INGENUITY
PATHWAY ANALYSIS

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Experiment Metadata

Name	Value

Analysis Settings

Top Canonical Pathways

Top Upstream Regulators

Top Diseases and Bio Functions

Diseases and Disorders

Name	p-value range	# Molecules
Organismal Injury and Abnormalities	4.71E-02 - 6.20E-21	54
Reproductive System Disease	2.77E-02 - 6.20E-21	38
Psychological Disorders	1.57E-02 - 1.89E-17	26
Neurological Disease	3.01E-02 - 4.09E-17	31
Cancer	4.63E-02 - 4.70E-16	45

Molecular and Cellular Functions

Name	p-value range	# Molecules
Cellular Development	4.51E-02 - 3.67E-07	36
Cellular Growth and Proliferation	4.51E-02 - 3.67E-07	31
Cell Cycle	4.61E-02 - 3.78E-07	12
Cellular Movement	4.61E-02 - 1.86E-05	20
Cell Death and Survival	4.24E-02 - 3.15E-04	18

Physiological System Development and Function

Name	p-value range	# Molecules
Embryonic Development	4.61E-02 - 3.78E-07	10
Digestive System Development and Function	5.22E-07 - 5.22E-07	5
Hepatic System Development and Function	5.22E-07 - 5.22E-07	5
Organ Development	4.51E-02 - 5.22E-07	7
Connective Tissue Development and Function	3.81E-02 - 3.30E-06	12

Top Tox Functions

Cardiotoxicity

Name	p-value range	# Molecules
Cardiac Dilation	3.49E-06 - 3.49E-06	9
Cardiac Enlargement	1.61E-01 - 3.49E-06	10
Cardiac Regeneration	3.81E-02 - 3.81E-02	1
Cardiac Proliferation	4.51E-02 - 4.35E-02	2
Congenital Heart Anomaly	7.74E-02 - 7.74E-02	1

Hepatotoxicity

Name	p-value range	# Molecules
Liver Inflammation/Hepatitis	5.22E-07 - 5.22E-07	5
Liver Cirrhosis	7.07E-04 - 5.99E-05	7
Liver Fibrosis	1.51E-01 - 7.07E-04	5
Liver Steatosis	7.64E-03 - 7.64E-03	3
Liver Hyperplasia/Hyperproliferation	4.11E-01 - 8.29E-03	21

Nephrotoxicity

Name	p-value range	# Molecules
Glomerular Injury	9.79E-13 - 9.79E-13	10
Renal Inflammation	9.79E-13 - 9.79E-13	10
Renal Nephritis	9.79E-13 - 9.79E-13	10
Renal Necrosis/Cell Death	5.69E-01 - 2.19E-01	2

Top Regulator Effect Networks

Top Networks

ID	Associated Network Functions	Score
1	Organismal Injury and Abnormalities, Reproductive System Disease, Psychological Disorders	26
2	Connective Tissue Disorders, Inflammatory Disease, Organismal Injury and Abnormalities	26
3	Cell Cycle, Embryonic Development, Cellular Development	20
4	Skeletal and Muscular System Development and Function, Tissue Morphology, Inflammatory Disease	20

5		Neurological Disease, Organismal Injury and Abnormalities, Psychological Disorders	18

Top Tox Lists

Name	p-value	Overlap
Renal Ischemia-Reperfusion Injury MicroRNA Biomarker Panel (Mouse)	2.20E-02	12.5 % 1/8
Decreases Transmembrane Potential of Mitochondria and Mitochondrial Membrane	3.08E-01	0.8 % 1/132

Top My Lists

Top My Pathways

Top Analysis-Ready Molecules