

Pathways	Count	P-value
Pathways in cancer	34	0.128993029
Spliceosome	30	2.15E-07
Cell Cycle	25	6.33E-05
MAPK signaling pathway	23	0.534279185
Purine metabolism	20	0.045141202
Lysosome	17	0.029382066
Ubiquitin mediated proteolysis	16	0.155492378
Wnt signaling pathway	16	0.260251872
Oocyte meiosis	15	0.066272587
Focal adhesion	15	0.785133927
Regulation of actin cytoskeleton	15	0.858864907
Glycolysis / Gluconeogenesis	14	9.55E-04
Antigen processing and presentation	13	0.037957548
Neurotrophin signaling pathway	13	0.322854344
Insulin signaling pathway	13	0.436160431
Cytokine-cytokine receptor interaction	13	0.993685858
Colorectal cancer	12	0.08222436
Apoptosis	12	0.099742861
Pyrimidine metabolism	12	0.156356087
Endocytosis	12	0.90335901
Renal cell carcinoma	11	0.059176675
Natural killer cell mediated cytotoxicity	11	0.66712723
Aminoacyl-tRNA biosynthesis	10	0.005207646
p53 signaling pathway	10	0.103905313
Small cell lung cancer	10	0.253266783
Toll-like receptor signaling pathway	10	0.454576747
Amyotrophic lateral sclerosis (ALS)	9	0.066401651
Axon guidance	9	0.845945896
Chemokine signaling pathway	9	0.989661573
Cysteine and methionine metabolism	8	0.018729259
Prion diseases	8	0.02180719
Pyruvate metabolism	8	0.042473007
RNA degradation	8	0.186022611
Adherens junction	8	0.451539961
Cardiac muscle contraction	8	0.465288019
TGF-beta signaling pathway	8	0.583878161
Fc gamma R-mediated phagocytosis	8	0.677384723
Pentose phosphate pathway	7	0.013859841
Proteasome	7	0.186889242
Glutathione metabolism	7	0.226784813
Pathogenic Escherichia coli infection	7	0.328172135
NOD-like receptor signaling pathway	7	0.403873607
Epithelial cell signaling in Helicobacter pylori infection	7	0.493687656
Phosphatidylinositol signaling system	7	0.578577935
VEGF signaling pathway	7	0.59203133
Systemic lupus erythematosus	7	0.836973122
Melanogenesis	7	0.836973122
Leukocyte transendothelial migration	7	0.932455598
Tight junction	7	0.970367173
Base excision repair	6	0.156973199
Sphingolipid metabolism	6	0.214898306
mTOR signaling pathway	6	0.429131612
Arginine and proline metabolism	6	0.445799185
Vibrio cholerae infection	6	0.49497103
Fc epsilon RI signaling pathway	6	0.782126807
Progesterone-mediated oocyte maturation	6	0.848494797
GnRH signaling pathway	6	0.91604753
Cell adhesion molecules (CAMs)	6	0.987452597
Jak-STAT signaling pathway	6	0.996989747

One carbon pool by folate	5	0.037298433
Thyroid cancer	5	0.212933078
Citrate cycle (TCA cycle)	5	0.249363971
Fructose and mannose metabolism	5	0.306106137
SNARE interactions in vesicular transport	5	0.383325467
Aldosterone-regulated sodium reabsorption	5	0.440699836
Drug metabolism	5	0.478082153
Glycerolipid metabolism	5	0.514465272
Cytosolic DNA-sensing pathway	5	0.675442553
PPAR signaling pathway	5	0.832171722
Gap junction	5	0.943265429
Dilated cardiomyopathy	5	0.952327629
Calcium signaling pathway	5	0.999823815
Homologous recombination	4	0.409463912
RNA polymerase	4	0.409463912
Amino sugar and nucleotide sugar metabolism	4	0.715168571
Intestinal immune network for IgA production	4	0.781231369
Inositol phosphate metabolism	4	0.834143911
Hedgehog signaling pathway	4	0.852015312
Acute myeloid leukemia	4	0.868187298
Adipocytokine signaling pathway	4	0.923173192
Glycerophospholipid metabolism	4	0.927772202
Viral myocarditis	4	0.940096025
ECM-receptor interaction	4	0.974136255
Hypertrophic cardiomyopathy (HCM)	4	0.975796891
Ribosome	4	0.978819489
Vascular smooth muscle contraction	4	0.99625566
Protein export	3	0.136207808
Folate biosynthesis	3	0.228027952
Glycosphingolipid biosynthesis	3	0.353961691
Other glycan degradation	3	0.3845696
Histidine metabolism	3	0.703156443
Alanine, aspartate and glutamate metabolism	3	0.737776543
Ether lipid metabolism	3	0.79675566
Primary immunodeficiency	3	0.79675566
Basal transcription factors	3	0.79675566
Starch and sucrose metabolism	3	0.872206597
Notch signaling pathway	3	0.909305643
Metabolism of xenobiotics by cytochrome P450	3	0.964061078
Long-term potentiation	3	0.980053388
Long-term depression	3	0.981484305
RIG-I-like receptor signaling pathway	3	0.984053805
Arrhythmogenic right ventricular cardiomyopathy (ARVC)	3	0.989055096