**Table S4**: Pairwise genetic distance matrix (*16S*) for major clades in the Pelagiidae. Values below the diagonal are minimum pairwise genetic distances computed using the Kimura 2-parameter substitution model (Kimura 1980) in MEGA 7.0.14 (Kumar, Stecher & Tamura 2016). Values in bold represent maximum within clade divergences. Column/row numbers represent major taxa/clades: 1. *Chrysaora achlyos*, 2. *C. africana*, 3. *C. chesapeakei*, 4. *Chrysaora* c.f. *chesapeakei*, 5. *C. chinensis*, 6. *C. colorata*, 7. *C. fulgida*, 8. *C. fuscescens*, 9. *C. hysoscella*, 10. *C. lactea*, 11. *C. melanaster*, 12. *C. pacifica*, 13. *C. plocamia*, 14. *C. quinquecirrha*, 15. *Pelagia benovici*, 16. *P. noctiluca*, 17. *Sanderia malayensis,* 18*. Cyanea capillata*.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 0.186 | **0.000** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 0.202 | 0.137 | **0.019** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 0.218 | 0.137 | 0.029 | **0.029** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 0.244 | 0.218 | 0.188 | 0.198 | **0.002** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 0.014 | 0.191 | 0.213 | 0.218 | 0.253 | **-** |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 0.188 | 0.123 | 0.080 | 0.073 | 0.217 | 0.194 | **0.014** |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 0.044 | 0.186 | 0.204 | 0.207 | 0.236 | 0.048 | 0.188 | - |  |  |  |  |  |  |  |  |  |  |
| 9 | 0.210 | 0.118 | 0.073 | 0.068 | 0.217 | 0.216 | 0.029 | 0.207 | **0.002** |  |  |  |  |  |  |  |  |  |
| 10 | 0.199 | 0.121 | 0.108 | 0.108 | 0.228 | 0.208 | 0.087 | 0.210 | 0.099 | **-** |  |  |  |  |  |  |  |  |
| 11 | 0.05 | 0.185 | 0.186 | 0.186 | 0.227 | 0.057 | 0.185 | 0.042 | 0.201 | 0.196 | - |  |  |  |  |  |  |  |
| 12 | 0.201 | 0.074 | 0.144 | 0.147 | 0.217 | 0.204 | 0.132 | 0.191 | 0.13 | 0.125 | 0.193 | **0.006** |  |  |  |  |  |  |
| 13 | 0.194 | 0.118 | 0.075 | 0.070 | 0.214 | 0.199 | 0.012 | 0.191 | 0.029 | 0.087 | 0.188 | 0.125 | **0.004** |  |  |  |  |  |
| 14 | 0.190 | 0.106 | 0.084 | 0.086 | 0.203 | 0.193 | 0.062 | 0.187 | 0.073 | 0.075 | 0.187 | 0.111 | 0.061 | **0.002** |  |  |  |  |
| 15 | 0.199 | 0.106 | 0.16 | 0.158 | 0.223 | 0.204 | 0.138 | 0.196 | 0.143 | 0.133 | 0.175 | 0.113 | 0.13 | 0.133 | **0.004** |  |  |  |
| 16 | 0.214 | 0.262 | 0.266 | 0.266 | 0.339 | 0.214 | 0.109 | 0.21 | 0.263 | 0.316 | 0.211 | 0.29 | 0.269 | 0.263 | 0.258 | **0.021** |  |  |
| 17 | 0.172 | 0.106 | 0.13 | 0.138 | 0.212 | 0.175 | 0.109 | 0.167 | 0.121 | 0.097 | 0.162 | 0.109 | 0.109 | 0.106 | 0.092 | 0.286 | **-** |  |
| 18 | 0.242 | 0.217 | 0.204 | 0.212 | 0.288 | 0.257 | 0.220 | 0.237 | 0.220 | 0.249 | 0.231 | 0.22 | 0.217 | 0.222 | 0.225 | 0.279 | 0.220 | **-** |