

**Appendix 1.** The *gpt* mutant frequencies in the liver of 2,4-DAT or 2,6-DAT-treated rats (Data from Lab D1)

Group	Animal No.	Number of packagings	Number of colonies	Number of 6TG <sup>r</sup> mutants	<i>gpt</i> MF	
					( $\times 10^{-6}$ )	Mean $\pm$ SD ( $\times 10^{-6}$ )
Vehicle control (Distilled water) 10 mL/kg $\times$ 28	M01001	5	879,000	3	3.41	
	M01002	5	936,000	0	0.00	
	M01003	5	825,000	1	1.21	
	M01004	5	753,000	1	1.33	
	M01005	5	582,000	2	3.44	1.88 $\pm$ 1.51
2,4-DAT 10 mg/kg $\times$ 28	M02001	5	828,000	1	1.21	
	M02002	5	546,000	3	5.49	
	M02003	5	1,128,000	11	9.75	
	M02004	5	366,000	2	5.46	
	M02005	5	306,000	4	13.07	7.00 $\pm$ 4.54 *
2,4-DAT 30 mg/kg $\times$ 28	M03001	5	402,000	4	9.95	
	M03002	5	342,000	1	2.92	
	M03003	5	585,000	6	10.26	
	M03004	5	831,000	12	14.44	
	M03005	5	546,000	3	5.49	8.61 $\pm$ 4.49 †
2,6-DAT 60 mg/kg $\times$ 28	M04001	5	555,000	1	1.80	
	M04002	5	351,000	1	2.85	
	M04003	5	333,000	0	0.00	
	M04004	5	2,154,000	8	3.71	
	M04005	5	510,000	3	5.88	2.85 $\pm$ 2.19
ENU 50 mg/kg $\times$ 5	51	5	903,000	70	77.52	
	52	5	711,000	55	77.36	
	53	5	1,140,000	35	30.70	
	54	5	792,000	42	53.03	
	55	5	549,000	42	76.50	63.02 $\pm$ 20.87 ‡

\*  $p < 0.05$  Dunett's test; †  $p < 0.01$  Dunett's test; ‡  $p < 0.01$  Welch's *t*-test