

Table S1. Relative radicle lengths of *O. minor* treated with aryloxyacetylthioureas at 9 DAT.

Compound	Concentration					
	10 ppm	(n) ^a	1 ppm	(n) ^a	0.1 ppm	(n) ^a
1	1.14 ± 0.33*	(45)	n.d. ^b		n.d. ^b	
2	0.80 ± 0.23**	(46)	0.93 ± 0.30	(50)	n.d. ^b	
3	1.03 ± 0.30	(49)	n.d. ^b		n.d. ^b	
4	1.12 ± 0.30*	(45)	n.d. ^a		n.d. ^b	
5	0.85 ± 0.23**	(52)	0.91 ± 0.21*	(47)	n.d. ^b	
6	0.97 ± 0.31	(55)	n.d. ^b		n.d. ^b	
7	0.57 ± 0.15**	(51)	0.92 ± 0.25	(49)	n.d. ^b	
8	0.78 ± 0.26**	(43)	0.91 ± 0.22	(41)	n.d. ^b	
9	0.12 ± 0.10**	(50)	0.47 ± 0.14**	(62)	n.d. ^b	
10	0.14 ± 0.06**	(72)	1.04 ± 0.23	(43)	n.d. ^b	
11	0.13 ± 0.04**	(77)	0.89 ± 0.19*	(55)	n.d. ^b	
12	0.49 ± 0.23**	(50)	1.00 ± 0.22	(45)	n.d. ^b	
13	0.68 ± 0.26**	(52)	1.06 ± 0.25	(45)	n.d. ^b	
14	0.81 ± 0.28**	(53)	0.98 ± 0.25	(48)	n.d. ^b	
15	0.39 ± 0.15**	(59)	0.76 ± 0.26**	(51)	n.d. ^b	
16 (PI-28)	0.10 ± 0.02**	(65)	0.76 ± 0.21**	(57)	n.d. ^b	
17	0.12 ± 0.05**	(56)	0.45 ± 0.16**	(56)	n.d. ^b	
18	0.15 ± 0.09**	(66)	0.76 ± 0.25**	(44)	n.d. ^b	
19	0.11 ± 0.08**	(56)	0.24 ± 0.16**	(54)	0.87 ± 0.19**	(41)
20	0.11 ± 0.05**	(76)	0.12 ± 0.05**	(54)	0.80 ± 0.20**	(47)
21	0.25 ± 0.11**	(79)	0.74 ± 0.21**	(61)	n.d. ^b	

* $p < 0.05$, ** $p < 0.01$ by Student's *t*-test

^aNumber of radicles measured the lengths. ^bNot determined.

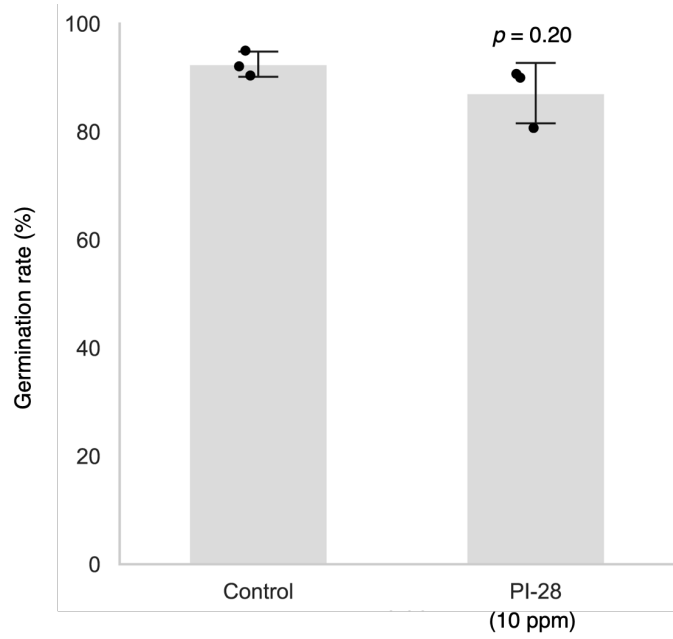


Fig. S2. The effect of the PI-28 at 10 ppm on the germination rate of *O. minor* at 9 DAT. The seeds were germinated with 1 ppm *rac*-GR24 with or without (control) PI-28. Significant differences were evaluated via the Student's *t*-test, $n = 3$.

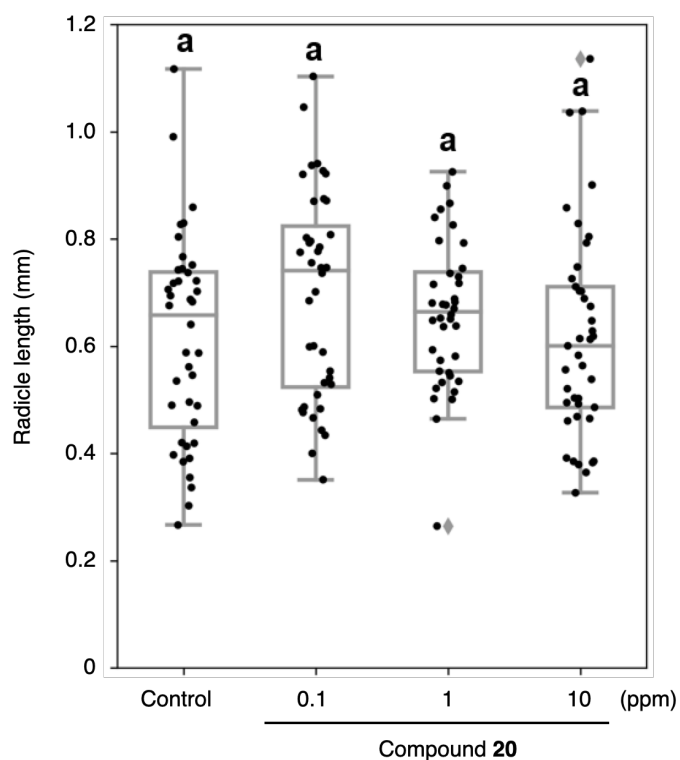


Fig. S3. The effect of the aryloxyacetylthiourea **20** at 0.1, 1, and 10 ppm on the radicle elongation of *S. hermonthica* at 1 DAT. The seeds were germinated with 1 ppm *rac*-GR24 with or without (control) the thiourea. The radicle lengths of *S. hermonthica* in each treatment were measured using Image J software and shown as a boxplot. Different letters indicate significant differences ($p < 0.05$) among the treatments evaluated via the Tukey-Kramer test, $n = 40$.