

Comprehensive analysis of long non-coding RNA-mRNA co-expression patterns in thyroid cancer

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Supplementary Table 4: KEGG pathway analysis for 452 mRNAs

path_name	enrichment	pvalue	FDR
Cell adhesion molecules (CAMs)	11.89205552	1.28788E-11	2.25379E-09
ECM-receptor interaction	13.30452188	1.82453E-08	1.59646E-06
Viral myocarditis	14.07762248	6.57514E-08	3.8355E-06
Focal adhesion	7.304570023	1.42597E-07	6.23861E-06
Antigen processing and presentation	11.29261857	2.35497E-06	8.24238E-05
Allograft rejection	16.93892786	5.5686E-06	0.000162418
Graft-versus-host disease	15.43324538	9.79788E-06	0.000244947
Type I diabetes mellitus	14.77651154	1.27299E-05	0.000278466
Transcriptional misregulation in cancer	6.430518909	1.71075E-05	0.000332645
Autoimmune thyroid disease	12.40171504	3.60548E-05	0.00063096
Phagosome	6.593316856	4.22317E-05	0.000671868
Protein digestion and absorption	9.207333893	4.73314E-05	0.00069025
HTLV-I infection	4.750905761	0.000100183	0.001348617
Leukocyte transendothelial migration	6.866486293	0.000315085	0.003938567
Hematopoietic cell lineage	7.89200048	0.000477219	0.005567558
PI3K-Akt signaling pathway	3.669287447	0.000986766	0.010257207
Herpes simplex infection	4.925503846	0.000996414	0.010257207
p53 signaling pathway	8.51098091	0.001250733	0.012159905
Complement and coagulation cascades	8.38763336	0.001338983	0.012332739
Amoebiasis	6.371523323	0.00153239	0.013408409
Viral carcinogenesis	4.473404459	0.001895761	0.015798007
Neuroactive ligand-receptor interaction	3.78816023	0.002839507	0.022586991
Cell cycle	5.600774534	0.003033313	0.023079555
Amino sugar and nucleotide sugar metabolism	9.448925744	0.003419199	0.024226104
Proteoglycans in cancer	4.079271907	0.003460872	0.024226104
Axon guidance	5.301496505	0.004037042	0.027172396
GABAergic synapse	6.430518909	0.004517887	0.029282599
Morphine addiction	6.223082816	0.005231377	0.032696107
Staphylococcus aureus infection	7.847412906	0.006864094	0.041421256
Pathways in cancer	3.185761662	0.009352643	0.054557085
Asthma	10.21317709	0.012554493	0.070872136
Arrhythmogenic right ventricular cardiomyopathy (ARVC)	6.173298153	0.016456814	0.0899982
Toxoplasmosis	4.743825425	0.017040088	0.090364105
Calcium signaling pathway	3.79506034	0.021388541	0.109763755
Tuberculosis	3.774435012	0.021952751	0.109763755
Small cell lung cancer	5.38369025	0.026705502	0.129818411
Natural killer cell mediated cytotoxicity	4.133905013	0.030248067	0.143065183
Epstein-Barr virus infection	3.404392364	0.035663228	0.163111337
Rheumatoid arthritis	4.925503846	0.036350526	0.163111337
Intestinal immune network for IgA production	6.808784728	0.039225621	0.171612091
Metabolic pathways	1.849653042	0.04048577	0.172805116
Regulation of actin cytoskeleton	3.23021415	0.045384567	0.186573718
Non-small cell lung cancer	6.430518909	0.045843828	0.186573718

Pathogenic Escherichia coli infection	6.313600384	0.048183776	0.19164002
Retrograde endocannabinoid signaling	4.495120014	0.049629294	0.193002809
Mineral absorption	36.86470588	0.000306759	0.021473106
Arrhythmogenic right ventricular cardiomyopathy (ARVC)	25.068	0.000967769	0.032655287
Hypertrophic cardiomyopathy (HCM)	22.11882353	0.001399512	0.032655287
Nicotinate and nicotinamide metabolism	44.76428571	0.003694321	0.06465062
Transcriptional misregulation in cancer	10.445	0.012156889	0.170196439
Retinol metabolism	18.43235294	0.0213662	0.203315802
Complement and coagulation cascades	18.16521739	0.021981428	0.203315802
Adipocytokine signaling pathway	17.65352113	0.023236092	0.203315802
TGF-beta signaling pathway	15.47407407	0.029986706	0.233229933
Dilated cardiomyopathy	13.77362637	0.037513698	0.242744456
Vitamin B6 metabolism	104.45	0.038145557	0.242744456
Metabolic pathways	3.162489487	0.047123523	0.274887216
