

Supplementary Materials: Comparing Ocular Toxicity of Legacy and Alternative Per- and Polyfluoroalkyl Substances in Zebrafish Larvae

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Table S1. The primers of qRT-PCR.

Gene	Accession ID	Sequence (5' - 3')
<i>beta-actin</i>	NM_181601.5	F: CGAGCTGTCTTCCCATCCA R: TCACCAACGTAGCTGTCTTTCTG
<i>rho</i>	NM_131084	F: TCACAGTCCTGCCCAGACAT R: AGAATGCCGGTCCCTCTGTA
<i>opsn1sw2</i>	NM_131192	F: TCACAGTCCTGCCCAGACAT R: GAATACGCCACTGTGTCCCA
<i>opn1mw1</i>	NM_131253	F: ACTGCTCACTTGTGGGCTAC R: ACCTGACCTCCAAGTGTTC
<i>opn1lw1</i>	NM_001313715.1	F: GCCGAGAAGGAAGTGTCCAGAATG R: AAGCAGGCCGAAGAACGTGTAAGG
<i>rcorn3</i>	NM_200825.2	F: GTCCTACAGGTCGCATCACA R: AAACGTGTTGGGCGTAAGTG
<i>arr3a</i>	NM_001002405.1	F: CCTCATGGTATCAGGCGGAG R: AGTCTTGGGTTTGGGGTGC
<i>arr3b</i>	NM_200792.1	F: CCACGTGGAAAGCGTTGATT R: CTCGTCCATAGCGAAAGGCA
<i>crx</i>	NM_152940.1	F: GGTCAGCCCTCTTCCTACAG R: CATGGGAGAAAGGTACGGGC
<i>gnat2</i>	NM_131869.2	F: CTGGTGAAGCTGCCACAGTA R: GCACACTTGACTGCTTGCTG
<i>pde6ha</i>	NM_001305554	F: GACCACTCGCACCTTCAAGA R: ACAGTGATGTCTGTGCCGAG
<i>cnga1b</i>	XM_695944.9	F: TGTACCCGGACCCCTCAGAT R: CGATGGTAGTGAGCGTCAGG
<i>guca1d</i>	NM_001011661.1	F: TCCGTCAGGCCTCATCACT R: AAACGTGTTGGGCGTAAGTG
<i>guca1e</i>	NM_200656.1	F: CCTCATGGTATCAGGCGGAG R: CTGGAGGATTTTGTGCGTTCA
<i>gucy2d</i>	NM_131866.1	F: CATCAGCTGAAGAGGTTTCTCC R: ATACCCATCGCCCACTC

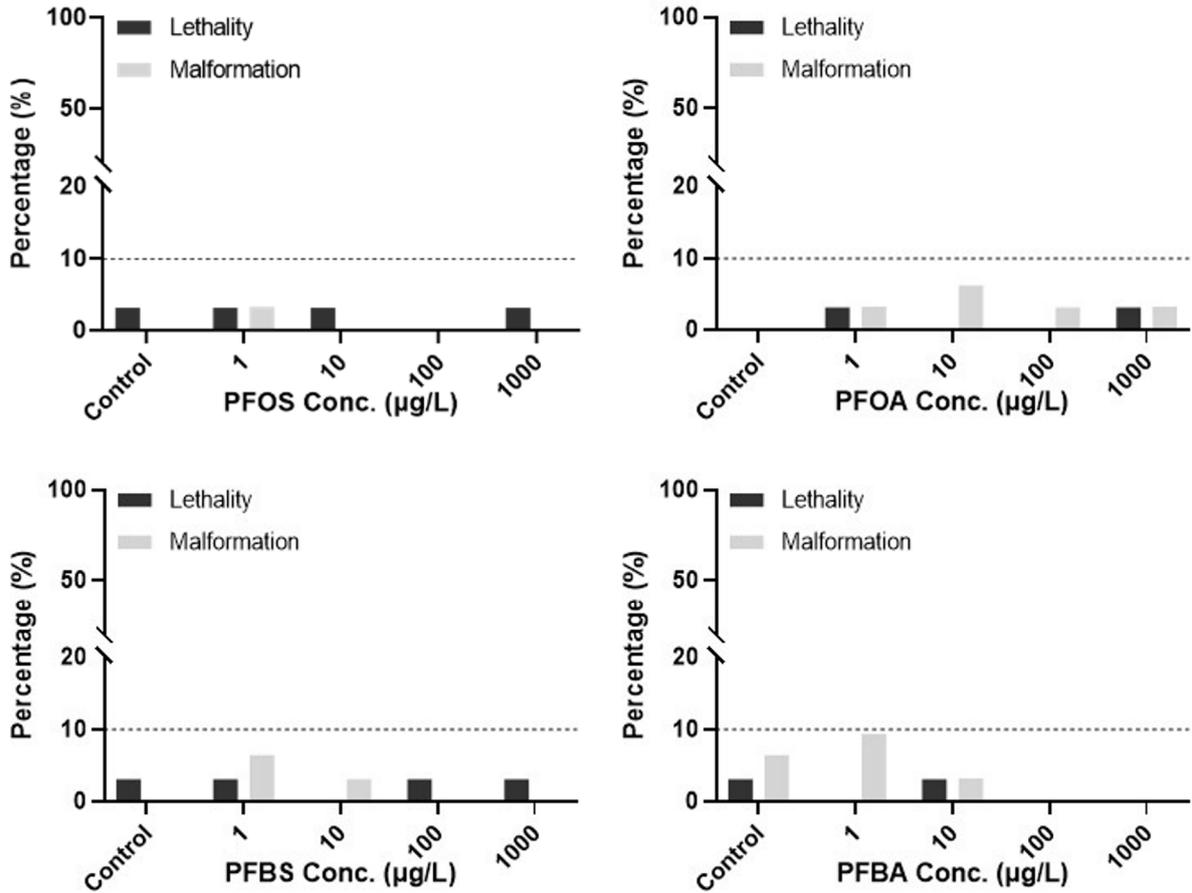


Figure S1. Lethality and malformation of larval zebrafish ($n = 32$).

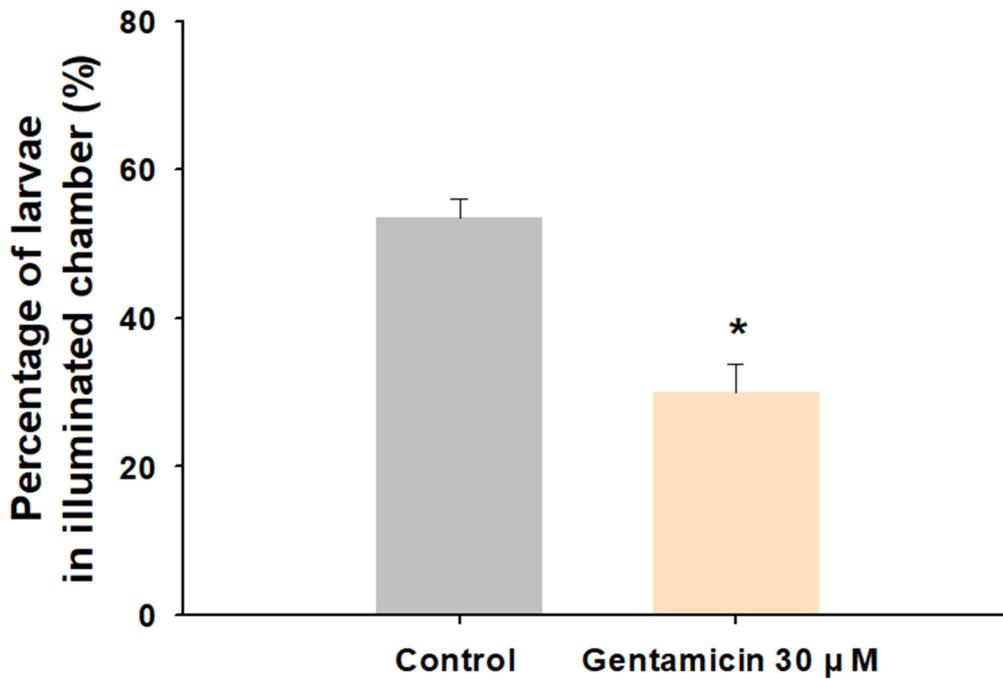


Figure S2. Phototactic response of zebrafish larvae exposed to Gentamicin at 30 µM. Significance was denoted by $*p < 0.05$.

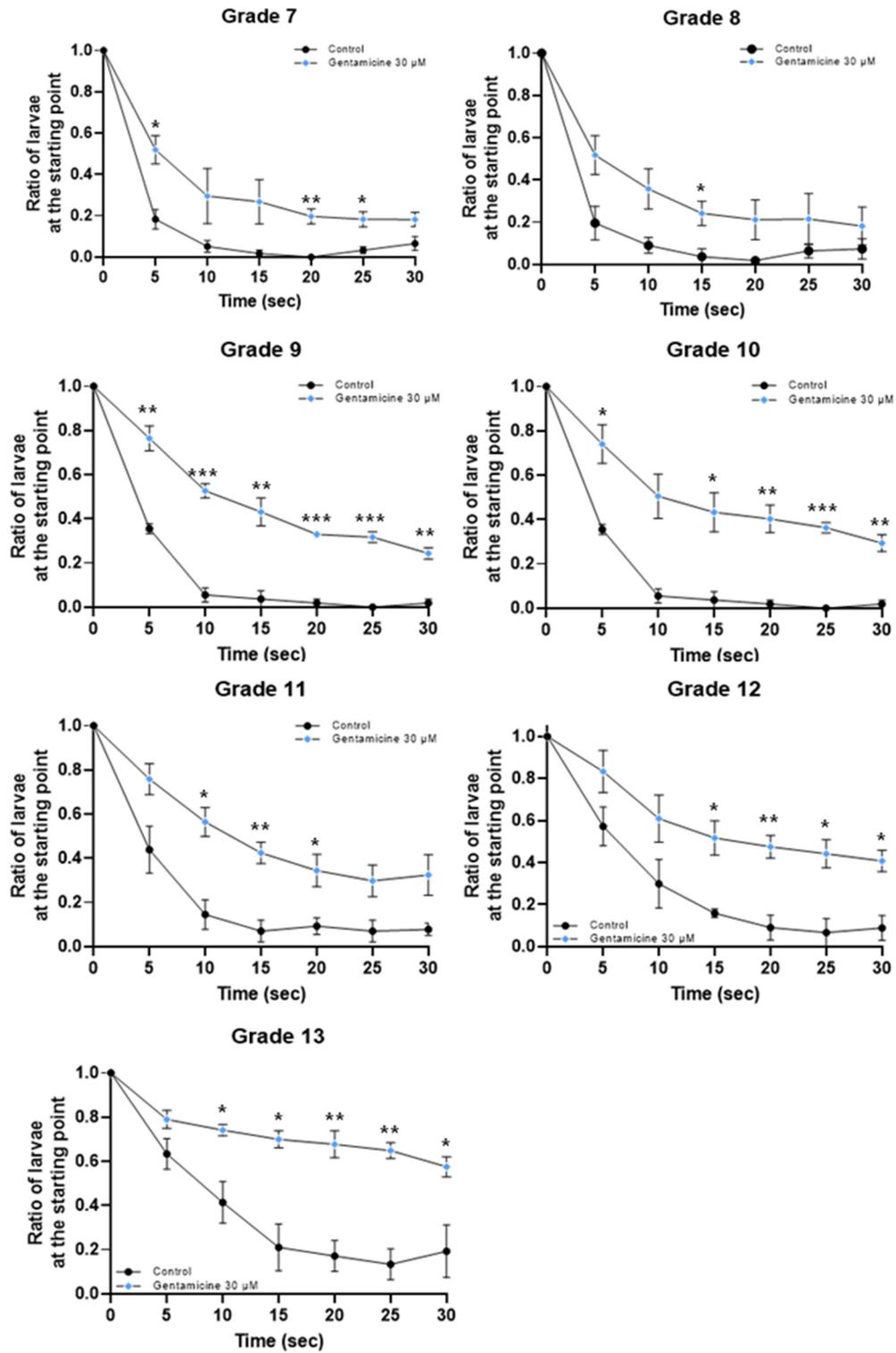


Figure S3. The ratio of larvae at the starting point curve after exposure to Gentamicin at 30 µM. Significance was denoted by * $p < 0.05$, ** $p < 0.01$, and *** $p < 0.001$.

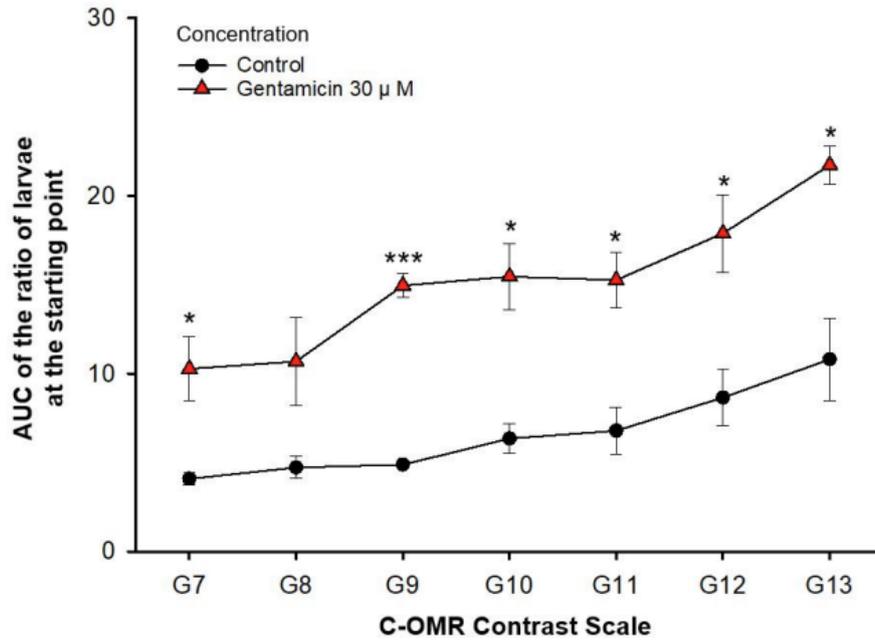


Figure S4. The area under the curve (AUC) of the ratio of larvae at the starting point curve after exposure to Gentamicin at 30 μM. Significance was denoted by * $p < 0.05$, ** $p < 0.01$, and *** $p < 0.001$.

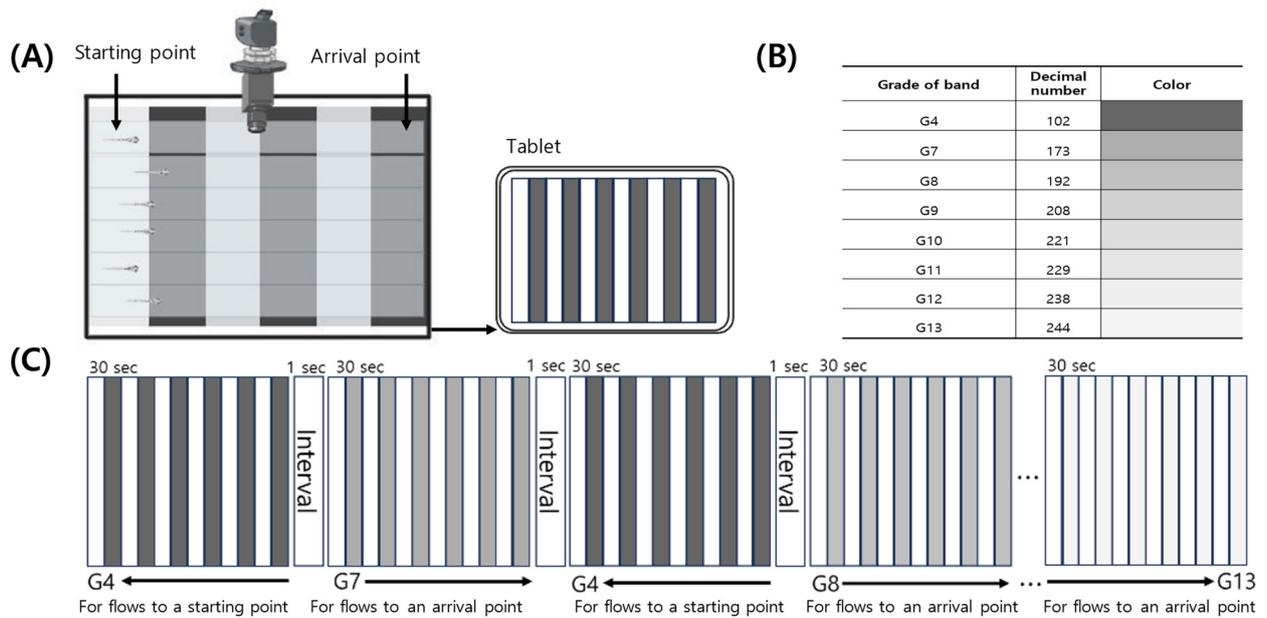


Figure S5. (A) Illustration of the swimming tray with six swimming lanes for zebrafish larvae with video recording system. (B) Graded color classes. (C) Order of playback on a tablet in the G4, G7–G13 gray band for contrast-optomotor response assay.