

young-old all DEGs

Category	Term	Count	p-value	Genes
BP	GO:0033993~response to lipid	10	9.12E-4	ANXA3, LOX, GJA1, ITGA2, SPP1, CD274, SRR, PDE4B, KMO, SELP
BP	GO:0014070~response to organic cyclic compound	9	3.28E-4	ANXA3, LOX, IFIT1, GJA1, EZR, ITGA2, SPP1, SRR, PDE4B
BP	GO:0051098~regulation of binding	6	2.21-4	LOX, IFIT1, STMN1, PPP3CA, ITGA2, CCPG1
CC	GO:0044444~cytoplasmic part	48	1.21E-4	GNG11 , PURA , IFIT1, GOLGA8A ,AP1AR ,CAMSAP2, TRIM24, KBTBD7, PIGM, ITGA2, CD274 ,SPP1,SRR,HCFC2 ,RASSF9, FBXL3,FAH ,ITI4 KBTBD6, SLC25A37, CEP128, KMO , SELP, ST6GAL2, RNF125, TRIP11, ASPA, SHISA2 , STMN1, YIPF5, PPP3CA ,SLC1A6, EZR ,FERMT2,XIRP2 PPP2R2B, ANXA3, ST8SIA4, HPGDS, ZNF217, GJA1, CXADR, FPGT TRIM13 ,GART, CSRP2, TOPORS PDE4B
MF	GO:0008092~cytoskeletal protein binding	7	4.28E-4	GJA1, STMN1, CAMSAP2, EZR, FERMT2, CSRP2, PDE4B
MF	GO:0019904~protein domain specific binding	5	7.35E-4	GJA1, MLF1, CXADR, EZR, SRR
MF	GO:0008092~disordered specific domain binding	2	9.58E-4	GJA1, EZR
BP	GO:0014070~response to organic cyclic compound	9	3.28E-4	ANXA3, LOX, IFIT1, GJA1, EZR, ITGA2, SPP1, SRR, PDE4B
BP	GO:0010769~ regulation of cell morphogenesis involved in differentiation	9	4.77E-4	TRIOBP ,PDLIM5, VEGFA, AP1AR, P4HB, ZEB2, PTK2, SPP1, TUBB2B
CC	GO:0070062~extracellular exosome	9	7.11E-4	HBA2, ITGA4, TPM4, SDF4, TOM1, PP2R1B, DNAJB9, SPP1, RHOJ
CC	GO:0044446~intracellular organelle part	30	2.79E-4	TMP4, CASZ1, STAT1, MRPL50, IFT27, DNAJB9, CYP3A5, SLC16A3, SPP1,HBA2,SDF4, SHANK2, WDR63, OAS1, ABCD3, RNF125, SLC37A4, RAD18, TOM1, AAGAB1, DNAJB12, SPACA3, E2F1, TUBB2B, ARGHAP32, GJA1, SDC3, SPIRE2, MS4A3, GJC1
CC	GO:0043233~organelle lumen	6	8.24E-4	HBA2, SDF4, SDC3, ABCD3, DNAJB9, SPP1
MF	GO:0003924~GTPase activity	4	6.07-4	RASEF, IFT27, RHOJ, TUBB2B
KEGG	hsa00350:Tyrosine metabolism	2	9.2E-2	FAH, COMT
KEGG	hsa00603:Glycosphingolipid biosynthesis - globo series	2	0.38E-2	FUT, GLA

young-middle up DEGs

Note. BP: biological process; CC: cell component; GO: gene ontology; KEGG: Kyoto Encyclopedia of Genes and Genomes; MF: molecular function (as ranked by the p-value)