Supplementary Materials

Supplementary Table S1 List of taxa found in the panels of predation exclusion experiment. NIS are in bold type. C: control panels; Ca: caged panels; OCa: open-caged panels.

		C	Ca	OCa
Porifera	***Paraleucilla magna* Klautau, Monteiro & Borojevic, 2004**	■	■	■
	Porifera ind.		■	
Cnidaria	*Actinia* sp.			■
	Clytia sp.	■	■	■
	Ectopleura sp.		■	
	Eudendrium sp.	■		■
	Pennaria disticha Goldfuss, 1820	■		
Annelida	***Branchiomma* sp. (see Tamburini et al. 2021)**	■	■	■
	***Branchiomma luctuosum* (Grube, 1870)**	■	■	■
	Hydroides dianthus (Verrill, 1873)	■	■	■
	***Hydroides dirampha* Mörch, 1863**	■	■	■
	***Hydroides elegans* (Haswell, 1883)**	■	■	■
	Janua sp.	■	■	■
	Simplaria sp.		■	■
	Sabella sp.	■	■	■
	Salmacina sp.	■	■	■
	Spirobranchus sp.	■		■
	Spirobranchus tetraceros (Schmarda, 1861)			■
Mollusca	*Anomia ephippium* Linnaeus, 1758	■	■	■
	Ostrea edulis Linnaeus, 1758			■
Crustacea	*Amphibalanus amphitrite amphitrite* (Darwin, 1854)	■	■	■
	***Amphibalanus eburneus* (Gould, 1841)**	■	■	■
	Perforatus perforatus (Bruguière, 1789)			■
	Aetea sp.		■	
Bryozoa	***Amathia verticillata* (Delle Chiaje, 1822)**		■	■
	Bugula neritina (Linnaeus, 1758)	■	■	■
	Bugulina fulva (Ryland, 1960)	■	■	■
	Bugulina stolonifera (Ryland, 1960)		■	
	***Celleporaria brunnea* (Hincks, 1884)**	■	■	
	Conopeum seurati (Canu, 1928)	■	■	
	Cradoscrupocellaria bertholletii (Audouin, 1826)	■	■	■
	Cradoscrupocellaria reptans (Linnaeus, 1758)			■
	Crisia denticulata (Lamarck, 1816)	■	■	■
	Crisia eburnea (Linnaeus, 1758)	■	■	■
	Schizoporella errata (Waters, 1878)	■	■	■
	***Tricellaria inopinata* d'Hondt & Occhipinti Ambrogi, 1985**	■	■	■
	Watersipora subtorquata (d'Orbigny, 1852)	■	■	■
Tunicata	*Ascidia* sp.	■	■	■

Botryllus schlosseri (Pallas, 1766)	
Didemnidae ind.	
Diplosoma sp.	
Perophora sp.	
Phallusia mammillata (Cuvier, 1815)	
Stolidobranchia ind.	
***Styela plicata* (Lesueur, 1823)**	

Supplementary Table S2. Summary of the ANOVA tests on the response variables. Significative *p* values are in bold.

Variable	F value	*p*
B (g)	0.08	0.92
S_{NIS}	0.51	0.61
S_{native}	0.20	0.82
H' (log e)	5.54	**0.01**
C_{NIS} (%)	0.21	0.81
C_{native} (%)	3.90	**0.04**

Supplementary Table S3 SIMPER table showing taxa contribution to dissimilarity within treatments in the experiment. Data were square-root transformed, and Bray-Curtis index was used to calculate dissimilarity. Av.Abund: average abundance; Av.Diss: average dissimilarity; Sim/SD: ratio between similarity and standard deviation. Contrib%: single taxon contribution; Cum.%: cumulative percentage of contributions. NIS are shown in bold. C: control panels; Ca: caged panels; OCa: open-caged panels.

Group C					
Average similarity: 71.57					
Species	**Av.Abund**	**Av.Sim**	**Sim/SD**	**Contrib%**	**Cum.%**
Schizoporella errata (Waters, 1878)	0.8	17.43	11.05	24.36	24.36
Salmacina sp.	0.53	9.53	3.38	13.32	37.68
***Hydroides elegans* (Haswell, 1883)**	0.37	7.13	5.01	9.96	47.63
Amphibalanus amphitrite amphitrite (Darwin, 1854)	0.25	4.62	3.8	6.46	54.09
Anomia ephippium Linnaeus, 1758	0.18	3.49	3.07	4.88	58.97
Bugulina fulva (Ryland, 1960)	0.19	3.45	4.57	4.82	63.79
***Branchiomma* sp. (see Tamburini et al. 2021)**	0.14	2.49	5.27	3.48	67.27
***Styela plicata* (Lesueur, 1823)**	0.13	2.49	5.27	3.48	70.76
Crisia eburnea (Linnaeus, 1758)	0.12	2.48	6.84	3.46	74.22
Watersipora subtorquata (d'Orbigny, 1852)	0.14	2.48	6.84	3.46	77.68
Botryllus schlosseri (Pallas, 1766)	0.14	1.85	1.24	2.59	80.28
Perophora sp.	0.14	1.8	1.26	2.51	82.79
Sabella sp.	0.11	1.72	1.31	2.4	85.18
Clytia sp.	0.11	1.63	1.34	2.28	87.46
Hydroides dianthus (Verrill, 1873)	0.11	1.58	1.35	2.21	89.67
Cradoscrupocellaria bertholletii (Audouin, 1826)	0.09	1.53	1.36	2.14	91.81

Group Ca

Average similarity: 63.08

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Schizoporella errata (Waters, 1878)	0.43	7.48	3.46	11.87	11.87
Anomia ephippium Linnaeus, 1758	0.37	5.93	1.99	9.4	21.27
Watersipora subtorquata (d'Orbigny, 1852)	0.3	4.82	2.74	7.64	28.91
Salmacina sp.	0.34	4.7	1.28	7.45	36.36
***Branchiomma luctuosum* (Grube, 1870)**	0.25	4.27	3.31	6.78	43.14
***Hydroides elegans* (Haswell, 1883)**	0.25	3.58	1.93	5.68	48.82
Sabella sp.	0.19	3.09	3.16	4.91	53.72
***Branchiomma* sp. (see Tamburini et al. 2021)**	0.16	2.87	4.1	4.54	58.27
Didemnidae ind.	0.21	2.77	3.36	4.39	62.66
Amphibalanus amphitrite amphitrite (Darwin, 1854)	0.15	2.62	3.85	4.15	66.81
Crisia eburnea (Linnaeus, 1758)	0.18	2.46	2.28	3.9	70.71
Janua sp.	0.12	2.34	6.72	3.72	74.43
Botryllus schlosseri (Pallas, 1766)	0.16	2.23	9.48	3.53	77.96
Cradoscrupocellaria bertholletii (Audouin, 1826)	0.14	1.9	1.13	3.02	80.98
Ascidia sp.	0.2	1.74	0.65	2.76	83.73
Clytia sp.	0.16	1.69	1.28	2.68	86.42
Simplaria sp.	0.1	1.55	1.34	2.46	88.88
Perophora sp.	0.12	1.52	1.26	2.41	91.29

Group OCa

Average similarity: 66.75

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Schizoporella errata (Waters, 1878)	0.72	13.24	1.44	19.83	19.83
Salmacina sp.	0.4	6.72	2.48	10.07	29.9
***Hydroides elegans* (Haswell, 1883)**	0.27	5.13	3.35	7.68	37.58
Watersipora subtorquata (d'Orbigny, 1852)	0.29	4.95	4.34	7.41	45
Anomia ephippium Linnaeus, 1758	0.25	3.93	3.34	5.89	50.89
Amphibalanus amphitrite amphitrite (Darwin, 1854)	0.17	3	4.07	4.49	55.38
***Branchiomma* sp. (see Tamburini et al. 2021)**	0.17	2.96	3.21	4.43	59.81
Bugulina fulva (Ryland, 1960)	0.16	2.9	4.27	4.34	64.15
***Styela plicata* (Lesueur, 1823)**	0.15	2.84	5.5	4.26	68.41
Sabella sp.	0.13	2.62	5.67	3.92	72.33
Bugula neritina (Linnaeus, 1758)	0.11	2.35	7.95	3.53	75.86
Crisia eburnea (Linnaeus, 1758)	0.12	2.06	1.46	3.09	78.95
Cradoscrupocellaria bertholletii (Audouin, 1826)	0.1	1.81	1.52	2.72	81.67
Janua sp.	0.11	1.79	1.48	2.68	84.34
Clytia sp.	0.11	1.76	1.51	2.64	86.99
Botryllus schlosseri (Pallas, 1766)	0.11	1.67	1.5	2.5	89.48
***Paraleucilla magna* Klautau, Monteiro & Borojevic, 2004**	0.07	1.15	0.92	1.72	91.2

Supplementary Table S4 SIMPER table showing taxa contribution to dissimilarity between treatments in the experiment of aim 3. Data were square-root transformed, and Bray-Curtis index was used to calculate dissimilarity. Av.Abund: average abundance; Av.Diss: average dissimilarity; Diss/SD: ratio between

dissimilarity and standard deviation. Contrib%: single taxon contribution; Cum.%: cumulative percentage of contributions. NIS are shown in bold. C: control panels; Ca: caged panels; OCa: open-caged panels.

Groups C & Ca Average dissimilarity = 42.28						
Species	**Group C Av.Abund**	**Group Ca Av.Abund**	**Av.Diss**	**Diss/SD**	**Contrib%**	**Cum.%**
Schizoporella errata (Waters, 1878)	0.8	0.43	4.1	2.52	9.7	9.7
Salmacina sp.	0.53	0.34	2.86	1.33	6.76	16.46
Anomia ephippium Linnaeus, 1758	0.18	0.37	2.44	1.88	5.77	22.24
***Branchiomma luctuosum* (Grube, 1870)**	0.04	0.25	2.37	2.01	5.61	27.84
Ascidia sp.	0.05	0.2	1.96	1.26	4.64	32.49
Watersipora subtorquata (d'Orbigny, 1852)	0.14	0.3	1.85	1.58	4.37	36.85
***Hydroides elegans* (Haswell, 1883)**	0.37	0.25	1.74	1.37	4.1	40.96
Didemnidae ind.	0.05	0.21	1.73	1.08	4.09	45.05
Bugulina fulva (Ryland, 1960)	0.19	0.06	1.68	1.6	3.97	49.02
Crisia denticulata (Lamarck, 1816)	0.11	0.11	1.66	1.1	3.93	52.95
Diplosoma sp.	0.1	0.04	1.35	0.68	3.2	56.15
Clytia sp.	0.11	0.16	1.22	0.97	2.88	59.02
Amphibalanus amphitrite amphitrite (Darwin, 1854)	0.25	0.15	1.18	1.37	2.78	61.81
Botryllus schlosseri (Pallas, 1766)	0.14	0.16	1.14	1.03	2.69	64.5
Simplaria sp.	0	0.1	1.1	2.05	2.6	67.1
***Styela plicata* (Lesueur, 1823)**	0.13	0.04	1.07	1.64	2.53	69.63
Hydroides dianthus (Verrill, 1873)	0.11	0.02	1.06	1.54	2.51	72.15
Perophora sp.	0.14	0.12	1.06	1.14	2.5	74.65
Sabella sp.	0.11	0.19	0.98	1.2	2.33	76.97
Cradoscrupocellaria bertholletii (Audouin, 1826)	0.09	0.14	0.97	1.31	2.29	79.26
Crisia eburnea (Linnaeus, 1758)	0.12	0.18	0.91	0.91	2.14	81.4
***Paraleucilla magna* Klautau, Monteiro & Borojevic, 2004**	0.03	0.09	0.76	1.3	1.8	83.2
Amphibalanus eburneus (Gould, 1841)	0.07	0.03	0.7	1.14	1.65	84.85

***Branchiomma* sp. (see Tamburini et al. 2021)**	0.14	0.16	0.64	1.1	1.51	86.37
***Hydroides dirampha* Mörch, 1863**	0.02	0.06	0.63	0.99	1.49	87.86
Bugula neritina (Linnaeus, 1758)	0.07	0.1	0.61	0.93	1.44	89.29
Eudendrium sp.	0.05	0	0.57	0.98	1.34	90.64

Groups C & OCa
Average dissimilarity = 30.79

Species	Group C Av.Abund	Group OCa Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Salmacina sp.	0.53	0.4	2.59	1.34	8.43	8.43
Schizoporella errata (Waters, 1878)	0.8	0.72	2.36	0.79	7.65	16.08
Watersipora subtorquata (d'Orbigny, 1852)	0.14	0.29	1.76	1.44	5.71	21.79
Crisia denticulata (Lamarck, 1816)	0.11	0.09	1.55	1.01	5.02	26.81
Diplosoma sp.	0.1	0.05	1.52	0.72	4.93	31.74
***Hydroides elegans* (Haswell, 1883)**	0.37	0.27	1.41	1.45	4.58	36.32
Anomia ephippium Linnaeus, 1758	0.18	0.25	1.23	0.97	4	40.33
***Branchiomma luctuosum* (Grube, 1870)**	0.04	0.11	1.22	1.2	3.95	44.28
Amphibalanus amphitrite amphitrite (Darwin, 1854)	0.25	0.17	1.19	1.28	3.85	48.13
Perophora sp.	0.14	0.08	1.12	1.05	3.65	51.78
Botryllus schlosseri (Pallas, 1766)	0.14	0.11	1.01	1.16	3.29	55.07
Hydroides dianthus (Verrill, 1873)	0.11	0.04	0.9	1.23	2.94	58.01
Bugulina fulva (Ryland, 1960)	0.19	0.16	0.85	1.07	2.76	60.77
Amphibalanus eburneus (Gould, 1841)	0.07	0.06	0.83	1.2	2.71	63.48
Didemnidae ind.	0.05	0.08	0.8	1.01	2.6	66.08
***Branchiomma* sp. (see Tamburini et al. 2021)**	0.14	0.17	0.78	1.04	2.54	68.62
Clytia sp.	0.11	0.11	0.7	1.09	2.27	70.9
***Paraleucilla magna* Klautau, Monteiro & Borojevic, 2004**	0.03	0.07	0.67	1.13	2.19	73.09
Sabella sp.	0.11	0.13	0.61	1.06	1.98	75.07
Ascidia sp.	0.05	0.06	0.58	0.98	1.89	76.96

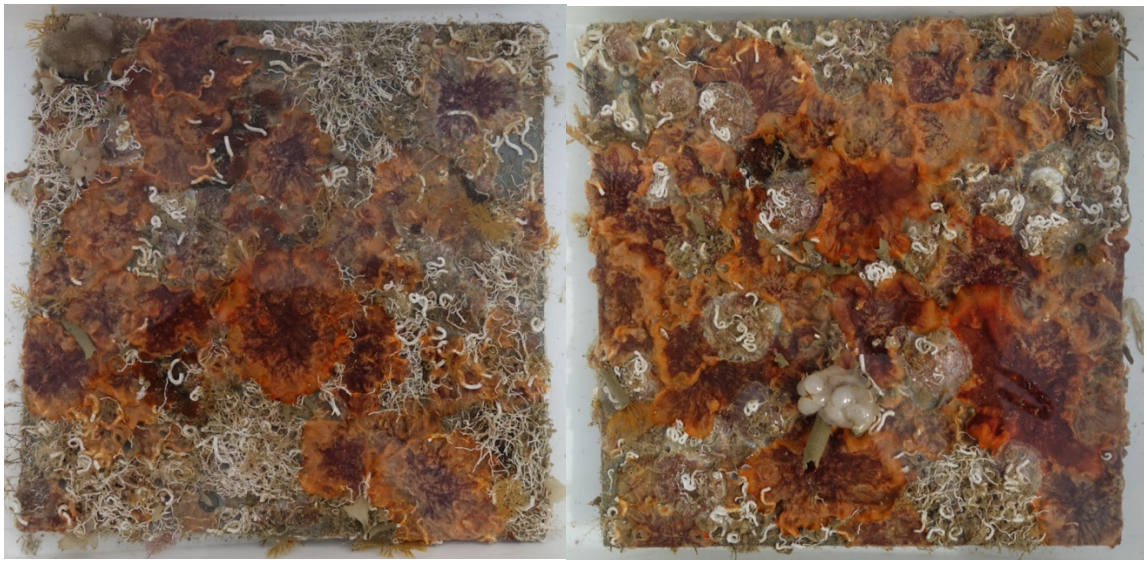
Eudendrium sp.	0.05	0.06	0.58	0.98	1.89	78.85
Stolidobranchia ind.	0.03	0.04	0.55	0.93	1.77	80.62
Janua sp.	0.08	0.11	0.54	0.85	1.76	82.38
Crisia eburnea (Linnaeus, 1758)	0.12	0.12	0.53	0.95	1.73	84.11
Simplaria sp.	0	0.04	0.49	0.85	1.59	85.7
***Styela plicata* (Lesueur, 1823)**	0.13	0.15	0.47	1.17	1.53	87.23
Bugula neritina (Linnaeus, 1758)	0.07	0.11	0.46	0.78	1.5	88.73
Cradoscrupocellaria bertholletii (Audouin, 1826)	0.09	0.1	0.46	0.88	1.48	90.21

Groups Ca & OCa
Average dissimilarity = 38.93

Species	Group Ca Av.Abund	Group OCa Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Schizoporella errata (Waters, 1878)	0.43	0.72	4.72	2.44	12.13	12.13
Anomia ephippium Linnaeus, 1758	0.37	0.25	2.3	1.55	5.92	18.04
Salmacina sp.	0.34	0.4	2.21	1.29	5.69	23.73
Ascidia sp.	0.2	0.06	1.97	1.27	5.05	28.78
***Branchiomma luctuosum* (Grube, 1870)**	0.25	0.11	1.86	1.36	4.79	33.57
Didemnidae ind.	0.21	0.08	1.7	1.09	4.36	37.93
Watersipora subtorquata (d'Orbigny, 1852)	0.3	0.29	1.45	1.41	3.74	41.66
Crisia denticulata (Lamarck, 1816)	0.11	0.09	1.43	1.08	3.68	45.34
***Hydroides elegans* (Haswell, 1883)**	0.25	0.27	1.4	1.54	3.6	48.95
Bugulina fulva (Ryland, 1960)	0.06	0.16	1.39	1.78	3.58	52.53
Clytia sp.	0.16	0.11	1.22	0.95	3.13	55.65
***Styela plicata* (Lesueur, 1823)**	0.04	0.15	1.21	1.81	3.1	58.75
Crisia eburnea (Linnaeus, 1758)	0.18	0.12	1.17	1.21	3	61.75
Botryllus schlosseri (Pallas, 1766)	0.16	0.11	0.96	0.77	2.47	64.22
Cradoscrupocellaria bertholletii (Audouin, 1826)	0.14	0.1	0.95	1.4	2.43	66.65
Perophora sp.	0.12	0.08	0.81	1.1	2.09	68.74

Diplosoma sp.	0.04	0.05	0.81	0.82	2.07	70.8
Sabella sp.	0.19	0.13	0.79	1.18	2.03	72.83
Simplaria sp.	0.1	0.04	0.78	1.23	2.01	74.84
***Branchiomma* sp. (see Tamburini et al. 2021)**	0.16	0.17	0.75	1.16	1.93	76.78
Amphibalanus amphitrite amphitrite (Darwin, 1854)	0.15	0.17	0.74	1.24	1.9	78.68
Amphibalanus eburneus (Gould, 1841)	0.03	0.06	0.69	0.92	1.78	80.46
***Hydroides dirampha* Mörch, 1863**	0.06	0.01	0.64	0.97	1.64	82.1
Eudendrium sp.	0	0.06	0.62	1.13	1.58	83.68
***Tricellaria inopinata* d'Hondt & Occhipinti Ambrogi, 1985**	0.05	0.01	0.55	0.98	1.4	85.08
Stolidobranchia ind.	0.03	0.04	0.53	0.93	1.36	86.44
Hydroides dianthus (Verrill, 1873)	0.02	0.04	0.5	0.89	1.29	87.73
***Paraleucilla magna* Klautau, Monteiro & Borojevic, 2004**	0.09	0.07	0.47	0.84	1.22	88.95
Janua sp.	0.12	0.11	0.47	1.03	1.21	90.17

Supplementary Figure S1 Pictures of two PVC panels pertaining to the treatment level “control panels”.



Supplementary Figure S2 Pictures of two PVC panels pertaining to the treatment level “open-caged panels”.

Supplementary Figure S3 Pictures of two PVC panels pertaining to the treatment level “caged panels”.