0.002 |
| Swimming speed (μm/s) | 29.75 ± 4.86a (7, 184) | 63.43 ± 12.16b (6, 119) | 61.05 ± 17.29b (6, 136) | 14.93 | 0.0006 |

All values represent mean ± SD. Brackets show the number of individuals (left) and sperm (right) used for the analyses. Different superscripts indicate significant differences in each sperm characteristic between the species (LMMs with sequential Bonferroni correction, P < 0.05).