

Supplementary Material

**Effects of triclopyr on the earthworm (*Eisenia fetida*) under
laboratory conditions: assessment of growth inhibition and
oxidative stress**

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Table S1. Summary of growth parameters and biomarker responses in *Eisenia fetida* exposed to triclopyr.

Parameter	Time (d)	CK	0.1 mg kg ⁻¹	0.5 mg kg ⁻¹	1.0 mg kg ⁻¹	5.0 mg kg ⁻¹	10.0 mg kg ⁻¹
GIR (%)	7	-3.16±1.35 ^{ab}	-3.80±1.66 ^b	-3.43±0.98 ^{ab}	-4.82±2.46 ^b	0.40±3.48 ^a	0.25±2.15 ^a
	14	-7.79±2.87 ^b	-8.02±1.53 ^b	-8.01±1.59 ^b	-9.65±1.81 ^b	-1.99±2.06 ^a	-2.79±2.34 ^a
	21	-4.22±0.98 ^b	-4.73±1.97 ^b	-4.33±3.93 ^b	-4.91±2.72 ^b	5.49±2.75 ^a	3.20±2.50 ^a
	28	1.38±2.44 ^b	0.17±1.65 ^b	2.37±2.04 ^b	3.45±1.27 ^b	10.98±1.86 ^a	13.14±2.96 ^a
SGR	0-7	0.0044±0.0019	0.0053±0.0023	0.0048±0.0014	0.0067±0.0034	-0.0006±0.0050	-0.0004±0.0031
	7-14	0.0062±0.0045	0.0057±0.0006	0.0062±0.0018	0.0064±0.0057	0.0034±0.0067	0.0043±0.0062
	14-21	-0.0048±0.0051	-0.0044±0.0044	-0.0050±0.0050	-0.0063±0.0032	-0.0109±0.0015	-0.0086±0.0029
	21-28	-0.0079±0.0034	-0.0068±0.0047	-0.0094±0.0058	-0.0118±0.0042	-0.0085±0.0051	-0.0155±0.0037
ROS (Fluorescence intensity/mg prot)	7	325±14 ^e	382±13 ^d	405±8 ^c	434±11 ^b	451±11 ^b	473±11 ^a
	14	351±13 ^d	371±11 ^d	412±16 ^c	408±13 ^c	438±11 ^b	462±14 ^a
	21	335±10 ^d	345±13 ^d	366±8 ^c	384±13 ^c	413±15 ^b	444±13 ^a
	28	337±10 ^c	342±12 ^{bc}	355±9 ^{ab}	358±4 ^{ab}	355±12 ^b	371±4 ^a
MDA (nmol/mg prot)	7	0.351±0.041 ^d	0.389±0.029 ^d	0.947±0.055 ^c	0.975±0.080 ^{bc}	1.084±0.139 ^b	1.364±0.057 ^a
	14	0.428±0.044 ^e	0.589±0.027 ^d	0.838±0.037 ^c	0.900±0.088 ^c	1.101±0.150 ^b	1.337±0.074 ^a
	21	0.408±0.040 ^c	0.532±0.070 ^d	0.714±0.089 ^c	0.792±0.077 ^c	1.144±0.079 ^b	1.476±0.045 ^a
	28	0.385±0.028 ^d	0.434±0.060 ^{cd}	0.440±0.023 ^{cd}	0.499±0.034 ^c	0.790±0.073 ^b	0.978±0.069 ^a
SOD (U/mg prot)	7	1.244±0.023 ^d	1.493±0.111 ^c	1.600±0.168 ^{bc}	1.723±0.058 ^b	1.835±0.079 ^b	2.101±0.110 ^a
	14	1.148±0.075 ^c	1.389±0.041 ^d	1.538±0.071 ^c	1.653±0.111 ^b	1.724±0.084 ^b	1.891±0.029 ^a
	21	1.151±0.126 ^b	1.219±0.082 ^b	1.206±0.062 ^b	1.091±0.090 ^b	1.386±0.075 ^a	1.510±0.075 ^a
	28	0.938±0.052 ^b	1.163±0.132 ^a	0.983±0.107 ^{ab}	1.079±0.133 ^{ab}	0.984±0.140 ^{ab}	1.131±0.041 ^{ab}
CAT (U/mg prot)	7	2.718±0.095 ^d	3.552±0.238 ^c	4.061±0.420 ^b	4.339±0.277 ^b	4.501±0.101 ^b	5.122±0.198 ^a
	14	2.696±0.249 ^c	2.661±0.093 ^c	2.713±0.343 ^c	3.210±0.155 ^b	3.405±0.193 ^{ab}	3.726±0.298 ^a
	21	2.391±0.152 ^d	2.491±0.157 ^c	2.530±0.112 ^{cd}	2.759±0.240 ^c	3.083±0.169 ^b	3.425±0.162 ^a
	28	2.620±0.056 ^b	2.583±0.039 ^b	2.604±0.099 ^b	2.600±0.137 ^b	2.806±0.073 ^a	2.859±0.099 ^a
POD (U/mg prot)	7	2.182±0.105 ^d	3.330±0.073 ^c	3.505±0.146 ^c	3.503±0.060 ^c	4.268±0.263 ^b	4.577±0.122 ^a
	14	2.492±0.053 ^d	2.421±0.077 ^d	2.543±0.142 ^{cd}	2.695±0.057 ^c	3.016±0.100 ^b	3.242±0.049 ^a
	21	2.430±0.098 ^a	2.488±0.088 ^a	2.395±0.052 ^{ab}	2.344±0.095 ^{ab}	2.274±0.042 ^b	2.270±0.119 ^b
	28	2.528±0.184 ^b	2.760±0.063 ^a	2.766±0.102 ^a	2.548±0.090 ^b	2.514±0.051 ^b	2.738±0.106 ^{ab}
GST (U/mg prot)	7	0.163±0.007 ^d	0.165±0.008 ^d	0.188±0.007 ^c	0.230±0.009 ^b	0.250±0.016 ^a	0.255±0.010 ^a
	14	0.171±0.007 ^c	0.167±0.008 ^c	0.181±0.008 ^c	0.219±0.012 ^b	0.252±0.015 ^a	0.253±0.010 ^a
	21	0.155±0.008 ^{bc}	0.145±0.008 ^c	0.161±0.015 ^{bc}	0.168±0.013 ^{ab}	0.152±0.011 ^{bc}	0.183±0.006 ^a
	28	0.144 ±0.010 ^a	0.145±0.005 ^a	0.152±0.004 ^a	0.152±0.013 ^a	0.141±0.011 ^a	0.146±0.010 ^a

Data are presented as mean ± SD. Different lowercase letters within each row indicate significant differences ($p < 0.05$, Fisher's LSD test). $n = 3$ replicates per treatment.