

Genes upregulated in the TOL group compared to the CTRL group (n=62)

Biological Process	Nr. of genes	Ref. dataset	p-value
Signal transduction	20	3666	0.001
Cell communication	9	1288	0.006
Immunity and defense	8	1303	0.021
Intracellular signaling cascade	7	869	0.008
Cell proliferation and differentiation	6	753	0.014
Cell cycle control	5	389	0.004
Oncogenesis	5	597	0.021
Lipid, fatty acid and steroid metabolism	5	694	0.036
MAPKKK cascade	4	215	0.003
Steroid hormone-mediated signaling	3	31	0.000
Amino acid catabolism	2	44	0.006
JNK cascade	2	51	0.008
Oogenesis	2	61	0.012
Detoxification	2	76	0.017
JAK-STAT cascade	2	87	0.022
Tumor suppressor	2	107	0.033
Other oncogenesis	2	110	0.034
Phospholipid metabolism	2	113	0.036

Genes downregulated in the TOL group compared to the CTRL group (n=51)

Biological Process	Nr. of genes	Ref. dataset	p-value
Intracellular protein traffic	5	902	0.045
Carbohydrate metabolism	4	511	0.025
Cell motility	3	290	0.025
Exocytosis	2	161	0.048
Other immune and defense	2	88	0.016
Regulated exocytosis	2	63	0.008
Tricarboxylic acid pathway	2	27	0.002