

## Supplementary material

**Table S1.** Effect of ethanol on survival, distance and speed in control groups at 2 °C, and CPF= 0 ng L<sup>-1</sup> (ANOVA and Tukey HSD test).

	Effect	Degree of Freedom	MS	F	p
ET_Survival	0.017	2	0.009	0.187	0.831
ET_distance	3.08	2	1.54	0.259	0.774
ET_speed	0.145	2	0.073	1.465	0.253
Survival	% ethanol	{1} (1.3758)	{2} (1.3861)	{3} (1.3279)	
1	1.10E-06		0.995	0.885	
2	1.10E-05	0.995		0.836	
3	1.10E-04	0.885	0.836		
Distance	% ethanol	{1} (5.2953)	{2} (6.0375)	{3} (5.9842)	
1	1.10E-06		0.797	0.823	
2	1.10E-05	0.797		0.999	
3	1.10E-04	0.823	0.999		
Speed	% ethanol	{1} (.65097)	{2} (.72617)	{3} (.82990)	
1	1.10E-06		0.757	0.226	
2	1.10E-05	0.757		0.592	
3	1.10E-04	0.226	0.592		

**Table S2.** Mean (M) and Standard Error (SE) of survival (Surv, in %), distance (Dist, in mm) and speed (Speed, in mm s<sup>-1</sup>) of *Diamesa zernyi* larvae exposed at 2 °C to three ethanol concentrations (ET1=1.1E-06%, ET2= 1.1E-05%, ET3= 1.1E-04%), for 24, 48 and 72 h.

Ethanol	Time (h)	M_Surv%	SE_Surv%	M_Dist	SE_Dist	M_Speed	SE_Speed
ET1	24	100	0.0	8.3	0.4	0.8	0.1
ET1	48	100	0.0	9.3	1.8	0.9	0.2
ET1	72	89	11.1	8.1	2.5	0.8	0.2
ET2	24	100	0.0	8.3	2.5	0.7	0.2
ET2	48	100	0.0	4.8	0.8	0.6	0.0
ET2	72	100	0.0	5.1	0.7	0.5	0.1
ET3	24	100	0.0	6.5	0.9	0.6	0.1
ET3	48	100	0.0	3.7	0.4	0.8	0.2
ET3	72	78	11.1	3.8	2.3	0.4	0.1

**Table S3.** Mean (M) and Standard Error (SE) of survival (Surv, in %), distance (Dist, in mm) and speed (Speed, in mm s<sup>-1</sup>) of *Diamesa zernyi* larvae exposed to 2, 8 and 11 °C in solution with four different chlorpyrifos concentrations (Conc= 0, 1.1, 11, 110 ng L<sup>-1</sup>), after 24, 48 and 72 h. Control with ET3 (= 1.1E-04% of ethanol) were included.

Temp (°C)	Conc (ng L <sup>-1</sup> )	Time (h)	M_Surv%	SE_Surv%	M_Dist	SE_Dist	M_Speed	SE_Speed
2	0	24	100.0	0.0	6.5	0.9	0.6	0.1
2	0	48	100.0	0.0	3.7	0.4	0.8	0.2
2	0	72	77.8	11.1	3.8	2.3	0.4	0.1
8	0	24	100.0	0.0	8.8	3.7	0.8	0.2
8	0	48	88.9	11.1	3.3	0.7	0.8	0.0
8	0	72	88.9	11.1	4.9	1.8	0.6	0.1
11	0	24	100.0	0.0	10.1	1.3	1.2	0.2
11	0	48	66.7	19.2	6.1	3.2	1.2	0.1
11	0	72	55.6	22.2	6.7	2.0	1.1	0.1
2	1.1	24	100.0	0.0	12.8	0.5	0.8	0.0
2	1.1	48	100.0	0.0	7.3	0.5	0.6	0.0
2	1.1	72	100.0	0.0	5.7	1.5	0.6	0.1
8	1.1	24	100.0	0.0	6.8	1.5	1.3	0.2
8	1.1	48	100.0	0.0	5.4	0.5	0.6	0.0
8	1.1	72	88.9	11.1	5.4	0.4	0.8	0.1
11	1.1	24	100.0	0.0	8.9	3.5	0.7	0.2
11	1.1	48	100.0	0.0	4.2	1.8	0.5	0.1
11	1.1	72	100.0	0.0	2.1	1.3	0.4	0.1
2	11	24	100.0	0.0	8.1	2.1	0.6	0.0
2	11	48	88.9	11.1	5.7	1.7	0.6	0.1
2	11	72	44.4	29.4	4.8	2.7	0.5	0.2
8	11	24	100.0	0.0	6.5	0.4	1.0	0.1
8	11	48	88.9	11.1	5.7	1.2	0.8	0.1
8	11	72	77.8	11.1	6.5	0.9	0.7	0.1
11	11	24	100.0	0.0	11.9	0.9	1.0	0.1
11	11	48	77.8	11.1	9.1	4.5	0.8	0.2
11	11	72	66.7	0.0	3.2	1.1	1.0	0.3
2	110	24	100.0	0.0	7.7	2.7	0.6	0.1
2	110	48	88.9	11.1	5.6	3.0	0.8	0.2
2	110	72	55.6	11.1	1.1	0.6	0.2	0.0
8	110	24	100.0	0.0	7.6	0.9	1.0	0.1
8	110	48	100.0	0.0	8.9	2.1	1.2	0.1
8	110	72	100.0	0.0	6.7	3.1	0.7	0.1
11	110	24	100.0	0.0	9.4	3.6	0.8	0.0
11	110	48	66.7	19.2	1.1	0.3	0.4	0.2
11	110	72	44.4	11.1	0.1	0.1	0.1	0.0