**Table S4.** Parameter estimates with 95% confidence intervals from thermal performance curves of sand dollars and sea urchins. Topt = optimum temperature (◦C); Tbr = thermal breadth (◦C) and; rmax = maximum rate. Parameters that differ significantly between acclimation treatments are shown in bold.

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| --- | --- | --- | --- |
| Variable | Parameter | Sand dollars | Red urchins |
| Fertilization rate | topt | 17.571 (15.690, 18.610) | 16.661 (15.704, 17.215) |
|  | **Tbr** | 18.327 (17.638, 19.5) | 16.042 (15.461,16.052) |
|  | rmax | 91.265 (87.918, 94.409) | 84.033 (79.967, 88.489) |
| Sperm velocity | **topt** | 13.881 (12.326,14.706) | 19.41 (18.22, 20.86) |
|  | **Tbr** | 9.664 (7.196,12.258) | 14.176 (12.6197, 16.647) |
|  | **rmax** | 274.015 (246.347, 293.837) | 160.663 (149.699,174.919) |
| Sperm motility | topt | 13.082 (9.118,14.742) | 10.86 (8,14.527) |
|  | Tbr | 12.521 (10.275, 14.570) | 11.886 (6.374,13.739) |
|  | rmax | 72.489 (66.278, 79.093) | 80.25 (71.77, 86.79) |