

Supplementary table. Liver assays (mean ± SD)

Exposure	Day	Group	[P450]	γ CYP1A2	γ CYP2E1	GSH	GSSG	GST
			pmol/mg proteins	pmol/min/mg proteins	nmol/min/mg proteins	nmol/mg proteins	nmol/mg proteins	U/g proteins
MEK20	5	Exposed	486 ± 68	21.2 ± 4.3	0.29 ± 0.06	17.9 ± 3.4	0.21 ± 0.05	1440 ± 373
MEK20	5	Control	489 ± 74	20.8 ± 4.0	0.22 ± 0.10	26.5 ± 7.4	0.25 ± 0.11	1522 ± 162
MEK20	20	Exposed	561 ± 50	19.4 ± 4.0	0.17 ± 0.05	19.2 ± 2.2	0.16 ± 0.03	1688 ± 239
MEK20	20	Control	544 ± 39	15.3 ± 2.2	0.20 ± 0.13	24.2 ± 2.8	0.18 ± 0.06	1526 ± 137
MEK200	5	Exposed	467 ± 52	21.0 ± 3.1	0.38 ± 0.22	21.0 ± 1.8	0.21 ± 0.02	1576 ± 128
MEK200	5	Control	431 ± 64	18.5 ± 2.3	0.22 ± 0.06	22.8 ± 3.4	0.35 ± 0.12	1713 ± 150
MEK200	20	Exposed	617 ± 40	16.8 ± 2.7	0.29 ± 0.08	22.5 ± 4.7	0.25 ± 0.02	1290 ± 109
MEK200	20	Control	526 ± 39	12.5 ± 2.1	0.11 ± 0.03	29.4 ± 9.4	0.31 ± 0.11	1777 ± 209
MEK1400	5	Exposed	422 ± 88	22.0 ± 3.4	0.38 ± 0.15	22.6 ± 3.5	0.37 ± 0.09	1325 ± 121
MEK1400	5	Control	451 ± 86	15.5 ± 3.2	0.35 ± 0.27	30.2 ± 8.4	0.59 ± 0.13	2222 ± 869
MEK1400	20	Exposed	623 ± 68	23.8 ± 4.0	0.49 ± 0.09	21.1 ± 1.3	0.37 ± 0.08	1360 ± 78
MEK1400	20	Control	588 ± 82	14.0 ± 2.8	0.29 ± 0.07	25.4 ± 2.3	0.48 ± 0.05	1698 ± 202
TOL5	5	Exposed	531 ± 122	29.5 ± 6.2	0.30 ± 0.04	16.6 ± 1.9	0.28 ± 0.04	1805 ± 192
TOL5	5	Control	585 ± 91	18.5 ± 2.2	0.36 ± 0.09	22.3 ± 1.8	0.39 ± 0.04	1642 ± 110
TOL5	20	Exposed	703 ± 102	24.3 ± 5.6	0.39 ± 0.06	15.2 ± 2.0	0.20 ± 0.03	1373 ± 123
TOL5	20	Control	622 ± 186	21.4 ± 3.1	0.36 ± 0.05	19.3 ± 1.6	0.29 ± 0.04	1576 ± 224
TOL50	5	Exposed	619 ± 29	14.7 ± 1.4	0.24 ± 0.06	19.7 ± 3.6	0.35 ± 0.10	1254 ± 151
TOL50	5	Control	544 ± 54	11.4 ± 2.5	0.16 ± 0.04	20.7 ± 3.3	0.38 ± 0.14	1370 ± 174
TOL50	20	Exposed	528 ± 61	10.6 ± 2.7	0.23 ± 0.06	21.8 ± 7.1	0.40 ± 0.16	1542 ± 475
TOL50	20	Control	510 ± 24	7.7 ± 0.7	0.19 ± 0.05	29.4 ± 5.5	0.53 ± 0.14	1339 ± 243
TOL500	5	Exposed	568 ± 102	19.5 ± 3.9	0.31 ± 0.08	18.6 ± 3.0	0.31 ± 0.06	1419 ± 118
TOL500	5	Control	569 ± 155	10.3 ± 1.6	0.22 ± 0.11	22.2 ± 6.3	0.34 ± 0.10	1468 ± 143
TOL500	20	Exposed	683 ± 34	21.1 ± 4.1	0.42 ± 0.07	19.4 ± 2.7	0.45 ± 0.09	1412 ± 330
TOL500	20	Control	620 ± 63	9.7 ± 1.9	0.31 ± 0.08	22.5 ± 3.3	0.46 ± 0.07	1308 ± 146

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			pmol/mg proteins	pmol/min/mg proteins	nmol/min/mg proteins	nmol/mg proteins	nmol/mg proteins	U/g proteins
TOL5/MEK200	5	Exposed	622 ± 165	25.5 ± 5.3	0.40 ± 0.08	20.2 ± 1.3	0.18 ± 0.01	1780 ± 217
TOL5/MEK200	5	Control	599 ± 34	23.9 ± 3.1	0.36 ± 0.05	21.7 ± 2.1	0.26 ± 0.06	1713 ± 177
TOL5/MEK200	20	Exposed	626 ± 73	19.8 ± 5.8	0.47 ± 0.05	19.6 ± 1.8	0.20 ± 0.02	1614 ± 125
TOL5/MEK200	20	Control	657 ± 119	13.2 ± 3.1	0.39 ± 0.08	22.2 ± 2.2	0.22 ± 0.03	1532 ± 166
TOL50/MEK20	5	Exposed	589 ± 75	24.8 ± 2.8	0.42 ± 0.12	25.4 ± 1.7	0.22 ± 0.04	1685 ± 99
TOL50/MEK20	5	Control	546 ± 111	13.7 ± 2.6	0.44 ± 0.12	27.8 ± 2.8	0.29 ± 0.04	1824 ± 108
TOL50/MEK20	20	Exposed	838 ± 302	24.9 ± 6.2	0.60 ± 0.08	25.5 ± 3.2	0.24 ± 0.05	1622 ± 201
TOL50/MEK20	20	Control	562 ± 52	21.2 ± 4.1	0.55 ± 0.10	28.9 ± 3.6	0.27 ± 0.05	1681 ± 188
TOL50/MEK200	5	Exposed	420 ± 76	30.7 ± 6.8	0.52 ± 0.10	19.0 ± 2.6	0.16 ± 0.05	2160 ± 105
TOL50/MEK200	5	Control	419 ± 106	28.2 ± 7.5	0.39 ± 0.05	19.8 ± 2.4	0.20 ± 0.07	2002 ± 55
TOL50/MEK200	20	Exposed	632 ± 65	31.9 ± 3.6	0.49 ± 0.07	17.4 ± 1.3	0.20 ± 0.07	1763 ± 162
TOL50/MEK200	20	Control	628 ± 83	24.5 ± 4.3	0.38 ± 0.05	21.3 ± 2.8	0.22 ± 0.06	1803 ± 137
TOL50/MEK1400	5	Exposed	773 ± 47	34.8 ± 4.3	0.58 ± 0.10	16.3 ± 3.0	0.14 ± 0.05	2017 ± 148
TOL50/MEK1400	5	Control	454 ± 121	21.3 ± 5.4	0.48 ± 0.10	25.0 ± 4.4	0.20 ± 0.07	2004 ± 149
TOL50/MEK1400	20	Exposed	647 ± 51	36.8 ± 4.7	0.55 ± 0.05	16.5 ± 1.9	0.13 ± 0.04	1974 ± 99
TOL50/MEK1400	20	Control	523 ± 58	22.9 ± 4.0	0.29 ± 0.05	19.3 ± 4.1	0.16 ± 0.07	1884 ± 195
TOL500/MEK200	5	Exposed	618 ± 46	20.5 ± 2.3	0.40 ± 0.10	12.7 ± 3.5	0.62 ± 0.18	1196 ± 119
TOL500/MEK200	5	Control	644 ± 53	16.2 ± 2.1	0.30 ± 0.05	12.7 ± 5.0	0.54 ± 0.30	1278 ± 102
TOL500/MEK200	20	Exposed	660 ± 44	22.1 ± 2.7	0.41 ± 0.06	13.7 ± 2.6	0.75 ± 0.21	1747 ± 401
TOL500/MEK200	20	Control	614 ± 30	13.6 ± 2.4	0.34 ± 0.07	18.2 ± 2.1	0.77 ± 0.15	1618 ± 477