

Supplemental Data 7. Top bio functions and top canonical pathways appeared in TH/SH Unique genes of liver and lung tissues

A. Liver

Top Bio Functions ¹	p-value	# Molecules ²
Disease and Disorders		
Cancer	6.03E-05 – 3.62E-02	14
Inflammatory Response	6.80E-05 – 4.43E-02	15
Inflammatory Disease	2.23E-03 – 4.27E-02	9
Molecular and Cellular Functions		
Cell Death	9.74E-05 – 4.86E-02	20
Cell Morphology	1.73E-04 – 4.69E-02	8
Cellular Development	1.73E-04 – 4.86E-02	18
Physiological System Development and Function		
Tissue Development	3.24E-04 – 4.12E-02	10
Connective Tissue Development and Function	5.07E-04 – 3.43E-02	7
Hematological System Development and Function	1.57E-03 – 4.86E-02	19
Top Canonical Pathways ³	p-value	Ratio ⁴
Acute Phase Response Signaling	6.97E-05	6/164 (0.037)
Cell Cycle G2/M DNA Damage Checkpoint Regulation	8.57E-04	3/45 (0.067)
Integrin-Linked Kinase Signaling	9.26E-04	5/174 (0.029)
Complement System	6.55E-03	2/29 (0.069)
Actin Cytoskeleton Signaling	1.22E-02	4/219 (0.018)

B. Lung

Top Bio Functions ¹	p-value	# Molecules ²
Disease and Disorders		
Development Disorder	2.87E-05 – 1.07E-02	4
Genetic Disorder	2.87E-05 – 3.71E-02	10
Metabolic Disease	2.87E-05 – 5.38E-03	3
Cancer	5.24E-04 – 4.74E-02	15
Respiratory Disease	5.24E-04 – 4.23E-02	6
Molecular and Cellular Functions		
Cell-To-Cell Signaling and Interaction	2.73E-05 – 4.74E-02	13
Cellular Movement	2.73E-05 – 4.79E-02	17
Cell Death	3.93E-04 – 4.74E-02	22
Cellular Development	7.35E-04 – 4.74E-02	10
Cellular Assembly and Organization	7.86E-04 – 4.79E-02	17
Physiological System Development and Function		
Hematological System Development and Function	2.73E-05 – 4.74E-02	24
Immune Cell Trafficking	2.73E-05 – 4.74E-02	17
Hematopoiesis	7.35E-04 – 3.71E-02	16
Nervous System Development and Function	7.86E-04 – 4.36E-02	15
Tissue Development	1.49E-04 – 4.74E-02	24
Top Canonical Pathways ³	p-value	Ratio ⁴
Mitotic Roles of Polo-Like Kinase	2.52E-04	4/65 (0.062)
Hepatic Fibrosis / Hepatic Stellate Cell Activation	7.15E-04	5/147 (0.034)
Cell Cycle Control of Chromosomal Replication	8.57E-03	2/31 (0.065)
Glucocorticoid Receptor Signaling	9.33E-03	5/295 (0.017)
Protein Ubiquitination Pathway	9.82E-03	5/274 (0.018)