**Treatment protocol:**

Axenic cultures (1 L in L11 media, 35 ppt) of the diatom *Thalassiosira pseudonana* CCMP1335 were grown at different temperatures of 14, 20, and 28°C under 120 µmol photons m-2 s-1 (ULM-500 Light Meter, Walz) and a 16:8 h light:dark cycle (four replicates for each treatment). They were harvested in late exponential growth phase by filtration onto 2.0 µm Isopore filters (1 L) and stored at -20°C for later experimentation. Diatom cells were rinsed from filters into 10 mL sterile L1 media, sonicated to lyse cells for 20 min, and passed through a pre-combusted GF/F filter. *R. pomeroyi* was inoculated into 2.7 mL of the endometabolome samples (~3 x 107 cells mL-1) and grown for 10 h.

References:

*1* Guillard, R. R. L. & Hargraves, P. E. *Stichochrysis immobilis* is a diatom, not a chyrsophyte. *Phycologia* **32**, 234-236 (1993)