

UPREGULATED GENES (p < 0.01)		
GO Level 5 Categories		
Term	P-value	FDR (%)
response to unfolded protein	1.60E-12	0
cellular protein metabolism	1.70E-04	0.3
intracellular protein transport	9.70E-03	14.1
coenzyme metabolism	1.10E-02	15.3
nitric oxide biosynthesis	2.10E-02	28.5
regulation of retroviral genome replication	4.00E-02	46.9
cofactor biosynthesis	4.00E-02	47
negative regulation of programmed cell death	4.40E-02	50.6
regulation of apoptosis	4.50E-02	51.1
intracellular transport	4.50E-02	51.6
regulation of programmed cell death	4.60E-02	52.2
establishment of cellular localization	5.00E-02	54.9
regulation of cell size	5.20E-02	56.7
cell growth	5.20E-02	56.7
protein transport	5.90E-02	61.6
cation homeostasis	6.30E-02	64
positive chemotaxis	6.50E-02	65.2
neutrophil activation	6.50E-02	65.2
apoptosis	6.60E-02	65.8
protein import	7.40E-02	70.1
regulation of chemotaxis	7.80E-02	71.8
regulation of nitric oxide biosynthesis	9.00E-02	77.2
BioCarta Pathways		
Term	P-value	FDR (%)
Hypoxia and p53 in the Cardiovascular system	9.70E-03	12.3
Free Radical Induced Apoptosis	2.30E-02	26.4
Oxidative Stress Induced Gene Expression Via Nrf2	5.40E-02	52.4
Skeletal muscle hypertrophy is regulated via AKT/mTOR pathway	5.90E-02	55.8
Proepithelin Conversion to Epithelin and Wound Repair Control	9.60E-02	74.4
DOWNREGULATED GENES (p < 0.01)		
GO Level 5 Categories		
Term	P-Value	FDR (%)
transcription	9.90E-04	1.5
positive regulation of small GTPase mediated signal transduction	2.20E-03	3.3
regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolism	2.40E-03	3.7
negative regulation of progression through cell cycle	1.10E-02	16.2

protein kinase cascade	2.20E-02	29.6
regulation of I-kappaB kinase/NF-kappaB cascade	2.50E-02	32.5
base-excision repair	5.10E-02	55.7
regulation of small GTPase mediated signal transduction	5.60E-02	59.2
response to virus	6.10E-02	62.4
protein complex assembly	6.60E-02	65.8
positive regulation of I-kappaB kinase/NF-kappaB cascade	6.80E-02	66.7
nucleocytoplasmic transport	7.10E-02	68.2
positive regulation of caspase activity	7.70E-02	71.4
protein biosynthesis	8.20E-02	74
antigen presentation, endogenous antigen	9.40E-02	78.8
BioCarta Pathways		
Term	P-Value	FDR (%)
IL22 Soluble Receptor Signaling Pathway	6.70E-03	13.6
Ras-Independent pathway in NK cell-mediated cytotoxicity	1.80E-02	24