**Appendix 2.** Analysis of molecular variance (AMOVA) among six *Thalassiosira pseudonana* populations based on AFLP data.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Proportion of Variance (%)** | **Φ-statistic** | ***P*** |
| Between groups1 | 42.33 | ΦCT = 0.42332 | 0.06 |
| Between populations,  within groups | 30.92 | ΦSC = 0.53620 | 0.004 |
| Within populations | 26.75 | ΦST = 0.73253 | <0.001 |

1AMOVA groupings were the three clusters as shown in Fig. 2