

Supplementary Information for

Psoriasis Associated Hub Genes Revealed by Weighted Gene Co-Expression Network Analysis

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Table S1: Results of the gene enrichment analysis

Term	FDR**	P value*	Percentage
Biological process (BP)			
Nitrobenzene metabolic process	0.02	0.01	5.26
Xenobiotic catabolic process	0.04	0.01	5.26
Glutathione derivative biosynthetic process	0.29	0.01	5.26
Digestive tract development	0.43	0.01	5.26
Inflammatory response	0.43	0.01	10.52
Chemotaxis	0.43	0.01	7.01
Cellular detoxification of nitrogen compound	0.56	0.01	3.51
Regulation of activated T cell proliferation	0.60	0.01	3.51
Glutathione metabolic process	0.60	0.01	5.26
Somatic stem cell population maintenance	0.69	0.02	5.26
Proteolysis	0.69	0.02	10.52
Negative regulation of cell proliferation	1.00	0.03	8.77
Phosphatidylinositol phosphorylation	1.00	0.03	5.26
G-protein coupled purinergic nucleotide receptor signaling pathway	1.00	0.04	3.51
Positive regulation of angiogenesis	1.00	0.05	5.26
Neuron fate commitment	1.00	0.05	3.51

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Table S1: Continued

Term	FDR**	P value*	Percentage
Embryonic placenta development	1.00	0.06	3.51
Positive regulation of cytosolic calcium ion concentration	1.00	0.06	5.26
Peptidyl-tyrosine phosphorylation	1.00	0.08	5.26
Immune system process	1.00	0.08	3.51
Metabolic process	1.00	0.09	5.26
Bone mineralization	1.00	0.10	3.51
Positive regulation of ERK1 and ERK2 cascade	1.00	0.10	5.26
Kyoto Encyclopedia of Genes and Genomes (KEGG)			
Glutathione metabolism	0.52	0.02	5.26
Drug metabolism - cytochrome P450	0.52	0.03	5.26
Metabolism of xenobiotics by cytochrome P450	0.52	0.03	5.26
Chemical carcinogenesis	0.52	0.04	5.26
Hematopoietic cell lineage	0.52	0.05	5.26
Molecular function (MF)			
Glutathione binding	0.05	0.01	5.26
Glutathione transferase activity	0.31	0.01	5.26
Phosphatidylinositol-4,5-bisphosphate 3-kinase	0.61	0.01	5.26
Protein homodimerization activity	0.64	0.02	12.28
G-protein coupled purinergic nucleotide receptor activity	0.96	0.04	3.51
Ras guanyl-nucleotide exchange factor activity	0.96	0.05	5.26
Protein tyrosine kinase activity	1.00	0.06	5.26
Cellular component (CC)			
Integral component of plasma membrane	1.00	0.05	15.78
Integral component of membrane	1.00	0.07	36.84
Extracellular space	1.00	0.09	14.03

*; P value resulted from chi-square independent test and **; False discovery rate.