

Supplementary Materials: Ocean Warming May Enhance Biochemical Alterations Induced by an Invasive Seaweed Exudate in the Mussel *Mytilus galloprovincialis*

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Table S1. Results for two-way ANOVA analysis on biochemical biomarkers responses in the gills of *Mytilus galloprovincialis* with *A. armata* exudate exposure and water temperature as factors.

Biomarker.	Factor	df	F	p	% of Total Variation
CAT	Exudate	1, 24	0.95	0.33	2.94
	Temperature	1, 24	2.02	0.16	6.22
	Interaction	1, 24	5.47	0.03	16.85
GST	Exudate	1, 24	0.28	0.60	0.88
	Temperature	1, 24	4.66	0.04	14.80
	Interaction	1, 24	2.55	0.12	8.10
tGSH	Exudate	1, 20	6.35	0.02	18.91
	Temperature	1, 20	8.67	0.01	25.8
	Interaction	1, 20	0.15	0.70	0.45
LPO	Exudate	1, 24	4.45	0.08	14.11
	Temperature	1, 24	0.27	0.27	4.05
	Interaction	1, 24	0.19	0.45	5.69
PC	Exudate	1, 24	0.01	0.91	0.04
	Temperature	1, 24	0.30	0.59	1.13
	Interaction	1, 24	2.54	0.12	9.45
AChE	Exudate	1, 23	157	<0.01	43.75
	Temperature	1, 23	0.09	0.77	0.21
	Interaction	1, 23	0.68	0.42	1.63
HSP70	Exudate	1, 24	2.76	0.11	10.17
	Temperature	1, 24	0.27	0.61	0.98
	Interaction	1, 24	0.10	0.76	0.36

Table S2. Results for two-way ANOVA analysis on biochemical biomarkers responses in the digestive gland of *Mytilus galloprovincialis* with *A. armata* exudate exposure and water temperature as factors.

Biomarker	Factor	df	F	p	% of Total Variation
CAT	Exudate	1, 23	0.02	0.89	0.07
	Temperature	1, 23	4.59	0.04	16.24
	Interaction	1, 23	0.83	0.37	2.92
GST	Exudate	1, 24	0.83	0.37	2.69
	Temperature	1, 24	3.82	0.06	12.32
	Interaction	1, 24	2.33	0.14	7.53
tGSH	Exudate	1, 22	6.98	0.01	23.46
	Temperature	1, 22	1.26	0.27	4.25
	Interaction	1, 22	0.11	0.74	0.38
LPO	Exudate	1, 24	2.80	0.11	9.85
	Temperature	1, 24	1.55	0.23	5.45
	Interaction	1, 24	0.10	0.75	0.36
PC	Exudate	1, 24	5.55	0.03	13.32
	Temperature	1, 24	7.51	0.01	18.02
	Interaction	1, 24	4.61	0.04	11.06
AChE	Exudate	1, 23	4.99	0.03	10.36
	Temperature	1, 23	18.62	< 0.01	38.64
	Interaction	1, 23	0.58	0.45	1.20
HSP70	Exudate	1, 24	0.11	0.74	0.44
	Temperature	1, 24	1.02	0.32	4.01
	Interaction	1, 24	0.22	0.64	0.88

Table S3. Results for two-way ANOVA analysis on biochemical biomarkers responses in the muscle of *Mytilus galloprovincialis* with *A. armata* exudate exposure and water temperature as factors.

Biomarker	Factor	df	F	p	% of Total Variation
LPO	Exudate	1, 24	5.96	0.02	17.47
	Temperature	1, 24	0.51	0.48	1.49
	Interaction	1, 24	3.64	0.07	10.68
PC	Exudate	1, 24	8.38	0.01	23.93
	Temperature	1, 24	1.54	0.23	4.39
	Interaction	1, 24	1.08	0.31	3.10
LDH	Exudate	1, 24	2.39	0.14	8.78
	Temperature	1, 24	0.33	0.57	1.23
	Interaction	1, 24	0.47	0.50	1.73
Sugars	Exudate	1, 24	0.11	0.74	0.38
	Temperature	1, 24	4.99	0.03	17.06
	Interaction	1, 24	0.17	0.68	0.59
Lipids	Exudate	1, 24	6.30	0.02	19.41
	Temperature	1, 24	1.90	0.18	5.87
	Interaction	1, 24	0.25	0.62	0.76
Proteins	Exudate	1, 23	0.30	0.59	1.25
	Temperature	1, 23	0.01	0.94	0.02
	Interaction	1, 23	0.95	0.34	3.91
Ec	Exudate	1, 23	0.07	0.79	0.29
	Temperature	1, 23	0.24	0.63	1.01
	Interaction	1, 23	0.17	0.68	0.72
Ea	Exudate	1, 24	2.76	0.11	10.17
	Temperature	1, 24	0.62	0.62	0.93
	Interaction	1, 24	0.77	0.77	0.32