

Table S3 NOMID IPA.xls

Ingenuity Pathways Analysis (IPA): Canonical pathways

			LS vs Normal UP	LS vs Normal DOWN	pre-NL vs Normal UP	PRE-NL vs Normal DOWN	post-NL vs Normal UP	post-NL vs Normal DOWN	TOTAL # GENES IN PATHWAY
A. INITIAL ANALYSIS BY DEGs in LS versus Normal "UP"									
Acute Phase Response Signaling			13 (8)	44 (27)	1 (0.6)	18 (11)		6 (4)	164
Amyloid Processing			6 (11)	16 (29)		6 (11)			56
IL-17 Signaling			7 (9)	22 (30)		8 (11)			74
IL-6 Signaling			8 (9)	25 (28)		9 (10)		3 (3)	90
Ovarian Cancer Signaling			11 (11)	31 (30)		9 (9)			102
Role of NANOG in Mammalian Embryonic Stem Cell Pluripotency			11 (11)	27 (27)		12 (12)			100
Role of Osteoblasts, Osteoclasts and Chondrocytes in Rheumatoid Arthritis			18 (10)	48 (26)		22 (12)		6 (3)	188
Wnt/β-catenin Signaling			15 (11)	39 (28)		11 (8)		5 (4)	140
Role of Macrophages, Fibroblasts and Endothelial Cells in Rheumatoid Arthritis			24 (14)	63 (37)	1 (0.6)	29 (17)			171
B. INITIAL ANALYSIS BY DEGs LS vs pre-NL "DOWN"									
	LS vs pre-NL DOWN	LS vs pre-NL UP	LS vs Normal UP	LS vs Normal DOWN	pre-NL vs Normal UP	PRE-NL vs Normal DOWN	post-NL vs Normal UP	post-NL vs Normal DOWN	TOTAL # GENES IN PATHWAY
Cleavage and Polyadenylation of Pre-mRNA	5 (42)			9 (75)		2 (17)			12
Mechanisms of Viral Exit from Host Cells	13 (29.5)		4 (9)	16 (36)		5 (11)			44
EGF Signaling	14 (29)		21 (43)		8 (16)				49
Oxidative Phosphorylation	44 (26.7)		69 (42)	1 (0.6)			9 (5)		166
DNA Methylation and Transcriptional Repression Signaling	6 (26)		11 (48)						23
NRF2-mediated Oxidative Stress Response	44 (24)		73 (40)		23 (13)				183
Protein Ubiquitination Pathway	48 (24)		92 (46)		33 (16)		13 (7)		201
Mitochondrial Dysfunction	41 (23.7)		59 (35)						171
Clathrin-mediated Endocytosis Signaling	39 (23.4)		58 (35)		20 (12)				167
CNTF Signaling	12 (23)		19 (37)		7 (14)				52
VEGF Signaling	22 (23)		36 (37)		12 (12)				97
EIF2 Signaling	22 (22)		44 (44)		16 (16)				100
FAK Signaling	22 (22)		33 (34)		10 (10)				98
RAN Signaling	5 (22)		10 (44)		3 (13)				23
IL-9 Signaling	8 (22)		2 (5)	9 (24)	1 (3)	3 (8)			37
IGF-1 Signaling	21 (21)		5 (5)	35 (35)		15 (15)			100
GM-CSF Signaling	14 (21)	1 (1.5)	4 (6)	24 (36)		9 (13)			67
Docosahexaenoic Acid (DHA) Signaling	10 (21)	1 (2)		15 (31)		6 (12.5)			48
IL-3 Signaling	15 (21)		4 (6)	23 (32)	1(1)	9 (12.5)			72
IL-2 Signaling	12 (21)		3 (5)	20 (35)		8 (14)			58
JAK/Stat Signaling	13 (20)			22 (34)		8 (12.5)			64
Virus Entry via Endocytic Pathways	19 (20)			31 (32)		12 (12.5)			96
PDGF Signaling	15 (20)			27 (36)		11 (15)			76
TR/RXR Activation	19 (20)			27 (28)	2 (2)	11 (11)	1 (1)		97