Old vs Young, sCs В GO/Pathways enrichment spindle assembly checkpoint signaling sister chromatid segregation organelle fission nuclear division nuclear chromosome segregation -GO:BP mitotic spindle checkpoint signaling mitotic spindle assembly checkpoint signaling mitotic sister chromatid segregation mitotic nuclear division mitotic cell cycle process mitotic cell cycle chromosome segregation cell division spindle pole spindle protein-DNA complex nucleosome nuclear chromosome GO:CC midbody kinetochore -DNA packaging complex condensed chromosome, centromeric region -**FDR** enriched_terms chromosome, centromeric region -0.04 chromosomal region chromatin -0.03 transition metal ion transmembrane transporter ... -0.02 transferrin receptor activity retreived genes in transaminase activity detailed pages 0.01 syndecan binding selenium binding -GO:MF protein heterodimerization activity phosphopyruvate hydratase activity -O-phospho-L-serine:2-oxoglutarate aminotransfer... microtubule binding iron ion transmembrane transporter activity glutathione peroxidase activity extracellular matrix structural constituent calcium- and calmodulin-responsive adenylate cy... -Regulation of APC/C activators between G1/S and... Recognition and association of DNA glycosylase ... PRC2 methylates histories and DNA -M Phase Epigenetic regulation of gene expression -REAC DNA Damage/Telomere Stress Induced Senescence -Depurination -Condensation of Prophase Chromosomes Cleavage of the damaged purine Cell Cycle, Mitotic -Cell Cycle Checkpoints -Cell Cycle Ŧ Factor: E2A; motif: NRMCASCTGCNNN; match class: 1 -20 10 30 40 Count

sCs Old vs Young, pathway enrichment significance (FDR) abslfc >= 1.5 p<= 5e-04 n= 276