**Table S3**: Pairwise genetic distance matrix (*COI*) for major clades/species 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 species /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. *Chrysaora* sp. 1, 16. *Pelagia benovici*, 17. *P. noctiluca*, 18. *Sanderia malayensis,* 19*. Cyanea capillata*.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 0.204 | **0.005** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 0.215 | 0.193 | **0.022** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 0.197 | 0.197 | 0.062 | **0.051** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 0.233 | 0.222 | 0.222 | 0.222 | **0.000** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 0.094 | 0.222 | 0.222 | 0.219 | 0.240 | **-** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 0.193 | 0.189 | 0.134 | 0.127 | 0.214 | 0.217 | **0.013** |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 0.122 | 0.199 | 0.201 | 0.212 | 0.230 | 0.134 | 0.199 | **-** |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 0.208 | 0.197 | 0.110 | 0.128 | 0.201 | 0.228 | 0.083 | 0.212 | **0.002** |  |  |  |  |  |  |  |  |  |  |
| 10 | 0.212 | 0.206 | 0.181 | 0.151 | 0.208 | 0.235 | 0.143 | 0.206 | 0.152 | **-** |  |  |  |  |  |  |  |  |  |
| 11 | 0.120 | 0.193 | 0.208 | 0.210 | 0.210 | 0.129 | 0.204 | 0.140 | 0.195 | 0.239 | **0.013** |  |  |  |  |  |  |  |  |
| 12 | 0.210 | 0.181 | 0.185 | 0.170 | 0.206 | 0.240 | 0.170 | 0.219 | 0.162 | 0.166 | 0.216 | **0.005** |  |  |  |  |  |  |  |
| 13 | 0.212 | 0.197 | 0.142 | 0.146 | 0.230 | 0.224 | 0.066 | 0.206 | 0.098 | 0.147 | 0.219 | 0.174 | **0.010** |  |  |  |  |  |  |
| 14 | 0.191 | 0.149 | 0.121 | 0.129 | 0.202 | 0.213 | 0.122 | 0.196 | 0.130 | 0.143 | 0.180 | 0.174 | 0.146 | **0.003** |  |  |  |  |  |
| 15 | 0.186 | 0.183 | 0.191 | 0.178 | 0.193 | 0.239 | 0.178 | 0.205 | 0.187 | 0.168 | 0.205 | 0.138 | 0.204 | 0.191 | **-** |  |  |  |  |
| 16 | 0.246 | 0.230 | 0.203 | 0.211 | 0.203 | 0.251 | 0.216 | 0.240 | 0.211 | 0.239 | 0.218 | 0.208 | 0.220 | 0.220 | 0.211 | **0.003** |  |  |  |
| 17 | 0.244 | 0.267 | 0.250 | 0.263 | 0.245 | 0.266 | 0.278 | 0.237 | 0.263 | 0.252 | 0.279 | 0.252 | 0.268 | 0.246 | 0.251 | 0.269 | **0.053** |  |  |
| 18 | 0.262 | 0.217 | 0.228 | 0.228 | 0.232 | 0.282 | 0.219 | 0.248 | 0.224 | 0.233 | 0.273 | 0.191 | 0.210 | 0.212 | 0.208 | 0.142 | 0.251 | **-** |  |
| 19 | 0.250 | 0.238 | 0.228 | 0.198 | 0.212 | 0.250 | 0.230 | 0.217 | 0.223 | 0.227 | 0.232 | 0.229 | 0.217 | 0.206 | 0.244 | 0.229 | 0.275 | 0.237 | **-** |