

**Table S1** Results of the analysis of variance (ANOVA) and SNK multiple comparison tests for cell density, growth rate between days 0 and 8 of culture ( $\mu_{0-8}$ ) and maximum growth rate ( $\mu$ ) of *Pseudo-nitzschia multiseriata* and *Bacillaria* sp. Mean values were compared across treatments that received the addition of distinct iron (*Fe*) concentrations, in  $\text{nmol.L}^{-1}$  (Tr: +0*Fe*; +1.7*Fe*; +10*Fe*; +11,700*Fe*). For *Bacillaria* sp., an extra treatment (+1.7*Fe*+*Psm*) was created with the addition of 1.7 nmol  $\text{Fe.L}^{-1}$  and the dissolved cell content from a *P. multiseriata* culture containing 52 ng  $\text{DA.mL}^{-1}$  and other undetermined compounds. Significant terms of interest ( $\alpha = 0.05$ ) are highlighted in bold.

<i>P. multiseriata</i> cell density					<i>Bacillaria</i> sp. cell density			
	df	MS	F	p	df	MS	F	p
Tr	3	233543906	3.0955	0.0675	4	70867500	6.3477	<b>0.0176</b>
Residual	12	75446719			7	11164286		
SNK test	–				+0 <i>Fe</i> = +1.7 <i>Fe</i> = +10 <i>Fe</i> = +11,700 <i>Fe</i> = +1.7 <i>Fe</i> + <i>Psm</i>			
<i>P. multiseriata</i> growth rate ( $\mu_{0-8}$ )					<i>Bacillaria</i> sp. growth rate ( $\mu_{0-8}$ )			
	df	MS	F	p	df	MS	F	p
Tr	3	0.0098	2.5812	0.1020	4	0.0237504	20.772	<b>0.0006</b>
Residual	12	0.0038			7	0.0011434		
SNK test	–				+0 <i>Fe</i> = +1.7 <i>Fe</i> = +10 <i>Fe</i> = +11,700 <i>Fe</i> > +1.7 <i>Fe</i> + <i>Psm</i>			
<i>P. multiseriata</i> maximum growth rate ( $\mu$ )					<i>Bacillaria</i> sp. maximum growth rate ( $\mu$ )			
	df	MS	F	p	df	MS	F	p
Tr	3	0.0303	2.0327	0.1631	4	0.1992	8.057	<b>0.0093</b>
Residual	12	0.0149			7	0.0247		
SNK test	–				+0 <i>Fe</i> = +1.7 <i>Fe</i> = +10 <i>Fe</i> = +11,700 <i>Fe</i> > +1.7 <i>Fe</i> + <i>Psm</i>			

**Table S2** Results of the analysis of variance (ANOVA) and SNK multiple comparison tests for intra- and extracellular domoic acid (DA) concentrations. Mean values were compared across treatments that received the addition of distinct iron (*Fe*) concentrations, in nmol.L<sup>-1</sup> (Tr: +0*Fe*; +1.7*Fe*; +10*Fe*; +11,700*Fe*), sampling times (Tm: 4; 8; 17; 30 d), and the interaction between them. Significant terms of interest ( $\alpha = 0.05$ ) are highlighted in bold.

DA (pg.cell <sup>-1</sup> )									
	Intracellular					Extracellular			
	Df	MS	F	p	SNK	MS	F	p	SNK
Tr	3	1.89	<b>6.66</b>	<b>7.5×10<sup>-4</sup></b>	+10 <i>Fe</i> =+1.7 <i>Fe</i> =+0 <i>Fe</i> <+11,700 <i>Fe</i>	1.91	1.009	0.39	N/A*
Tm	3	33.1	<b>116.6</b>	<b>2.2×10<sup>-16</sup></b>	4<8<17<30	41.08	<b>21.60</b>	<b>5.4×10<sup>-9</sup></b>	8=4=30<17
Tr×Tm	9	0.48	1.70	0.11	N/A*	3.18	1.67	0.12	N/A*

\* N/A: not applicable.

**Table S3** Results of the analysis of variance (ANOVA) and SNK multiple comparison tests for the total (µg.L<sup>-1</sup>) and intracellular (pg.cell<sup>-1</sup>) chlorophyll-*a* concentrations in *Bacillaria* sp. cultures. Mean values were compared across treatments that received the addition of distinct iron (*Fe*) concentrations (nmol.L<sup>-1</sup>), or iron and the dissolved cell content from a *P. multiseriis* (*Psm*) culture (Tr: +0; +1.7; +10; +11,700; and +1.7+*Psm*), sampling times (Tm: 4; 8; 17; 30 d), and the interaction between them. Significant terms of interest ( $\alpha = 0.05$ ) are highlighted in bold. See methods for details.

	Total chlorophyll- <i>a</i> (µg.L <sup>-1</sup> )					Intracellular chlorophyll- <i>a</i> (pg.cell <sup>-1</sup> )			
	Df	MS	F	P	SNK	MS	F	P	SNK
Tr	4	0.55	4.19	0.012		0.86	3.30	0.03	
Tm	3	9.27	70.6	8.1×10 <sup>-11</sup>		0.41	1.57	0.22	
Tr×Tm	12	2.30	<b>17.5</b>	<b>4.8×10<sup>-8</sup></b>	Day 04: +1.7+ <i>Psm</i> =+0=+10<+1.7<+11,700 Day 08: +1.7+ <i>Psm</i> <+0<+10=+1.7<+11,700 Day 17: +1.7+ <i>Psm</i> =+11,700=+0=+10=+1,7 Day 30: +11,700<+0=+1,7<+10=+1.7+ <i>Psm</i>	0.86	<b>3.33</b>	<b>8.5×10<sup>-3</sup></b>	Day 04: +0=+1.7+ <i>Psm</i> =+10<+1.7<+11,700 Day 08: +0=+10=+1.7+ <i>Psm</i> =+1.7<+11,700 Day 17: +10=+1.7+ <i>Psm</i> =+0=+11,700=+1.7 Day 30: +11,700<+1.7=+0=+1.7+ <i>Psm</i> <+10