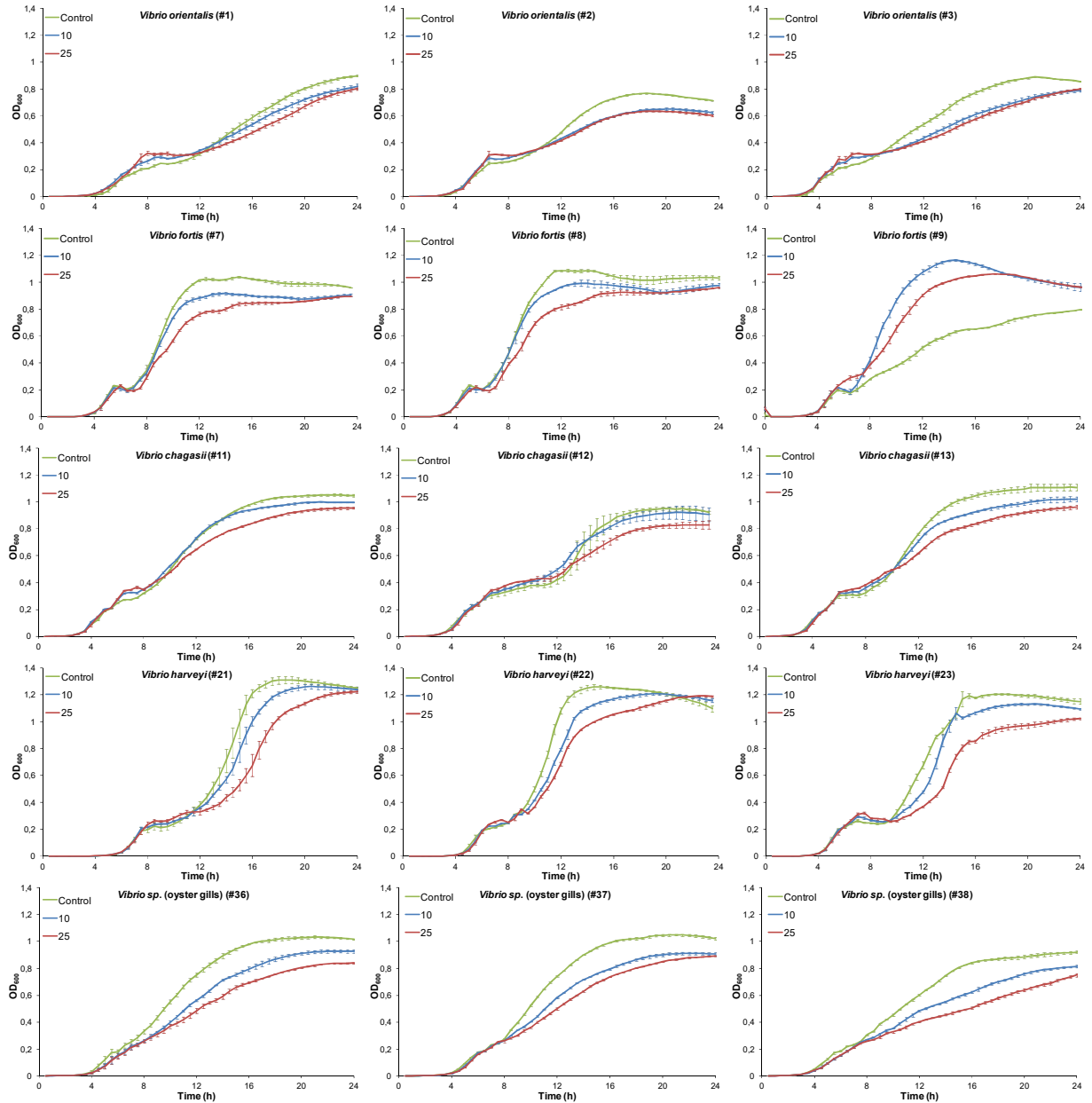
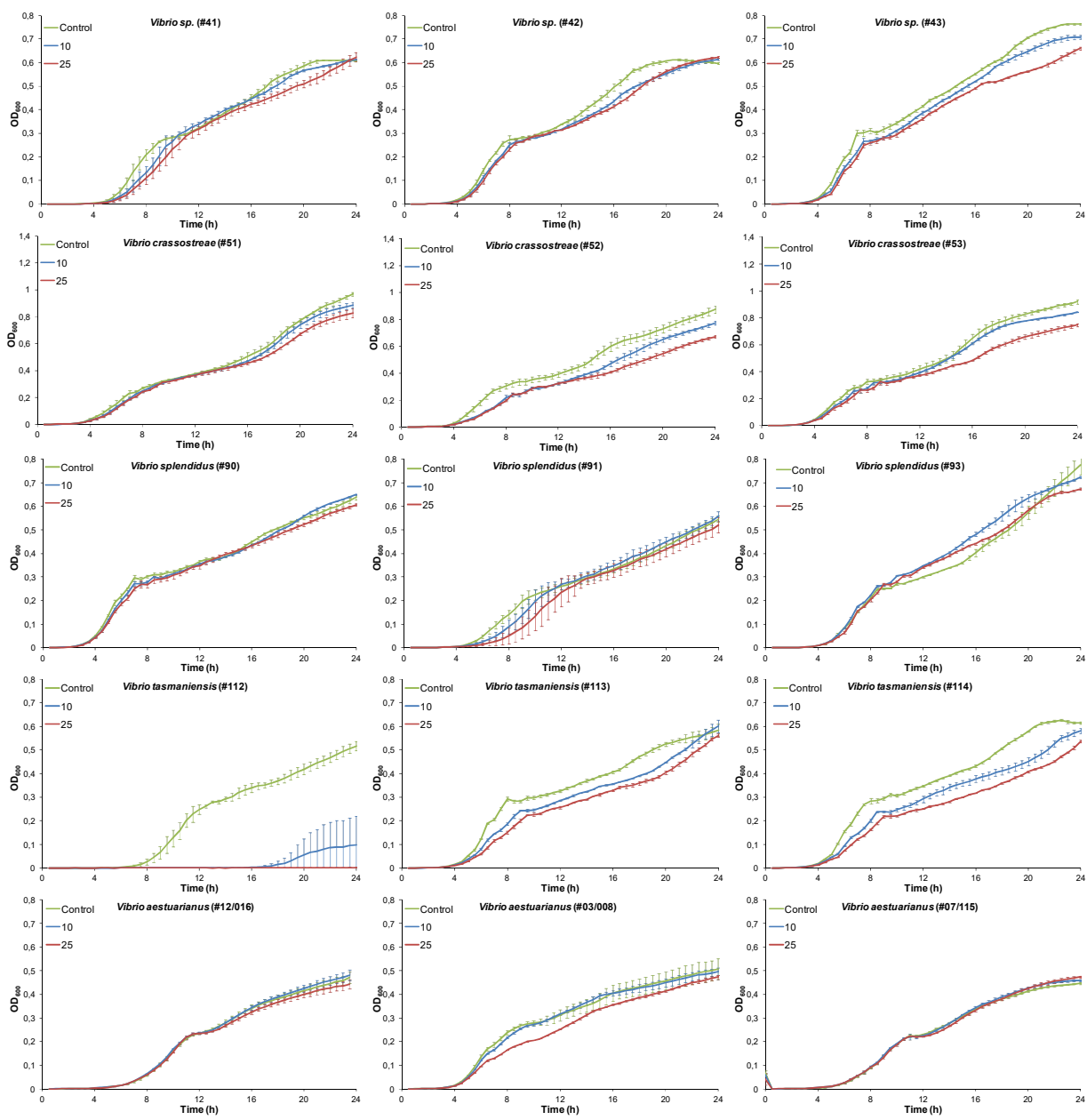
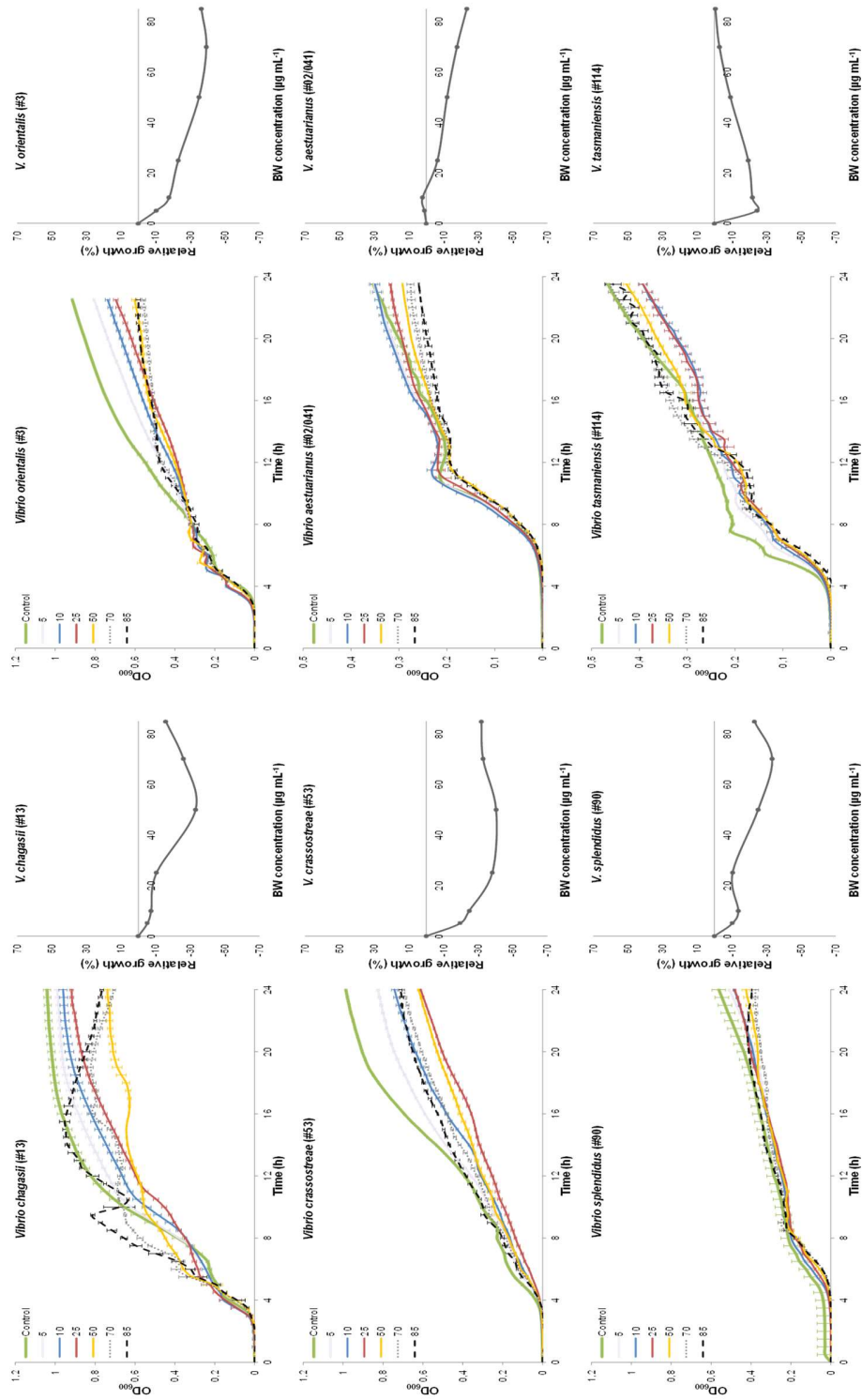


Supplementary Figure S1. Growth curves of 30 *Vibrio* strains (#) from 10 different species exposed over a 24 h period to 0, 10 or 25 $\mu\text{g mL}^{-1}$ of Blue Water (BW), the concentrated supernatant of *Haslea ostrearia* containing the extracellular marennine. Results are means \pm SE (n=3).





Supplementary Figure S2. Growth kinetics and dose-response curves of *Vibrio* strains exposed to a concentration range ($\mu\text{g mL}^{-1}$) of Blue Water (BW) over a 24 h period. Values are means \pm SD (n=3).



Supplementary Table S1. Preferential distribution, virulence to oysters and Blue Water (BW) effect over a 24 h period and over the first phase of growth of the 30 *Vibrio* strains tested.

Vibrio species strain number (#)	Preferential distribution														Virulence	BW effect at 10 µg mL ⁻¹		
	Sampling season				Sea Water (SW) Fraction				Oyster				Summary			Global Effect	1st GP stimulation	
	Early spring	Late spring	Early summer	Late summer	> 60µm	60-5µm	5-1 µm	<1 µm	Gills	Digestive gland	Hemolymph	Total	SW	Oyster				
<i>V. orientalis</i>																		
#1				x		x								x	x		-	x
#2				x			x							x	x		-	x
#3				x										x	x		-	x
<i>V. fortis</i>																		
#7				x									x	x	x		-	
#8				x							x			x	x		0	
#9				x							x			x	x		+	x
<i>V. chagasii</i>																		
#11				x									x	x	x		-	x
#12				x									x	x	x		0	
#13				x									x	x	x		0	
<i>V. harveyi</i>																		
#21			x							x				x	x		0	
#22			x									x		x	x		0	
#23				x									x	x	x		-	x
<i>V. sp (oyster gills)</i>																		
#36			x				x							x	x		-	
#37			x							x				x	x		-	
#38				x						x				x	x		-	
<i>V. sp</i>																		
#41			x			x								x	x		-	
#42				x			x							x	x		+	
#43		x				x								x	x		0	
<i>V. crassostreae</i>																		
#51			x										x	x	x	YIP	-	
#52			x										x	x	x	YIP	-	
#53				x									x	x	x	YIP	-	
<i>V. splendidus</i>																		
#90	x					x								x	x		+	
#91	x						x							x	x		0	
#93	x									x				x	x		-	
<i>V. tasmaniensis</i>																		
#112			x							x				x	x		-	
#113			x							x				x	x		-	
#114	x												x	x	x		-	
<i>V. aestuarius</i>																		
#07/115														oyster	YIP	0		
#02/041														oyster		0		
#03/008														type souche		+		

+: relative growth stimulation; -: relative growth inhibition; 0: no effect on growth