

Supplementary Materials: Methyl Parathion Exposure Induces Development Toxicity and Cardiotoxicity in Zebrafish Embryos

Table S1. Morphological abnormalities of embryos treated with 0, 2.5 and 10-mg/L concentrations of methyl parathion at 72 hpf. A, B, C represents three repetitions per concentration.

Morphological abnormalities	Repeating group	Treatment (72hpf)			
		0 mg/L (N=30)	2.5 mg/L (N=30)	5 mg/L (N=30)	10 mg/L (N=30)
Pericardial edema	A	0 (0%)	4 (13.3%)	14 (46.7%)	26 (86.7%)
	B	0 (0%)	3 (10%)	8 (26.7%)	25 (83.3%)
	C	0 (0%)	3 (10%)	10 (33.3%)	25 (83.3%)
Cardiac bleeding	A	0 (0%)	0 (0%)	2 (6.7%)	7 (23.3%)
	B	0 (0%)	0 (0%)	2 (6.7%)	9 (30%)
	C	0 (0%)	0 (0%)	0 (0%)	8 (26.7%)
Spinal curvature	A	0 (0%)	1 (3.3%)	0 (0%)	23 (76.7%)
	B	0 (0%)	0 (0%)	5 (16.7%)	25 (83.3%)
	C	0 (0%)	0 (0%)	0 (0%)	20 (66.7%)

Table S2. Sequences of primer pairs used in the real-time quantitative PCR reaction.

Target gene	GenBank Acc number	Primer sequence (5'-3')	Amplicon length
<i>β-actin</i>	NM_131031.2	F: AGGTCATCACCATCGGCAAT R: GATGTCCACGTCGCACTTCA	131
<i>vmhc</i>	NM_001112733.1	F: TGATATCGAGCGCAAAGTAGCCG R: CTGGATCTCCATCTCATTCAAGGTCG	175
<i>sox9b</i>	NM_001044780.1	F: TGACGAGTTGTTCTCCAGAG R: AGGCCACACGTCTATAACCC	261
<i>nppa</i>	NM_198800.3	F: GGATTTGACACACAGAGAAATCGCC R: TTGCAGCTAACCTTTTTAGAGTTGC	144
<i>bmp2b</i>	NM_131360.2	F: GAAAGCTTCGACGTGGGTTTCAG R: GTTCGAATGCAAGACGGCTGTG	246
<i>bmp4</i>	NM_131342.2	F: AGCACGTCAGCTTCGACTATCC R: GCGTCATCTATTTGTTGCCTG	209
<i>tnnt2</i>	NM_152893.1	F: CAGAATTGAGAAGCGTCGTTCG R: TTTGCATGTAACCGCCGAAGTG	191
<i>p53</i>	NM_001328587.1	F: TGCTTGAAGAACAGCCTCAGCCAT R: TATTCAGGTCCGGTGAATAAGTGCA	153
<i>bax</i>	NM_131562.2	F: GCGATACGGGCAGTGGCAATG R: GCGTTTATGGCTGGGGTCACAC	158
<i>bcl2</i>	NM_001030253.2	F: TGGCGTCCCAGGTAGATAATATTGC R: CGCAGAGGCTGTCACTTCTGAGC	235