

LIVER GO Terms						
Atg7 ^{flox/flox} ;Fed/Atg7 ^{Δ/Δ} ;Fed Comparison	Atg7 ^{Δ/Δ} ;Fed Upregulated Genes	Atg7 ^{Δ/Δ} ;Fed Upregulated Genes	Atg7 ^{Δ/Δ} ;Fed Downregulated Genes	Atg7 ^{Δ/Δ} ;Fed Downregulated Genes	p-value	Bonferroni
GO:0006954 inflammatory response	15	CHI3L3, CXCL10, ORM3, TLR2, SAA3, SAA2, CD14, ORM2, CXCL2, CXCL1, CXCL13, SAA1, IL1B, LBP, NFKBIZ	0		1.47E-11	8.94E-09
GO:0006952 defense response	19	CXCL1, NFKBIZ, NGP, CAMP, CXCL2, TLR2, SAA3, RSAD2, CHI3L3, CXCL10, SAA2, CXCL13, SAA1, IL1B, LBP, DEFB1, ORM2, CD14, ORM3	0		2.00E-11	1.21E-08
GO:0009611 response to wounding	16	CHI3L3, CXCL10, ORM3, TLR2, SAA3, SAA2, CD14, F13A1, ORM2, CXCL2, CXCL1, CXCL13, SAA1, IL1B, LBP, NFKBIZ	-1	F3	4.07E-11	2.47E-08
GO:0006953 acute-phase response	7	SAA2, SAA1, SAA3, IL1B, LBP, ORM2, ORM3	0		1.14E-08	6.90E-06
GO:0006955 immune response	16	CXCL1, IL1RN, CXCL2, TLR2, RSAD2, CXCL10, CXCL13, OASL2, OASL1, GADD45G, IL1B, TGTP1, LBP, DEFB1, GBP2, CD14	0		2.79E-08	1.70E-05
GO:0055114 oxidation reduction	9	CBR3, NQO1, STEAP4, CYP8B1, CYP2G1, CYP3A41A, SRXN1, SQLE, CYP2F2	-8	NOX4, HSD3B5, CYP2B13, CYP4A10, CYP4A12A, HSD17B6, CYP4A14, RETSAT	4.92E-07	2.99E-04
GO:0002526 acute inflammatory response	7	SAA2, SAA1, SAA3, IL1B, LBP, ORM2, ORM3	0		4.99E-06	0.003023
GO:0006935 chemotaxis	7	S100A8, CXCL13, CXCL2, S100A9, IL1B, LBP, CXCL10	0		2.76E-05	0.016616
GO:0042330 taxis	7	S100A8, CXCL13, CXCL2, S100A9, IL1B, LBP, CXCL10	0		2.76E-05	0.016616

Atg7 ^{flox/flox} ;Fed/Atg7 ^{flox/flox} ;Fasted Comparison	Atg7 ^{flox/flox} ;Fasted Upregulated Genes	Atg7 ^{flox/flox} ;Fasted Upregulated Genes	Atg7 ^{flox/flox} ;Fasted Downregulated Genes	Atg7 ^{flox/flox} ;Fasted Downregulated Genes	p-value	Bonferroni
GO:0008202 steroid metabolic process	4	LEPR, CYP17A1, CYP39A1, SULT1E1	-15	SREBF1, CYP51, HSD3B2, HSD3B3, HSD3B5, HMGCS1, PMVK, AKR1C20, FDFT1, SC4MOL, SERPINA6, DHCR7, HSD17B6, MVK, NSDHL	1.78E-16	1.48E-13
GO:0006694 steroid biosynthetic process	2	CYP17A1, CYP39A1	-12	CYP51, HSD3B2, HSD3B3, HSD3B5, HMGCS1, PMVK, AKR1C20, FDFT1, SC4MOL, DHCR7, MVK, NSDHL	5.03E-15	3.33E-12
GO:0055114 oxidation reduction	10	CYP8B1, CYP17A1, CYP4A14, CYP4A31, CYP3A41A, CYP4A10, FMO3, CYP39A1, RETSAT, FMO2	-20	HSD17B6, NSDHL, PTGR1, CYP2C55, CYP3A16, CYP2B13, CYP1A2, CYB5B, AKR1C20, RDH11, SQLE, HAO2, AOX3	7.97E-15	5.32E-12
GO:0016125 sterol metabolic process	2	LEPR, CYP39A1	-9	SREBF1, CYP51, DHCR7, HMGCS1, MVK, PMVK, SC4MOL, NSDHL, FDFT1	2.89E-10	1.92E-07
GO:0008610 lipid biosynthetic process	3	CYP17A1, ACACB, CYP39A1	-14	CYP51, HSD3B2, HSD3B3, HSD3B5, HMGCS1, PMVK, AKR1C20, FDFT1, SC4MOL, DHCR7, ELOVL3, MVK, FABP5, NSDHL	4.02E-10	2.68E-07
GO:0016126 sterol biosynthetic process	0		-8	CYP51, DHCR7, HMGCS1, MVK, PMVK, SC4MOL, NSDHL, FDFT1	2.06E-09	1.37E-06
GO:0008203 cholesterol metabolic process	2	LEPR, CYP39A1	-8	SREBF1, CYP51, DHCR7, HMGCS1, MVK, PMVK, NSDHL, FDFT1	2.57E-09	1.71E-06
GO:0006695 cholesterol biosynthetic process	0		-7	CYP51, DHCR7, HMGCS1, MVK, PMVK, NSDHL, FDFT1	1.49E-08	9.92E-06

Atg7 ^{Δ/Δ} ;Fed/Atg7 ^{Δ/Δ} ;Fasted Comparison	Atg7 ^{Δ/Δ} ;Fasted Upregulated Genes	Atg7 ^{Δ/Δ} ;Fasted Upregulated Genes	Atg7 ^{Δ/Δ} ;Fasted Downregulated Genes	Atg7 ^{Δ/Δ} ;Fasted Downregulated Genes	p-value	Bonferroni
GO:0006955 immune response	5	CD28, APOA4, GADD45G, IL10, CCL6	-29	CXCL1, IFIH1, LST1, TLR1, TLR2, CXCL9, RSAD2, TLR4, IL15, CD74, RAET1A, CXCL10, OASL2, IL1B, LTB, GBP8, IRGM1, GBP6, H2-AB1, PSMB9, SERPINA3G, H2-EB1, H2-AA, CD79B, OAS1A, H2-DMA, GBP3, HSD3B2, HSD3B3, STEAP4, CYP2B9, AKR1C6, CYP7A1, CYP3A41A, NQO1, BDH1, NQO2, CYP3A44, CYP2G1, PTGR1, CYP3A16, CYP2B13, AKR1C20, ALDH1B1, HAO2, DIO1, AKR1D1, BCO2	1.29E-12	1.94E-09
GO:0055114 oxidation reduction	12	CYP4A14, FMO3, CYP4A10, CYP2B10, CYP4A12A, NOX4, PPARGC1A, CYP39A1, RETSAT, FMO2, CYP26A1, CYP2J9	-21		4.73E-08	7.10E-05
GO:0001817 regulation of cytokine production	3	INHBB, CD28, IL10	-10	STAT5A, TLR1, TLR2, TLR4, RAET1A, CD83, IRF1, IL1B, LTB, SASH3	2.89E-06	0.004325
GO:0051251 positive regulation of lymphocyte activation	2	CDKN1A, CD28	-9	CD83, STAT5A, H2-AA, TLR4, IL15, H2-DMA, CD74, SASH3, RAET1A,	3.02E-06	0.004521
GO:0051249 regulation of lymphocyte activation	3	CDKN1A, CD28, IL10	-10	LST1, STAT5A, TLR4, IL15, CD74, RAET1A, CD83, H2-AA, H2-DMA, SASH3	4.18E-06	0.006255
GO:0002696 positive regulation of leukocyte activation	2	CDKN1A, CD28	-9	CD83, STAT5A, H2-AA, TLR4, IL15, H2-DMA, CD74, SASH3, RAET1A	4.85E-06	0.007246
GO:0050867 positive regulation of cell activation	2	CDKN1A, CD28	-9	CD83, STAT5A, H2-AA, TLR4, IL15, H2-DMA, CD74, SASH3, RAET1A	5.81E-06	0.008679
GO:0002694 regulation of leukocyte activation	3	CDKN1A, CD28, IL10	-10	LST1, STAT5A, TLR4, IL15, CD74, RAET1A, CD83, H2-AA, H2-DMA, SASH3	8.37E-06	0.01248
GO:0050865 regulation of cell activation	3	CDKN1A, CD28, IL10	-10	LST1, STAT5A, TLR4, IL15, CD74, RAET1A, CD83, H2-AA, H2-DMA, SASH3	9.55E-06	0.014228