

Categories	Functions Annotation	p-Value	Activation z-score	Molecules
A. For day 12 of the estrous cycle vs. day 12 of pregnancy				
Cellular Movement, Hematological System Development and Function, Immune Cell Trafficking	cell movement of lymphocytes	1,40E-12	2,673	ESR2,FAS,FOS,IFNG,LDLR,PTGES,PTGS2,TNF,TNFRSF1A
	infiltration of phagocytes	1,24E-09	2,207	IFNG,LDLR,PTGES,PTGS2,TNF,TNFRSF1A
	infiltration by lymphocytes	1,80E-14	2,349	ESR2,FAS,IFNG,LDLR,PTGES,PTGS2,TNF,TNFRSF1A
	Lymphocyte migration	2,07E-09	2,050	ESR2,FAS,FOS,IFNG,LDLR,TNF,TNFRSF1A
Lipid Metabolism, Small Molecule Biochemistry	cleavage of lipid	3,68E-11	2,520	CYP17A1,FAS,IFNG,LDLR,PTGES2,TNF,TNFRSF1A
	synthesis of lipid	9,29E-12	2,304	CYP17A1,ESR2,FAS,FOS,IFNG,LDLR,PTGES,PTGS2,TNF,TNFRSF1A
	hydrolysis of lipid	1,53E-07	2,119	FAS,IFNG,LDLR,TNF,TNFRSF1A
Inflammatory Response	inflammatory response	2,50E-08	2,416	CASP3,FOS,IFNG,LDLR,PTGES,PTGS2,TNF,TNFRSF1A
Organismal Development	size of body	2,38E-06	2,340	CASP3,ESR2,FOS,IFNG,PTGES,TNF,TNFRSF1A
Lipid Metabolism, Molecular Transport, Small Molecule Biochemistry	release of eicosanoid	2,70E-10	2,334	FAS,IFNG,PTGES,PTGS2,TNF,TNFRSF1A
Cell Death and Survival	cell death of islet cells	1,47E-11	2,320	CASP3,FAS,IFNG,LDLR,TNF,TNFRSF1A
	neuronal cell death	1,17E-08	2,234	CASP3,ESR2,FAS,FOS,IFNG,PTGS2,TNF,TNFRSF1A
	apoptosis of microvascular endothelial cells	1,36E-11	2,219	CASP3,FAS,IFNG,TNF,TNFRSF1A
	apoptosis of kidney cell lines	4,73E-07	2,176	CASP3,FAS,FOS,TNF,TNFRSF1A
	apoptosis of neuroglia	1,99E-09	2,167	CASP3,FAS,IFNG,PTGS2,TNF
	cell death of beta islet cells	8,88E-10	2,126	CASP3,FAS,IFNG,TNF,TNFRSF1A
	apoptosis of islet cells	1,08E-09	2,125	CASP3,FAS,IFNG,LDLR,TNF
	apoptosis of leukocyte cell lines	9,78E-08	2,118	CASP3,FAS,IFNG,TNF,TNFRSF1A
	apoptosis of smooth muscle cells	6,66E-09	2,054	CASP3,FAS,IFNG,TNF,TNFRSF1A
	apoptosis of fibroblasts	1,92E-07	2,051	CASP3,FAS,IFNG,TNF,TNFRSF1A
	apoptosis of lymphoma cell lines	9,29E-08	2,079	CASP3,FAS,IFNG,TNF,TNFRSF1A
	cell death of kidney cells	2,37E-09	2,017	CASP3,FAS,FOS,IFNG,PTGS2,TNF,TNFRSF1A
	apoptosis of astrocytes	7,91E-10	2,000	CASP3,FAS,IFNG,TNF
Cell-mediated Immune Response, Cellular Movement, Hematological System Development and Function, Immune Cell Trafficking	T cell migration	1,28E-08	2,295	ESR2,FAS,IFNG,LDLR,TNF,TNFRSF1A
Organismal Survival	survival of organism	1,33E-08	2,163	FAS,FOS,IFNG,LDLR,PTGES,PTGS2,TNF,TNFRSF1A

Cell-To-Cell Signaling and Interaction, Hematological System Development and Function, Immune Cell Trafficking, Inflammatory Response	activation of leukocytes	1,44E-08	2,090	FAS,FOS,IFNG,LDLR,PTGES,PTGS2,TNF,TNFRSF1A
Humoral Immune Response, Protein Synthesis	quantity of IgG	3,83E-07	2,057	IFNG,LDLR,PTGS2,TNF,TNFRSF1A
B. For day 14 of the estrous cycle vs. day 8 of the estrus cycle				
Cellular Development, Tissue Development	differentiation of epithelial tissue	1,63E-12	3,105	ANGPT1,CYP19A1,EDN1,ESR2,FGFR2,FLT1,IFNG,PTGS2,TNF,TNFRSF1B,TP53
	differentiation of epithelial cells	1,11E-08	2,758	CYP19A1,EDN1,FGFR2,IFNG,PTGS2,TNF,TNFRSF1B,TP53
Free Radical Scavenging	synthesis of reactive oxygen species	1,10E-10	3,022	BAX,EDN1,ESR2,FOS,IFNG,NFKB1A,PTGFR,PTGS2,SCARB1,TNF,TP53
	production of reactive oxygen species	3,36E-09	2,575	BAX,EDN1,ESR2,IFNG,NFKB1A,PTGS2,SCARB1,TNF,TP53
	formation of reactive oxygen species	1,72E-09	2,386	BAX,EDN1,IFNG,PTGFR,TNF,TP53
Lipid Metabolism, Small Molecule Biochemistry	synthesis of lipid	8,00E-22	3,003	ANGPT1,CYP11A1,CYP17A1,CYP19A1,EDN1,ESR2,FLT1,FOS,HSD17B1,IFNG,NFKB1,NFKB1A,PTGER2,PTGES,PTGS2,PTX3,SCARB1,TNF,TNFRSF1B,TP53
	cleavage of lipid	1,66E-08	2,562	CYP11A1,CYP17A1,EDN1,IFNG,PTGS2,SCARB1,TNF
Cell-To-Cell Signaling and Interaction, Cellular Movement	recruitment of cells	2,64E-12	2,980	ANGPT1,EDN1,FLT1,FOS,IFNG,NFKB1A,PTGS2,PTX3,TEK,TNF,TNFRSF1B
	recruitment of blood cells	9,80E-10	2,906	ANGPT1,EDN1,FLT1,FOS,IFNG,NFKB1A,PTX3,TNF,TNFRSF1B
Organismal Survival	survival of organism	1,22E-15	2,841	ANGPT1,BAX,CYP19A1,FLT1,FOS,IFNG,NFKB1,NFKB1A,PTGER4,PTGES,PTGS2,PTX3,SCARB1,TNF,TNFRSF1B,TP53
Cell Death and Survival	apoptosis of connective tissue cells	2,65E-10	2,760	BAX,CYP19A1,FGFR2,IFNG,JUN,NFKB1A,TNF,TNFRSF1B,TP53
	apoptosis of fibroblasts	1,38E-08	2,564	BAX,IFNG,JUN,NFKB1A,TNF,TNFRSF1B,TP53
	apoptosis of lymphoblastoid cell lines	1,13E-09	2,216	BAX,IFNG,NFKB1A,TNF,TP53
	cell death of epithelial cell lines	2,72E-10	2,210	BAX,FOS,IFNG,JUN,NFKB1,NFKB1A,TNF,TNFRSF1B,TP53
	cell death of fibroblasts	2,56E-09	2,208	BAX,IFNG,JUN,NFKB1,NFKB1A,TNF,TNFRSF1B,TP53

	cell death of kidney cells	2,51E-12	2,142	BAX,EDN1,FLT1,FOS,IFNG,NFKB1,NFKBIA,PTGS2,TNF,TNFRSF1B,TP53
	apoptosis of vascular endothelial cells	3,73E-09	2,138	ANGPT1,BAX,FLT1,IFNG,TNF,TP53
Cell-To-Cell Signaling and Interaction, Cellular Movement, Hematological System Development and Function, Immune Cell Trafficking	recruitment of leukocytes	2,14E-08	2,740	EDN1,FLT1,FOS,IFNG,NFKBIA,PTX3,TNF,TNFRSF1B
Cell-To-Cell Signaling and Interaction, Hematological System Development and Function, Immune Cell Trafficking, Inflammatory Response	activation of leukocytes	1,09E-12	2,372	ANGPT1,BAX,EDN1,FOS,IFNG,NFKB1,NFKBIA,PTGER2,PTGER4,PTGES,PTGS2,TNF,TNFRSF1B,TP53
	activation of phagocytes	1,12E-10	2,167	ANGPT1,EDN1,IFNG,PTGER2,PTGER4,PTGES,PTGS2,TNF,TNFRSF1B,TP53
	activation of lymphocytes	3,21E-08	2,163	BAX,FOS,IFNG,NFKB1,NFKBIA,PTGER4,TNF,TNFRSF1B,TP53
	activation of antigen presenting cells	2,10E-11	2,122	ANGPT1,EDN1,IFNG,PTGER2,PTGER4,PTGES,PTGS2,TNF,TNFRSF1B,TP53
Lipid Metabolism, Small Molecule Biochemistry, Vitamin and Mineral Metabolism	synthesis of steroid	1,61E-15	2,646	ANGPT1,CYP11A1,CYP17A1,CYP19A1,EDN1,ESR2,HSD17B1,IFNG,SCARB1,TNF,TNFRSF1B,TP53
Cell Death and Survival, Embryonic Development	cell death of embryonic cell lines	5,47E-08	2,568	BAX,CYP11A1,IFNG,NFKB1,TNF,TNFRSF1B,TP53