

Supplemental Table.

Table S3: Result of the post-hoc statistical analysis of the fatty acids [FA] amino acids [AA] measured in the diatom *Cylindrotheca fusiformis*. The values given are p values. Values with $p < 0.05$ are presented in bold. All treatment combinations are listed. PUFA, MUFA and SFA are poly, mono and saturated fatty acids, respectively. EA and NEA stand for essential and non-essential amino acids.

Treatment Combination (pCO ₂ :Temperature)	Fatty Acids			Amino Acids	
	PUFA	MUFA	SFA	EA	NEA
380:14-180:14	0.003	0.999	0.002	0.039	0.039
750:14-180:14	0.250	0.999	0.085	0.998	0.998
180:19-180:14	0.016	1.000	0.113	0.187	0.187
380:19-180:14	0.001	0.759	0.004	0.202	0.202
750:19-180:14	0.025	0.849	0.122	0.020	0.020
750:14-380:14	0.132	0.975	0.299	0.075	0.075
180:19-380:14	0.289	1.000	0.234	0.987	0.987
380:19-380:14	0.980	0.913	0.998	0.891	0.891
750:19-380:14	0.763	0.961	0.219	0.998	0.998
180:19-750:14	0.994	0.989	1.000	0.310	0.310
380:19-750:14	0.043	0.547	0.492	0.351	0.351
750:19-750:14	0.709	0.653	1.000	0.038	0.038
380:19-180:19	0.102	0.866	0.401	0.999	0.999
750:19-180:19	0.938	0.931	1.000	0.909	0.909
750:19-380:19	0.385	1.000	0.378	0.687	0.687