

**Table S13 Gene families of enzymes involved in metabolism and transport of xenobiotics.**

Gene Family	Representative Genes	Dmel	Dsec	Dsim	Dere	Dyak	Dbia	Dsuz	Dtak	Dana	Dper	Dpse	Dwil	Dgri	Dmoj	Dvir
Esterases	Ace, $\alpha$ -Est2, $\alpha$ -Est7	31	34	28	32	35	23	<b>27</b>	23	34	34	35	43	28	36	35
GST	GstD2, GstD7, GstE12	25	28	25	26	28	8	<b>9</b>	7	31	20	21	29	21	19	21
GST	GstO1, GstO2, GstO3	4	5	5	5	5	1	<b>2</b>	1	5	5	5	5	3	3	4
GST	GstT1, GstT2, GstT3	4	4	4	4	4	1	<b>3</b>	2	5	4	4	4	3	3	3
GST	GstZ2,GstZ1	2	2	2	2	2	2	<b>3</b>	2	2	2	2	2	3	2	2
GST	GstS1	1	1	1	1	1	1	<b>1</b>	1	1	1	1	1	1	1	1
Cyp type 3, 4	Cyp4e1, Cyp6g1, Cyp6a2	68	78	72	67	74	52	<b>55</b>	56	79	65	66	78	72	61	64
mt Cyp	Cyp12d1, Cyp49a1	11	11	11	12	11	7	<b>10</b>	8	11	13	14	13	11	10	9
Cyp	Cyp1, Cyp33	8	9	7	8	8	5	<b>7</b>	6	7	6	7	8	11	12	10
Cyp type 2	Cyp18a1, Cyp303a1	4	4	4	4	5	3	<b>4</b>	3	4	6	4	4	5	5	6
UGT	Ugt35a, Ugt86Dd	35	37	34	32	41	24	<b>28</b>	26	39	30	31	43	30	29	32
UGT	Ugt	1	1	1	1	3	1	<b>1</b>	1	1	2	1	1	1	1	1