**Treatment protocol:**

Six treatment combinations of a marine diatom strain *Thalassiosira pseudonana* CCMP1335 were prepared: treatments incubated axenically at either 14, 20, or 28 oC, and treatments co-cultured with a bacterial strain *Ruegeria pomeroyi* DSS-3 at the corresponding temperatures (four replicates for each). L1 media*1* was used with NaH13CO3 as a source of bicarbonate and a salinity of 35 ppt. The diatom used for the co-cultured treatments was B12 stressed to emphasize the known co-existing system*2*. The light cycle consisted of 16 h light (120 µmol photons m-2 s-1) and 8 h of dark.

References:

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

*2* Durham, B. P. Cryptic carbon and sulfur cycling between surface ocean plankton. *Proc Nat Acad Sci*, 112(2):453-457 (2015)