**Consensus thermotolerance ranking for 110 *Symbiodinium* phylotypes: an exemplar utilization of a novel iterative partial rank aggregation tool with broad application potential**

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**Table S4.** Description of five simulated data sets with *a priori* known complete rankings and assessment metrics of IPRAPA accuracy. Each dataset (1–5) is comprised of a designated number of partial lists, phylotypes, possible pairwise comparisons, known unique pairs, and % of pairs known *a priori*. IPRAPA reconstructs a ranking that was assessed for the total number of correctly predicted pairs, % of unknown pairs correctly predicted (β), % of all pairs correct (Σ), total uncertainty (Δ), and the position error (Perr).

**Table S4**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Simulated dataset | # partial lists | # of phylotypes | Possible pairwise comparisons | Known unique pairs | % Pairs known | Total # correct pairs | % Unknown pairs correct (β) | % All pairs correct (Σ) | Total uncertainty (Δ) | Position error (Perr) |
| 1 | 37 | 110 | 11990 | 1930 | 16.10 | 9980 | 80.02 | 83.24 | 9.29 | 12.49 |
| 2 | 29 | 72 | 5112 | 1294 | 25.31 | 4496 | 83.87 | 87.95 | 14.70 | 6.39 |
| 3 | 34 | 86 | 7310 | 3756 | 51.38 | 6934 | 89.42 | 94.86 | 5.63 | 3.31 |
| 4 | 58 | 86 | 7310 | 5646 | 77.24 | 7052 | 84.50 | 96.47 | 3.98 | 2.33 |
| 5 | 58 | 249 | 61752 | 53660 | 86.90 | 60620 | 86.01 | 98.17 | 1.86 | 3.49 |