**Table S5**: Pairwise genetic distance matrix (*28S*) for major clades in the Pelagiidae. Values below the diagonal are minimum pairwise genetic distances computed using 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 | 0.056 | **0.000** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 0.084 | 0.073 | **0.007** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 0.086 | 0.074 | 0.001 | **0.003** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 0.076 | 0.065 | 0.097 | 0.100 | **0.000** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 0.001 | 0.057 | 0.085 | 0.088 | 0.074 | **-** |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 0.089 | 0.078 | 0.017 | 0.018 | 0.110 | 0.090 | **0.002** |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 0.003 | 0.057 | 0.084 | 0.086 | 0.078 | 0.004 | 0.089 | **-** |  |  |  |  |  |  |  |  |  |  |
| 9 | 0.083 | 0.078 | 0.023 | 0.024 | 0.102 | 0.084 | 0.010 | 0.084 | **0.001** |  |  |  |  |  |  |  |  |  |
| 10 | 0.084 | 0.072 | 0.011 | 0.010 | 0.099 | 0.085 | 0.019 | 0.084 | 0.024 | **-** |  |  |  |  |  |  |  |  |
| 11 | 0.010 | 0.062 | 0.090 | 0.093 | 0.079 | 0.011 | 0.095 | 0.012 | 0.088 | 0.090 | **-** |  |  |  |  |  |  |  |
| 12 | 0.058 | 0.033 | 0.083 | 0.085 | 0.074 | 0.059 | 0.089 | 0.059 | 0.092 | 0.085 | 0.061 | **-** |  |  |  |  |  |  |
| 13 | 0.084 | 0.078 | 0.024 | 0.025 | 0.110 | 0.085 | 0.009 | 0.084 | 0.012 | 0.025 | 0.090 | 0.088 | **0.000** |  |  |  |  |  |
| 14 | 0.090 | 0.083 | 0.025 | 0.024 | 0.104 | 0.092 | 0.027 | 0.090 | 0.028 | 0.020 | 0.097 | 0.091 | 0.027 | **0.000** |  |  |  |  |
| 15 | 0.074 | 0.050 | 0.093 | 0.095 | 0.087 | 0.073 | 0.095 | 0.072 | 0.102 | 0.096 | 0.083 | 0.051 | 0.095 | 0.101 | **0.002** |  |  |  |
| 16 | 0.078 | 0.084 | 0.105 | 0.108 | 0.103 | 0.076 | 0.115 | 0.078 | 0.108 | 0.104 | 0.083 | 0.088 | 0.109 | 0.104 | 0.100 | **0.002** |  |  |
| 17 | 0.094 | 0.081 | 0.101 | 0.103 | 0.102 | 0.093 | 0.107 | 0.091 | 0.111 | 0.102 | 0.103 | 0.091 | 0.107 | 0.102 | 0.069 | 0.116 | **-** |  |
| 18 | 0.097 | 0.093 | 0.121 | 0.124 | 0.109 | 0.098 | 0.125 | 0.098 | 0.129 | 0.118 | 0.099 | 0.106 | 0.129 | 0.128 | 0.107 | 0.122 | 0.138 |  |