

Online supplementary data

Results of windtunnel experiments with (a) *C. glomerata* and (b) *C. rubecula*.

Each value represents the cumulative results from sub experiments performed on at least three different days, grouped per experience and treatment, except for those points indicated with *, which were collected from two different days

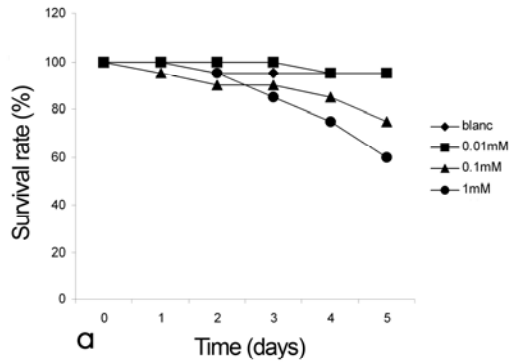
Ia:

oviposition	treatment	Time after treatment (h)	response to nasturtium	response to cabbage	N (responding)	N (total)
naïve	sucrose	24	12	44	56	79
naïve	sucrose + ACD	24	18	39	57	82
naïve	sucrose + ANI	24	2	21	23	27*
single	sucrose	1	26	9	35	39
single	sucrose	4	41	13	54	65
single	sucrose	24	56	29	85	97
single	sucrose + ACD	24	17	54	71	80
3 massed	sucrose	24	35	19	54	58
3 massed	sucrose + ACD	24	10	23	33	38
3 spaced	sucrose + ACD	24	16	35	51	54
3 spaced	sucrose + ACD	1	42	17	59	67
3 spaced	sucrose	1	72	15	87	95
3 spaced	sucrose	4	49	14	63	76
3 spaced	sucrose	24	35	14	49	54
3 spaced	sucrose	120	47	16	63	71
3 spaced	sucrose + ANI	1	31	5	36	38
3 spaced	sucrose + ANI	4	12	28	40	46
3 spaced	sucrose + ANI	24	12	21	33	38
3 spaced	sucrose + ANI	120	13	28	41	48

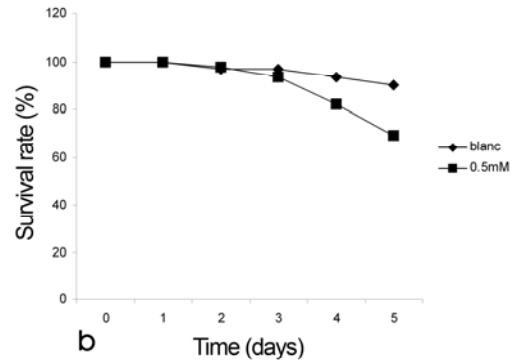
Results of windtunnel experiments with *C. rubecula*.

oviposition	treatment	Time after treatment (h)	response to nasturtium	response to cabbage	N (responding)	N (total)
naive	sucrose	24	3	21	24	70
naive	sucrose + ACD	24	6	18	24	57
naive	sucrose + ANI	24	2	18	20	27*
single	sucrose	1	46	22	68	84
single	sucrose	4	38	15	53	64
single	sucrose	24	6	23	29	36
3 massed	sucrose	24	7	27	34	38
3 spaced	sucrose + ACD	24	36	40	76	98
3 spaced	sucrose + ACD	1	33	2	35	38*
3 spaced	sucrose	1	64	5	69	77
3 spaced	sucrose	4	46	4	50	61
3 spaced	sucrose	24	89	26	115	150
3 spaced	sucrose	48	22	7	29	35
3 spaced	sucrose	72	20	8	28	41
3 spaced	sucrose	96	29	8	37	45
3 spaced	sucrose	120	56	15	71	91
3 spaced	sucrose + ANI	1	22	4	26	30*
3 spaced	sucrose + ANI	4	28	6	34	42
3 spaced	sucrose + ANI	24	29	23	52	66
3 spaced	sucrose + ANI	48	22	18	40	50
3 spaced	sucrose + ANI	72	9	20	29	40
3 spaced	sucrose + ANI	96	15	28	43	51
3 spaced	sucrose + ANI	120	13	26	39	48

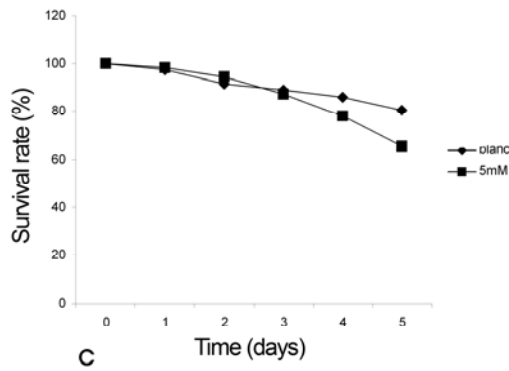
C.glomerata survival rate with ACD



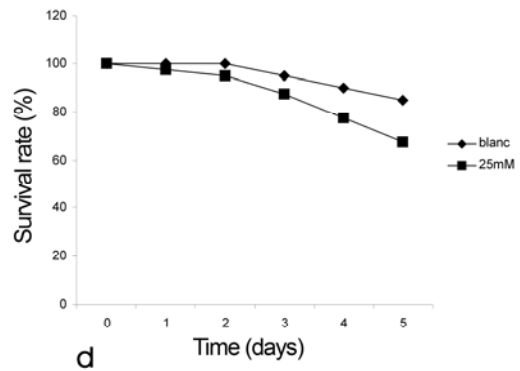
C.rubecula survival rate with ACD



C.glomerata survival rate with ANI



C.rubecula survival rate with ANI



(a). Survival rate of *C. glomerata* wasps, fed 0.5 μ l sucrose solution with different concentrations of ACD. N = 50 per treatment (b) Survival rate of *C. rubecula* wasps, fed 0.5 μ l sucrose solution with 0.5mM ACD in 2% sucrose (N = 45) or sucrose alone (N=30) (c). Survival rate of *C. glomerata* wasps, fed 5mM ANI in 2 % sucrose (N=55) or sucrose alone (N= 36) (d). Survival rate of *C. rubecula* wasps, fed 25mM ANI in 2% sucrose (N= 40) or sucrose alone (N= 20).

