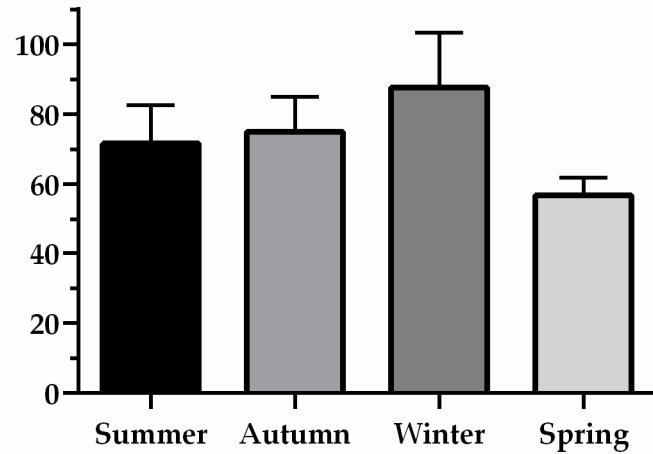


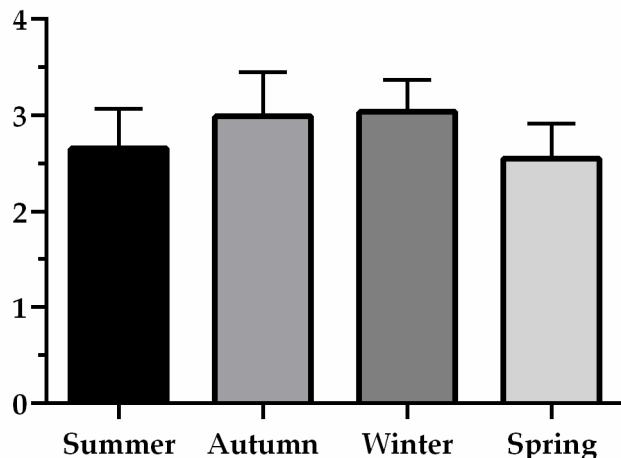
Supplementary Material:

Total weight (g)



(a)

Total height (cm)



(b)

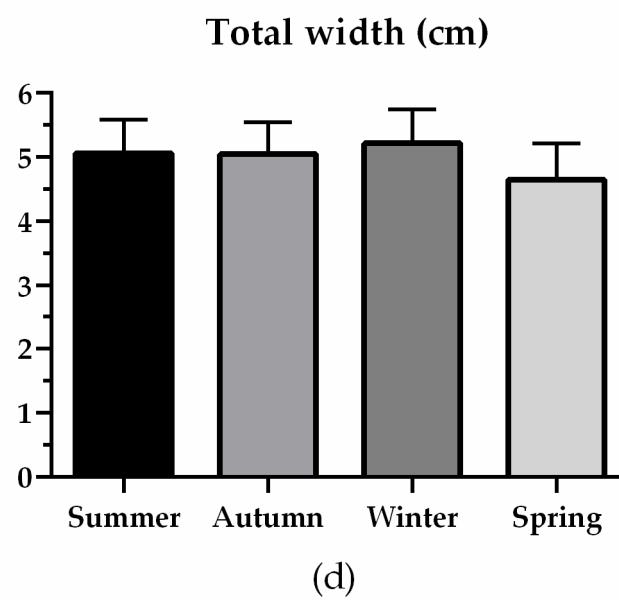
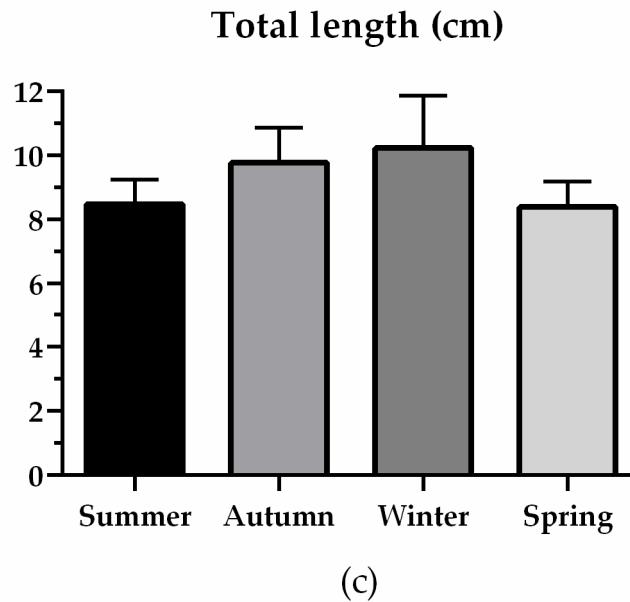


Figure S1. (a) Total weight variation in grams; (b) total height variation in centimeters, (c) total length variation in centimeters; (d) total width variation in centimeters of oysters during each season.

Table S1. Summary of the methodology used for bacteriologic analysis.

Microorganism	Method	Revitalization period			Selective period		
		Medium	T (°C)	duration	Medium	T (°C)	duration
<i>Total aerobic microorganism</i>	ISO 4833-1	BPW ^(1,2)	Room temperature ^(1,2)	1h ^(1,2)	PCA	7 ⁽¹⁾	72h
	ISO 6222	NA ⁽³⁾	NA ⁽³⁾	NA ⁽³⁾		22 ⁽³⁾	72h
						30 ^(1,2)	72h
						37 ⁽³⁾	48h

<i>Marine heterotrophic bacteria</i>	ILM	BPW ^(1,2) NA ⁽³⁾	Room temperature ^(1,2) NA ⁽³⁾	1h ^(1,2) NA ⁽³⁾	MA	21	48h
<i>E. coli</i>	ISO 16649-2 ISO 16649-3	BPW	Room temperature	1h	TBX	44	24h
<i>Salmonella</i> spp.	ISO 6579	MSRV	41,5	24h	XLD	37	24h
<i>C. perfringens</i>	ISO 7937	NA	NA	NA	TSC	37	20h
Coagulase-positive <i>Staphylococcus</i>	ISO 6888-3	BPW	Room temperature	1h	BP	37	48h
<i>Enterococcus</i> spp.	ISO 7899-2	BPW	Room temperature	1h	SB	37	48h
<i>L. monocytogenes</i>	ISO 11290-1	Half-Fraser broth	37	24h	Compass® Listeria	37	24h
Yeasts and molds	ISO 21527-2	BPW	Room temperature	1h	Sab	25	5 to 7 days
<i>Pseudomonas</i> spp.	ILM	BPW	Room temperature	1h	CFC	30	48h

⁽¹⁾ Edible portion; ⁽²⁾ Intra-valvular liquid, superficial biofilm and hemolymph, ⁽³⁾ Farming water column samples, BP: Baird-Parker medium, BPW: Buffered Peptone Water, CFC: Cephaloridine Fucidin Cetrimide medium, ILM: internal laboratory method, MA: Marine Agar medium, MSRV: Modified Semi-solid Rappaport-Vassiliadis, NA: not applicable, PCA: Plate Count Agar medium, Sab: Sabourau medium, SB: Slanetz and Bartley medium, TSC: Tryptose Sulfite Cycloserine agar, XLD: Xylose Lysine Deoxycholate agar.

Table S2. Summary of morphological parameters throughout the seasons.

Parameter	Season	Average	SD	Max	Min	95% CI		p-value
						L	U	
Total weight	Summer	71.6	10.9	103.0	55.7	66.7	76.6	****
	Autumn	75.0	9.9	88.10	48.7	71.0	79.0	
	Winter	84.3	18.5	131.7	65.9	81.2	94.1	
	Spring	56.9	5.0	67.0	49.0	55.1	58.6	
Total height	Summer	2.7	0.4	3.3	1.9	2.5	2.8	****
	Autumn	3.0	0.5	4.0	2.1	2.8	3.2	
	Winter	3.0	0.3	3.9	2.6	2.9	3.2	
	Spring	2.6	0.4	3.5	1.6	2.4	2.7	
Total length	Summer	8.4	0.8	9.6	7.3	8.1	8.8	****
	Autumn	9.8	1.1	11.7	7.5	9.3	10.2	
	Winter	10.2	1.6	12.7	3.6	9.6	10.9	
	Spring	8.4	0.8	9.8	7.2	8.1	8.7	
Total width	Summer	5.1	0.5	6.1	3.9	4.8	5.3	***
	Autumn	5.0	0.5	6.0	4.1	4.8	5.2	
	Winter	5.2	0.5	6.2	4.0	5.0	5.4	
	Spring	4.7	0.6	6.1	3.6	4.4	4.8	

SD: standard deviation, Max: maximum, Min: minimum, CI: confidence interval, L—Lower limit; U—Upper limit, * $p \leq 0.05$, ** $p \leq 0.01$, *** $p \leq 0.001$, **** $p \leq 0.0001$ p-value was calculated by one-way ANOVA.