

Bryophytes can recognize their neighbours through volatile organic compounds

Eliška Vicherová, Robert Glinwood, Tomáš Hájek, Petr Šmilauer and Velemir Ninkovic

Supplemental Table S2. Volatile organic compounds (ng g^{-1}) produced by *Hamatocaulis vernicosus* carpets, exposed to *S. flexuosum* VOC (*Sphagnum*) or empty chamber (*control*), that were cultivated under standard light condition (FR–) or of added FR light (FR+). The *H. vernicosus* shoots were exposed either to VOCs released from neighbouring *H. vernicosus* individuals or to *H. vernicosus* VOCs and VOCs coming from *S. flexuosum* carpets. For more detail see methods.

Light	Control / <i>Sphagnum</i> exposure	Total	β -cyclocitral	Methyl 2,6,6-	Unknown 1	Unknown 2	Unknown 3	α -copaene	Unknown 4	Unknown 5	(Z)- β -	(E)- β -	Unknown 6	Unknown 7
				trimethyl-1- cyclohexene-1- carboxylate							farnesene	farnesene		
FR+	control	121	11.55	0.58	0.19	0.36	0.24	1.12	1.19	0.46	0.15	0.18	5.83	0.60
FR+	control	130	6.58	1.29	0.13	0.31	0.28	1.27	0.76	0.84	0.26	0.33	6.88	0.76
FR+	control	392	48.11	2.95	0.80	1.07	0.96	1.35	1.12	1.31	0.77	1.46	28.81	2.54
FR+	control	257	25.03	2.28	0.25	0.48	0.33	1.13	1.13	0.45	0.27	1.35	8.70	1.03
	mean	225	22.82	1.78	0.34	0.55	0.45	1.22	1.05	0.77	0.36	0.83	12.56	1.23
FR–	control	135	6.35	0.09	0.06	0.11	0.34	1.21	0.34	0.72	0.28	0.12	0.22	0.48
FR–	control	185	9.18	0.08	0.25	0.38	0.28	1.41	1.27	0.74	0.35	0.49	8.16	0.81
FR–	control	99	5.56	0.22	0.10	0.20	0.10	0.61	0.28	0.57	0.17	0.19	3.57	0.42
FR–	control	198	7.85	0.30	0.18	0.54	0.43	1.96	0.85	0.49	0.54	0.80	9.58	1.03
	mean	168	7.23	0.17	0.15	0.31	0.29	1.30	0.68	0.63	0.33	0.40	5.38	0.69
FR+	<i>Sphagnum</i>	216	18.56	2.00	0.20	0.43	0.41	1.65	1.10	0.59	0.32	0.72	9.51	0.72
FR+	<i>Sphagnum</i>	497	20.49	1.36	0.55	1.04	0.85	5.07	2.01	0.82	0.73	1.80	32.08	2.39
FR+	<i>Sphagnum</i>	146	21.69	3.15	0.10	0.26	0.60	0.48	0.29	0.40	0.16	0.72	2.91	0.66
FR+	<i>Sphagnum</i>	170	13.36	4.90	0.51	1.30	0.40	1.32	7.14	0.55	0.47	0.86	5.71	1.23
FR+	<i>Sphagnum</i>	242	22.66	1.77	0.28	0.54	0.51	2.17	1.24	0.36	0.35	1.50	11.19	0.94
FR+	<i>Sphagnum</i>	380	9.77	1.23	0.37	0.86	0.82	3.91	2.02	1.07	0.63	1.44	22.84	2.02
	mean	275	17.76	2.40	0.34	0.74	0.60	2.43	2.30	0.63	0.44	1.17	14.04	1.33
FR–	<i>Sphagnum</i>	150	6.97	0.71	0.21	0.27	0.24	1.01	0.68	0.85	0.28	0.32	5.75	0.75
FR–	<i>Sphagnum</i>	548	18.82	1.55	0.63	1.17	1.00	4.87	3.12	1.54	0.92	2.07	29.64	2.12
FR–	<i>Sphagnum</i>	150	6.97	0.71	0.21	0.27	0.24	1.01	0.68	0.85	0.28	0.32	5.75	0.75
FR–	<i>Sphagnum</i>	256	12.95	0.50	0.32	0.60	0.44	2.46	1.14	0.59	0.39	1.34	14.13	1.03
	mean	276	11.43	0.87	0.34	0.58	0.48	2.34	1.40	0.96	0.47	1.01	13.82	1.16

Table S2 (continued).

Control / <i>Sphagnum</i>		Unknown 8	Unknown 9	Unknown 10	Unknown 11	Unknown 12	Unknown 13	Unknown 14	Unknown 15	Unknown 16	Rimuene	Unknown 17	Unknown 18
Light exposure													
FR+	control	0.95	5.04	16.61	5.50	1.48	2.87	1.19	11.11	0.43	11.60	41.48	0.70
FR+	control	1.39	9.39	11.62	13.06	1.83	3.84	0.74	8.22	0.81	49.13	9.33	0.87
FR+	control	6.31	37.57	67.55	27.26	6.93	14.53	5.66	27.98	6.84	97.72	1.82	0.93
FR+	control	2.82	18.57	31.78	12.36	5.03	9.85	3.99	25.11	0.85	69.11	33.56	1.80
mean		2.87	17.64	31.89	14.55	3.82	7.77	2.89	18.10	2.23	56.89	21.55	1.08
FR-	control	0.22	1.32	1.15	0.44	0.50	0.23	0.26	2.24	0.89	16.47	99.61	1.40
FR-	control	1.88	8.42	28.36	14.12	3.40	6.82	3.46	18.96	1.01	46.31	27.79	0.74
FR-	control	0.61	4.73	7.92	6.41	1.62	2.71	1.18	4.69	0.49	48.10	8.02	0.88
FR-	control	2.40	7.60	24.38	15.74	4.71	7.98	2.84	14.43	2.53	56.32	33.36	0.77
mean		1.28	5.52	15.45	9.18	2.56	4.43	1.94	10.08	1.23	41.80	42.19	0.95
FR+	<i>Sphagnum</i>	2.03	11.43	23.73	12.33	2.67	6.00	2.83	19.64	0.91	68.26	28.53	1.21
FR+	<i>Sphagnum</i>	7.29	47.06	79.95	73.30	7.04	14.70	6.39	55.79	3.43	51.16	81.22	0.86
FR+	<i>Sphagnum</i>	0.59	8.27	9.08	1.46	0.56	0.50	1.14	9.46	0.49	76.32	5.14	1.72
FR+	<i>Sphagnum</i>	1.42	11.99	4.59	14.26	1.68	4.37	0.81	5.14	4.35	79.92	1.04	2.58
FR+	<i>Sphagnum</i>	3.17	23.47	31.23	21.16	3.90	6.62	2.62	25.46	1.49	50.09	28.79	0.93
FR+	<i>Sphagnum</i>	5.22	31.47	57.51	39.46	7.88	15.08	4.16	47.97	3.15	18.92	101.04	1.30
mean		3.29	22.28	34.35	26.99	3.95	7.88	2.99	27.25	2.30	57.45	40.96	1.43
FR-	<i>Sphagnum</i>	1.59	7.76	14.42	8.79	2.24	4.27	1.40	12.39	0.84	56.20	20.99	1.15
FR-	<i>Sphagnum</i>	7.15	30.70	60.84	47.71	7.57	15.59	5.96	38.32	4.40	188.85	69.96	3.99
FR-	<i>Sphagnum</i>	1.59	7.76	14.42	8.79	2.24	4.27	1.40	12.39	0.84	56.20	20.99	1.15
FR-	<i>Sphagnum</i>	3.97	20.18	39.79	18.81	4.90	10.35	3.72	33.32	1.68	45.91	36.39	1.38
mean		3.58	16.60	32.37	21.02	4.24	8.62	3.12	24.11	1.94	86.79	37.08	1.92