

Functions	Gene Symbol	(A) 24h after adhesion N = 4 - 10	(B)		
			24h after perfusion N = 2	48h after perfusion N = 5	72h after perfusion N = 6
Hepatic Transcription factors	<i>HNF4a</i>	31.3 ± 10.1	19.3 ± 12.5	36.6 ± 6.0	23.8 ± 2.8
	<i>CEBP</i>	35.3 ± 7.9	6.9 ± 3.8	15.1 ± 2.9	22.8 ± 0.4
Xenosensors	<i>AhR</i>	63.9 ± 11.8	66.9 ± 26.2	80.6 ± 0.1	48.3 ± 12.0
	<i>PXR - NR1I2</i>	78.9 ± 15.6	28.72 ± 18.3	48.8 ± 11.8	13.5 ± 1.5
	<i>CAR - NRI3</i>	26.6 ± 7.99	47.1 ± 22.1	24.4 ± 3.7	6.4 ± 0.9
	<i>FXR - NR1H4</i>	18.3 ± 6.4	8.1 ± 2.9	8.5 ± 2.8	10.3 ± 0.9
CYPs	<i>CYP1A2</i>	70.30 ± 4.62	11.3 ± 3.5	19.8 ± 4.2	36.5 ± 20
	<i>CYP3A2</i>	13.5 ± 3.7	0.8 ± 0.1	2.7 ± 0.6	2.5 ± 0.1
	<i>CYP3A23/3A1</i>	235.1 ± 38.2	453.90 ± 38.84	1979.1 ± 115.1	1982.3 ± 47.6
	<i>CYP7A1</i>	1.9 ± 0.6	0.8 ± 0.7	1.8 ± 0.7	0.2 ± 0.0
	<i>CYP2B1</i>	397.1 ± 21.2	28.1 ± 8.8	394.6 ± 15.2	176.8 ± 55.5
	<i>CYP2C6</i>	44.7 ± 7.9	3.1 ± 1	8.2 ± 0.0	5.1 ± 0.1
	<i>CYP2C</i>	23.7 ± 6.9	0.2 ± 0.0	1.2 ± 0.2	0.4 ± 0.0
	<i>CYP2D1</i>	55.7 ± 8.99	9.3 ± 2.2	17.1 ± 4.3	14.0 ± 1.9
	<i>CYP2D2</i>	26.5 ± 3.99	1.9 ± 0.1	4.5 ± 0.2	3.7 ± 0.8
	<i>CYP2E1</i>	39.7 ± 10.6	0.2 ± 0.1	0.0 ± 0.0	0.0 ± 0.0
Phase II Enzymes	<i>GSTA2</i>	49.6 ± 6.7	129.5 ± 46.0	315.7 ± 87.2	310.7 ± 84.6
	<i>SULT1A1</i>	21.5 ± 3.4	24.2 ± 0.1	57.8 ± 2.0	45.8 ± 11.3
	<i>UGT1A6</i>	275.4 ± 55	193.1 ± 67.8	292.4 ± 5.7	52.5 ± 16.2
ABC transporters	<i>Pgp - ABCB1b</i>	1033.4 ± 454.6	7460.3 ± 4099.9	8239.0 ± 1877.1	3019.8 ± 922.4
	<i>MRP2- ABCC2</i>	218.4 ± 35	511.9 ± 199.5	445.5 ± 147.5	157.0 ± 53.6
Oxidative stress - Inflammation	<i>HMOX1</i>	2938.6 ± 886.3	394.5 ± 14.6	1516.9 ± 474.1	1465.1 ± 277.0
Oxidative stress	<i>NQO1</i>	625.7 ± 189.7	697.9 ± 455.8	457.9 ± 56.9	1580.7 ± 542.8

Table 2 : Comparative study of expression of selected mRNA of genes implicated in xenobiotic metabolism. Results are expressed as % compared to the levels in post-extracted rat hepatocytes : 24h after adhesion (column A) and after 24, 48 and 72h of perfusion (column B) (mean ± SEM; number of replicates are indicated in each column).