

Electronic Supplementary Material

Warming decreases bioconversion of polyunsaturated fatty acids in chironomid larvae maintained on cyanobacterium *Microcystis*

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Table S1. Pairwise comparisons of ARA w% in *Chironomus* (based on estimated marginal means) fed with *Micro20*, *Micro25* or Tetramin[®] diet at different experimental temperatures (20 °C and 25 °C). Diets with significant difference between the experimental temperatures are bolded.

Diet	(I) Experimental temperature	(J) Experimental temperature	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
						Lower Bound	Upper Bound
<i>Micro20</i>	20 °C	25 °C	2.020	0.507	0.001	0.971	3.069
<i>Micro25</i>	20 °C	25 °C	2.019	0.507	0.001	0.970	3.068
Tetramin	20 °C	25 °C	-0.052	0.538	0.924	-1.164	1.061

b. Adjustment for multiple comparisons: LSD (equivalent to no adjustments).

Table S2. Pairwise comparisons of arcsine square root transformed EPA w% in *Chironomus* (based on estimated marginal means) fed with *Micro20*, *Micro25* or Tetramin[®] diet at different experimental temperatures (20 °C and 25 °C). Diet with significant difference between the experimental temperatures is bolded.

Diet	(I) Experimental temperature	(J) Experimental temperature	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
						Lower Bound	Upper Bound
<i>Micro20</i>	20 °C	25 °C	0.015	0.009	0.098	-0.003	0.033
<i>Micro25</i>	20 °C	25 °C	0.027	0.009	0.005	0.009	0.045
Tetramin	20 °C	25 °C	-0.005	0.009	0.594	-0.024	0.014

b. Adjustment for multiple comparisons: LSD (equivalent to no adjustments).

Table S3. Pairwise comparisons of total fatty acid content ($\mu\text{g mg}^{-1}$) in *Chironomus* (based on estimated marginal means) fed with *Micro20*, *Micro25* or Tetramin[®] diet at different experimental temperatures (20 °C and 25 °C). Diets with significant difference between the experimental temperatures are bolded.

Diet	(I) Experimental temperature	(J) Experimental temperature	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
						Lower Bound	Upper Bound
<i>Micro20</i>	20 °C	25 °C	5.526	2.456	0.034	0.446	10.606
<i>Micro25</i>	20 °C	25 °C	5.098	2.456	0.049	0.018	10.178
Tetramin	20 °C	25 °C	30.128	2.604	< 0.001	24.740	35.516

b. Adjustment for multiple comparisons: LSD (equivalent to no adjustments).

Table S4. Pairwise comparisons of the dry weight (mg ind^{-1}) in *Chironomus* (based on estimated marginal means) fed with *Micro20*, *Micro25* or Tetramin[®] diet at different experimental temperatures (20 °C and 25 °C). Diet with significant difference between the experimental temperatures is bolded.

Diet	(I) Experimental temperature	(J) Experimental temperature	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
						Lower Bound	Upper Bound
<i>Micro20</i>	20 °C	25 °C	-0.035	0.014	0.017	-0.064	-0.007
<i>Micro25</i>	20 °C	25 °C	-0.023	0.014	0.108	-0.051	0.005
Tetramin	20 °C	25 °C	0.019	0.015	0.208	-0.049	0.011

b. Adjustment for multiple comparisons: LSD (equivalent to no adjustments).