Top canonical pathways

WKY 5 months vs 6 weeks

Name	p-value	ratio
Hepatic Fibrosis / Hepatic Stellate Cell Activation	1.63E-13	36/197 (0.183)
Atherosclerosis Signaling	7.81E-11	25/123 (0.203)
Intrinsic Prothrombin Activation Pathway	1.53E-08	11/29 (0.379)
Granulocyte Adhesion and Diapedesis	1.77E-07	25/177 (0.141)
Mitotic Roles of Polo-Like Kinase	6.65E-07	14/66 (0.212)

SHR 5 months vs 6 weeks

Name	p-value	ratio
Hepatic Fibrosis / Hepatic Stellate Cell Activation	3.42E-13	41/197 (0.208)
Atherosclerosis Signaling	4.09E-11	29/123 (0.236)
Granulocyte Adhesion and Diapedesis	2.58E-07	29/177 (0.164)
Glutathione-mediated Detoxification	1.77E-06	10/28 (0.357)
Triacylglycerol Biosynthesis	2.29E-06	11/35 (0.314)

Molecular and Cellular Functions

WKY 5 months vs 6 weeks

Name	p-value	# molecules
Cellular Growth and Proliferation	3.61E-22 - 2.72E-05	347
Cellular Movement	1.70E-18 - 2.68E-05	240
Cell Cycle	7.58E-17 - 2.27E-05	152
Cell Morphology	6.43E-16 - 2.47E-05	228
Cell Death and Survival	1.48E-15 - 1.55E-05	302

SHR 5 months vs 6 weeks

Name	p-value	# molecules
Cellular Movement	5.04E-35 - 2.09E-07	321
Cellular Growth and Proliferation	7.05E-30 - 1.51E-07	459
Cell Morphology	9.52E-29 - 1.88E-07	348
Lipid Metabolism	1.23E-23 - 1.95E-07	231
Small Molecule Biochemistry	1.23E-23 - 2.02E-07	300

Top Networks

WKY 5 months vs 6 weeks

Associated Network Functions	score
Cell Cycle, Cellular Assembly and Organization, DNA Replication, Recombination, and Repair	37
Cell Cycle, Cellular Assembly and Organization, DNA Replication, Recombination, and Repair	35
Tissue Development, Cancer, Cell-To-Cell Signaling and Interaction	33
Connective Tissue Disorders, Inflammatory Disease, Neurological Disease	33
Connective Tissue Disorders, Dermatological Diseases and Conditions, Organismal Injury and Abnormalities	31

SHR 5 months vs 6 weeks

Associated Network Functions	score
Carbohydrate Metabolism, Drug Metabolism, Molecular Transport	41
Cell Cycle, Cellular Assembly and Organization, DNA Replication, Recombination, and Repair	34
Molecular Transport, Visual System Development and Function, Cardiac Arrythmia	32
Cell-To-Cell Signaling and Interaction, Cell Signaling, Cardiovascular System Development and Function	32
Organ Morphology, Organismal Development, Reproductive System Development and Function	30

Physiological system development and function

WKY 5 months vs 6 weeks

Name	p-value	# Molecules
Organismal Survival	1.21E-16 - 1.55E-04	144
Cardiovascular System Development and Function	1.59E-15 - 2.51E-05	159
Organismal Development	1.59E-15 - 2.51E-05	244
Tissue Development	1.32E-14 - 2.72E-05	291
Tissue Morphology	2.01E-14 - 2.14E-05	227

SHR 5 months vs 6 weeks

Name	p-value	# Molecules
Cardiovascular System Development and Function	1.34E-34 - 2.08E-07	285
Organismal Development	1.34E-34 - 1.51E-07	417
Tissue Morphology	7.91E-26 - 1.88E-07	344
Organismal Survival	4.09E-24 - 6.67E-08	323
Immune Cell Trafficking	1.08E-22 - 2.10E-07	191