

Appendix 1: Basic data, showing the measured weights of *Rivularia* before and after the laboratory experiment and the calculated % growth for each Erlenmeyer flask. Flask number 10 had loss of biomass instead of growth. This was probably because this flask had not been shaken like the others. It had a deviating shape while all others were the same with a broader base, which provided better shaking than the smaller base of Flask number 10. The deviating value was deleted from the analyses.

Flask number	Treatment	Temperature	Weight in g (before the experiment)	Weight in g (after the experiment)	Wight increase In g	% Growth
1	+Cu	26°C	1.4255	1.8924	0.4669	32.8
2	+Cu	26°C	1.4291	2.0851	0.656	45.9
3	+Cu	26°C	1.5461	2.1311	0.585	37.8
4	+Cu	26°C	1.5384	2.5502	1.0118	65.8
5	+Cu	26°C	1.5047	2.2342	0.7295	48.5
6	+Cu	22°C	1.5208	2.2136	0.6928	45.6
7	+Cu	22°C	1.4891	2.3477	0.8586	57.7
8	+Cu	22°C	1.4327	1.9194	0.4867	34.0
9	+Cu	22°C	1.4903	2.2078	0.7175	48.1
10	+Cu	22°C	1.5723	1.2007	-0.3716	
11	+Cu	18°C	1.4654	2.6788	1.2134	82.8
12	+Cu	18°C	1.4964	3.7462	2.2498	150.3
13	+Cu	18°C	1.5099	2.7130	1.2031	79.7
14	+Cu	18°C	1.4786	2.4247	0.9461	64.0
15	+Cu	18°C	1.4781	3.1566	1.6785	113.6
16	-Cu	26°C	1.4452	2.4148	0.9696	67.1
17	-Cu	26°C	1.5341	3.0258	1.4917	97.2
18	-Cu	26°C	1.5020	2.4222	0.9202	61.3
19	-Cu	26°C	1.4622	2.6738	1.2116	82.9
20	-Cu	26°C	1.4853	2.8429	1.3576	91.4
21	-Cu	22°C	1.5522	2.8583	1.3061	84.1
22	-Cu	22°C	1.5134	2.4304	0.917	60.6
23	-Cu	22°C	1.5535	3.0254	1.4719	94.7
24	-Cu	22°C	1.5138	2.5782	1.0644	70.3
25	-Cu	22°C	1.5384	3.2032	1.6648	108.2
26	-Cu	18°C	1.5385	4.3453	2.8068	182.4
27	-Cu	18°C	1.5347	3.7445	2.2098	144.0
28	-Cu	18°C	1.5615	5.5871	4.0256	257.8
29	-Cu	18°C	1.5014	3.4087	1.9073	127.0
30	-Cu	18°C	1.5630	3.8549	2.2919	146.6

Appendix 2: Abundances of macroalgal genera in % cover in species composition analysis. Clad=*Cladophora*, Ulva=*Ulva*, Cera=*Ceramium*, Ecto=*Ectocarpus*, Moug=*Mougeotia*, Choo=*Chroodactylon*, Rhiz=*Rhizoclonium*, Scyt=*Scytosiphon*, Poly=*Polysiphonia*, Spir=*Spirogyra*, Zygn=*Zygnema*, Ulot=*Ulothrix*, Oedo=*Oedogonium*.

Sample	Clad	Ulva	Cera	Ecto	Moug	Chroo	Rhiz	Scyt	Poly	Spir	Zygn	Ulot	Oedo
1	100	0	0	0	0	0	0	0	0	0	0	0	0
2	85	0	0	0	0	0	0	0	0	10	5	0	0
3	100	0	0	0	0	0	0	0	0	0	0	0	0
4	50	50	0	0	0	0	0	0	0	0	0	0	0
5	60	40	0	0	0	0	0	0	0	0	0	0	0
6	100	0	0	0	0	0	0	0	0	0	0	0	0
7	100	0	0	0	0	0	0	0	0	0	0	0	0
8	55	45	0	0	0	0	0	0	0	0	0	0	0
9	10	50	40	0	0	0	0	0	0	0	0	0	0
10	30	65	5	0	0	0	0	0	0	0	0	0	0
11	45	50	5	0	0	0	0	0	0	0	0	0	0
12	100	0	0	0	0	0	0	0	0	0	0	0	0
13	100	0	0	0	0	0	0	0	0	0	0	0	0
14	50	50	0	0	0	0	0	0	0	0	0	0	0
15	100	0	0	0	0	0	0	0	0	0	0	0	0
16	100	0	0	0	0	0	0	0	0	0	0	0	0
17	50	50	0	0	0	0	0	0	0	0	0	0	0
18	40	60	0	0	0	0	0	0	0	0	0	0	0
19	45	55	0	0	0	0	0	0	0	0	0	0	0
20	40	60	0	0	0	0	0	0	0	0	0	0	0
21	50	50	0	0	0	0	0	0	0	0	0	0	0
22	0	100	0	0	0	0	0	0	0	0	0	0	0
23	0	100	0	0	0	0	0	0	0	0	0	0	0
24	0	0	100	0	0	0	0	0	0	0	0	0	0
25	75	0	0	0	5	20	0	0	0	0	0	0	0
26	100	0	0	0	0	0	0	0	0	0	0	0	0
27	100	0	0	0	0	0	0	0	0	0	0	0	0
28	90	10	0	0	0	0	0	0	0	0	0	0	0
29	100	0	0	0	0	0	0	0	0	0	0	0	0
30	100	0	0	0	0	0	0	0	0	0	0	0	0
31	95	5	0	0	0	0	0	0	0	0	0	0	0
32	10	20	70	0	0	0	0	0	0	0	0	0	0
33	90	10	0	0	0	0	0	0	0	0	0	0	0
34	100	0	0	0	0	0	0	0	0	0	0	0	0
35	0	100	0	0	0	0	0	0	0	0	0	0	0
36	100	0	0	0	0	0	0	0	0	0	0	0	0
37	65	5	15	15	0	0	0	0	0	0	0	0	0
38	25	50	0	0	0	0	25	0	0	0	0	0	0

39	100	0	0	0	0	0	0	0	0	0	0	0	0
40	5	95	0	0	0	0	0	0	0	0	0	0	0
41	100	0	0	0	0	0	0	0	0	0	0	0	0
42	100	0	0	0	0	0	0	0	0	0	0	0	0
43	90	5	0	0	0	0	0	0	0	5	0	0	0
44	5	0	95	0	0	0	0	0	0	0	0	0	0
45	70	0	30	0	0	0	0	0	0	0	0	0	0
46	70	30	0	0	0	0	0	0	0	0	0	0	0
47	100	0	0	0	0	0	0	0	0	0	0	0	0
48	100	0	0	0	0	0	0	0	0	0	0	0	0
49	70	30	0	0	0	0	0	0	0	0	0	0	0
50	25	75	0	0	0	0	0	0	0	0	0	0	0
51	100	0	0	0	0	0	0	0	0	0	0	0	0
52	50	50	0	0	0	0	0	0	0	0	0	0	0
53	100	0	0	0	0	0	0	0	0	0	0	0	0
54	50	0	50	0	0	0	0	0	0	0	0	0	0
55	95	0	0	0	0	0	0	0	0	0	0	5	0
56	40	60	0	0	0	0	0	0	0	0	0	0	0
57	35	65	0	0	0	0	0	0	0	0	0	0	0
58	30	70	0	0	0	0	0	0	0	0	0	0	0
59	20	80	0	0	0	0	0	0	0	0	0	0	0
60	50	50	0	0	0	0	0	0	0	0	0	0	0
61	0	100	0	0	0	0	0	0	0	0	0	0	0
62	100	0	0	0	0	0	0	0	0	0	0	0	0
63	40	0	10	0	0	0	0	10	40	0	0	0	0
64	100	0	0	0	0	0	0	0	0	0	0	0	0
65	30	5	0	0	0	0	0	0	0	0	65	0	0
66	75	25	0	0	0	0	0	0	0	0	0	0	0
67	20	5	0	0	0	0	0	0	0	75	0	0	0
68	20	80	0	0	0	0	0	0	0	0	0	0	0
69	100	0	0	0	0	0	0	0	0	0	0	0	0
70	80	0	0	0	0	0	0	0	0	10	10	0	0
71	50	25	0	0	0	0	0	0	0	5	20	0	0
72	20	70	0	0	0	0	0	0	0	10	10	0	0
73	20	80	0	0	0	0	0	0	0	0	0	0	0
74	40	60	0	0	0	0	0	0	0	0	0	0	0
75	0	70	0	0	0	0	0	0	0	0	0	0	30
76	0	0	100	0	0	0	0	0	0	0	0	0	0
77	0	100	0	0	0	0	0	0	0	0	0	0	0