

Supplementary Materials: Interactions between Filter-Feeding Bivalves and Toxic Diatoms: Influence on the Feeding Behavior of *Crassostrea gigas* and *Pecten maximus* and on Toxin Production by *Pseudo-nitzschia*

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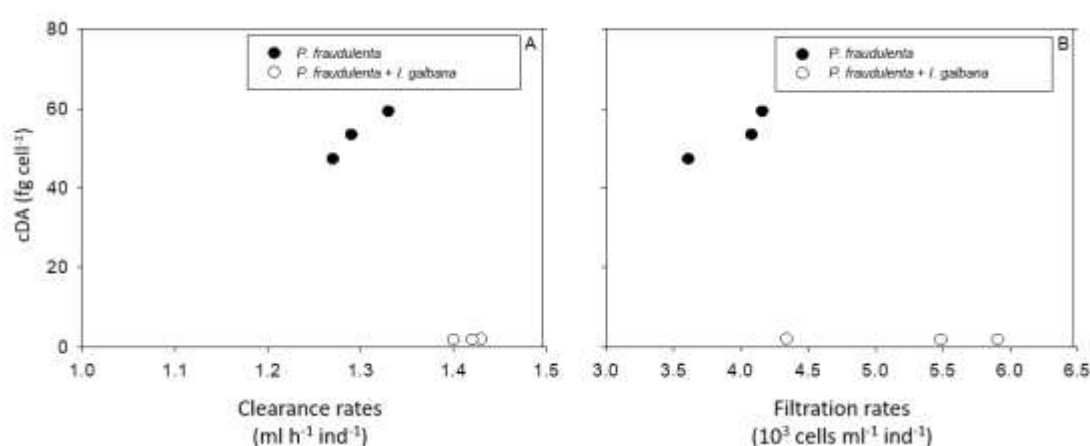


Figure S1. cDA concentrations in *P. fraudulenta* (fg cell⁻¹) as a function of the average clearance rates (mL h⁻¹ ind⁻¹, A) and the average filtration rates (cells mL⁻¹ ind⁻¹, B) of *C. gigas* over the 5 days of the experiment.

Table S1. Concentrations of dissolved domoic acid (dDA, pg mL⁻¹) in the media containing *P. australis* or *P. fraudulenta* at the beginning and the end of the exposure experiments. * significant difference with a p-value of 0.05.

			dDA (pg mL ⁻¹)	
			<i>P. fraudulenta</i>	<i>P. australis</i>
with <i>C. gigas</i>	Initial		0.04 ± 0.03	1.58 ± 0.29
	<i>Pseudo-nitzschia</i> with <i>T. galbana</i>		0.06 ± 0.02	1.59 ± 0.54
	<i>Pseudo-nitzschia</i> alone		0.05 ± 0.02	1.62 ± 0.24
	Control		0.05 ± 0.03	1.46 ± 0.27
with <i>P. maximus</i>	Initial		0.28 ± 0.08	2.15 ± 0.24
	<i>Pseudo-nitzschia</i> with <i>T. galbana</i>		0.36 ± 0.13	4.13 ± 0.90 *
	Control		0.25 ± 0.02	2.33 ± 0.07

Table S2. Nutrient concentrations ($\mu\text{mol L}^{-1}$) in the culture medium in the control, at the beginning and the end of the *C. gigas* and *P. maximus* exposure experiments.

				Nutrient concentrations (μmol L ⁻¹)		
Conditions		Time (h)		NO ₃ ⁻	PO ₄ ³⁻	Si(OH) ₄
Experiments with <i>C. gigas</i>	<u>Condition 1</u> <i>C. gigas</i> + <i>P. fraudulenta</i> + <i>T. galbana</i>	Initial	0 h	306 ± 65	22 ± 1	61 ± 5
		Final	96 h	304 ± 35	14 ± 1	34 ± 3
		Control	96 h	343 ± 9	18 ± 2	49 ± 7
	<u>Condition 2</u> <i>C. gigas</i> + <i>P. australis</i> + <i>T. galbana</i>	Initial	0 h	559 ± 23	15 ± 2	84 ± 42
		Final	120 h	475 ± 74	14 ± 1	69 ± 13
		Control	120 h	294 ± 122	8 ± 1	52 ± 2
	<u>Condition 3</u> <i>C. gigas</i> + <i>P. fraudulenta</i>	Initial	0 h	311 ± 12	16 ± 0.5	57 ± 8
		Final	96 h	305 ± 20	15 ± 1.5	32 ± 4
		Control	96 h	302 ± 22	11 ± 0.5	37 ± 3
	<u>Condition 4</u> <i>C. gigas</i> + <i>P. australis</i>	Initial	0 h	305 ± 2	16 ± 0.5	57 ± 18
		Final	120 h	237 ± 11	12 ± 0.5	54 ± 3
		Control	120 h	360 ± 31	11 ± 1	36 ± 3
Experiments with <i>P. maximus</i>	<u>Condition 1</u> <i>P. maximus</i> + <i>P. fraudulenta</i> + <i>T. galbana</i>	Initial	0 h	140 ± 16	13 ± 1	48 ± 3
		Final	6 h	117 ± 22	13 ± 3	41 ± 19
		Control	6 h	197 ± 13	14 ± 1	34 ± 7
	<u>Condition 2</u> <i>P. maximus</i> + <i>P. australis</i> + <i>T. galbana</i>	Initial	0 h	304 ± 103	11 ± 1	86 ± 15
		Final	6 h	230 ± 152	7 ± 1	33 ± 3
		Control	6 h	229 ± 39	13 ± 2	35 ± 10