Supplemental table 3: List of genes regulated by aging, classified by biological functions

A- Anterior Pituitary

Category	# of genes	P value	*Genes*
Cell Death	186	1,84E-04-2,32E-02	*Ier3,Gstm5,Rassf6,Clns1a,Ascl1,Ptprk,Cdc42bpa,Gstp1,Calcr,Prkcz,Tradd,Bcap29,Ace, Cdhr1,Camk1g,Igf2,Cdkn1c,Adamtsl4,Pmp22,Fcgr2a,Itsn1,Ccl11,Apbb1,Plscr3,Spp, Ctnnbl1,Nol3,Alox15,Soat1,Igbp1,Adipoq,Pcsk2,Atrx,Exoc2,Chka,Rtn,Cadm1,Lgals3bp, Ehd4,Rgs5,Grb10,Id3,Htra1,Zyx,Inpp1,Fgl2,Meis1,Ryr2,Stmn1,Gpc3,Plat,Sqstm1,Sh3bgrl3, L1cam,Stxbp1,Blcap,Lyz1/Lyz2,Hes1,Snca,Grik2,Gabrg2,Dpp3,Ephx1,Igfbp7,Tnfsf12,Cdkn2c,Xrc c5,Vtn,F2r,Abcc3,Tpp1,Cd82,Slit2,Epor,Camk2b,Gfra3,Ccnd1,Gsdma,Dad1,Snn,Prdm2, Atp6ap2,Jun,Ddx19a,Gria4,Ctbp2,Cdcp1,Capn1,Ap2a2,Ddx41,Gpx2,Pdyn,Reg3g,Kitlg,Sh3kbp1, Aldh1a2,Tubb3,Lgals1,Traf3ip2,Sstr3,Ccnd2,Pnpt1,Klk1,Cables1,Htatip2,Cast,Pcgf2,Six1,Gabrd, Glrx,Fos,Pcna,Krt18,Prkcq,Cebpd,Cadps2,Ddx20,Nckap1l,Vegfa,Hspb8,Map2k6, Ccl13,Mtmr1,Dgkb,C1qa,Gpx4,Nek7,Ndn,Ednra,Sox4,Aatk,Apoe,S100a6,Banf1,Gpm6a,Xdh, Tgfbi,Plcg2,Camk2n1,Aif1,Igfbp3,Copb2,Ivns1abp,Rab25,Mx1,Camk2d,Rps6ka1,Sstr2,Rasd1,Id2 ,Ctss,Vipr2,Dsp,Agtr1b,Igf1,St6gal1,Anxa4,Tspo,Tmem57,Map2k3,Dgka,Eef2k,Ptgr1, Abcc5,Epas1,Ptprz1,Rnd3,Aqp1,Cd74,Xpa,Hyou1,Ngb,Col2a1,Dlk1,Rab27a,Hbxip,Hla-Drb1,Amigo2,Timp2,Rgs10,Setd8, Sncb,Ntrk2,Atf5,Isg20,Atp5s*
Cellular Growth and Proliferation	127	1,93E-04-2,32E-02	*Ier3,Ctdspl,Ltbp4,Rem2,Ascl1,Calcr,Gstp1,Prkcz,Igf2,Cd151,Cdkn1c,Pmp22,Dgkz,Ptp4a3, Lepre1,Ccl11,Apbb1,Degs1,Spp1,Alox15,Igbp1,Adipoq,Chka,Cadm1,Grb10,Id3,Htra1,Zyx, Meis1,Stmn1,Gpc3,Plat,Coro1a,Gfm1,Col1a1,Gltscr2,Etv1,Hes1,Myl9,Flot1,Igfbp7, Tnfsf12,Agtrap,Cdkn2c,Xrcc5,Vtn,F2r,Cd82,Epor,Slit2,Smyd4,Scn5a,Ccnd1,Mllt6,Pold4, Jun,Cdcp1,Capn1,Rbbp9,Kitlg,Aldh1a2,Tubb3,Lgals1,Tusc2,Ccnd2,Pnpt1,Cables1,Cast,Six1,Pcg f2,Fos,C20orf191,Eif5a2,Ltbp3,Cebpd,Vegfa,Hspb8,Map2k6,Ccl13,Nubp1,Gpx4,Ndn, Ednra,Rtn4r,Apoe,Nfix,Ptpn3,Xdh,Bin3,Camk2n1,Aif1,Igfbp3,Ivns1abp,Mx1,Fshb,Rps6ka1, Sstr2,Id2,Rasd1,Ctss,Hopx,Dsp,Rbp4,Igf1,Map2k3,Dgka,Kcnk10,Eef2k,Igh2,Abcc5,Epas1, Aqp1,Tob1,Cd74,Xpa,Diaph1,Vldlr,Col2a1,Dlk1,Steap2,Prdx4,Gga2,Tfpi,Cirbp,Timp2,Atf5, Ntrk2*
Cellular Function and Maintenance	117	4,85E-04-2,27E-02	*Cdc42bpa,Prkcz,Igf2,Scnn1g,Cadps,Cd151,Dgkz,Fcgr2a,Itsn1,Ccl11,Plscr3,Nol3,Spp1, Alox15,Adipoq,Slc2a4,Exoc2,Dopey2,Id3,Ryr2,Stmn1,Coro1a,Sqstm1,Plat,Nefh,L1cam, Stxbp1,Klc1,Ttyh1,Snca,Grik2,Evl,Gabrg2,Krt25,Pex5l,Xrcc5,Vtn,F2r,Tpp1,Rab3c,Abcc3, Stmn2,Cd82,Epor,Slit2,Scn5a,Ccnd1,Tapbp,Capn1,Ap2a2,Rab3d,Atg9a,Mark1,Kitlg,Tesc, Tubb3,Lgals1,Cdk5rap2,Pcgf2,Cast,Tnr,Kctd13,Krt18,Prkcq,Cadps2,Nckap1l,Vegfa, Hspb8,Ccl13,Slc20a2,C1qa,Nubp1,Ndn,Nlgn3,Kcnj11,Rtn4r,Sox4,Apoe,Aatk,Cnih2,Xdh, Hla-Qa1,Gpm6a,Plcg2,Copb2,Rab2b,Camk2d,Aplp2,Id2,Ctss,Dsp,Rbp4,Igf1,Fcgrt,Gabra1,Dgka,Eef2 k,Trim54,Arsb,Epas1,Ptprz1,Rnd3,Aqp1,Lrrc23,Fam101b,Cd74,Diaph1,Slc16a1,Slc12a5,Rab27a, Plxna3,Steap2,Atl1,Cyth2,Exoc7,Ntrk2,Syne1*
Cellular Assembly and Organization	82	6,59E-04-2,47E-02	*Mark1,Kitlg,Tubb3,Ascl1,Cdc42bpa,Cdk5rap2,Cast,Prkcz,Tnr,Igf2,Cadps,Kctd13,Krt18, Prkcq,Pmp22,Fcgr2a,Cadps2,Ptp4a3,Lppr5,Nckap1l,Ccl11,Vegfa,Spp1,Gphn,Nol3,Adipoq,Ccl13, C1qa,Ndn,Nlgn3,Dopey2,Rtn4r,Ehd4,Aatk,Apoe,Gpm6a,Plcg2,Igfbp3,Copb2,Stmn1, Sqstm1,Coro1a,Plat,Nefh,L1cam,Ctss,Klc1,Ttyh1,Snca,Dsp,Igf1,Mtmr2,Evl,Krt25,Trim54, Amigo1,Vtn,Arsb,Epas1,F2r,Ptprz1,Tpp1,Stmn2,Rab3c,Rnd3,Aqp1,Cd82,Slit2,Fam101b,Cd74,Di aph1,Rab27a,Plxna3,Atl1,Gga2,Cyth2,Exoc7,Sncb,Ntrk2,Rab3d,Lrrc4c,Syne1*
Cellular Development	79	1,93E-04-2,47E-02	*Ier3,Kitlg,Tubb3,Aldh1a2,Lgals1,Rem2,Ascl1,Tusc2,Ccnd2,Pnpt1,Calcr,Six1,Cast,Prkcz, Ace,Igf2,Fos,Cd151,Cdkn1c,Cebpd,Dgkz,Pmp22,Fcgr2a,Ptp4a3,Cadps2,Ccl11,Vegfa,Degs1,Hsp b8,Spp1,Alox15,Map2k6,Ccl13,Adipoq,Lhb,Pcsk2,Chka,Fig4,Ndn,Cadm1,Apoe,Id3,Plcg2, Aif1,Igfbp3,Ivns1abp,Stmn1,Grb14,Plat,Sqstm1,Col1a1,L1cam,Rasd1,Id2,Hes1,Hopx,Igf1, Vwc2,Map2k3,Dgka,Tnfsf12,Trim54,Abcc5,F2r,Epor,Smyd4,Gfra3,Ccnd1,Mllt6,Vldlr, Tapbp,Pold4,Dlk1,Steap2,Jun,Tfpi,Cdcp1,Timp2,Ntrk2*
Cell-To-Cell Signaling and Interaction	76	3,75E-04-2,47E-02	*Kitlg,Mllt4,Lgals1,Ascl1,Ccnd2,Cast,Prkcz,Gabrd,Tnr,Ace,Fos,Igf2,Cd151,Cdkn1c,Bcan, Pmp22,Fcgr2a,Ptp4a3,Grk6,Ccl11,Vegfa,Gphn,Spp1,Alox15,Adipoq,Ccl13,Syn2,Nlgn3, Cadm1,Lgals3bp,Apoe,Vangl1,Cnih2,Id3,Gpm6a,Xdh,Cspg5,Igfbp3,Bsn,Serping1,Gpc3,Plat,Col1 a1,L1cam,Id2,Stxbp1,Hes1,Snca,Grik2,Agtr1b,Mtmr2,Igf1,St6gal1,Esm1,Nrxn1,Amigo3, Gabrg2,Kcnk10,Trim54,Agtrap,Vtn,Amigo1,F2r,Cd82,Slit2,Cd74,Ccnd1,Lamc2,Diaph1,Slc12a5,C ol2a1,Gria4,Cdcp1,Amigo2,Sncb,Ntrk2*
Cellular Movement	72	8,97E-04-2,41E-02	*Ier3,Kitlg,Lgals1,Hdlbp,C4b,Htatip2,Cast,Prkcz,Tnr,Igf2,Fos,Cd151,Prkcq,Bcan,Fcgr2a, Itsn1,Ptp4a3,Grk6,Nckap1l,Ccl11,Vegfa,Batf3,Spp1,Igbp1,Adipoq,Ccl13,Cfb,Ednra,Cadm1, Apoe,S100a6,Vangl1,Xdh,Nfix,Zyx,Igfbp3,Serping1,Stmn1,Mx1,Plat,Coro1a,Fshb,Col1a1, Aplp2,Sstr2,L1cam,Etv1,Id2,Ctss,Igf1,Esm1,Podxl2,Tnfsf12,Lmo4,Vtn,F2r,Epas1,Ptprz1, Rnd3,Cd82,Slit2,Scn5a,Cd74,Ccnd1,Diaph1,Jun,Ctbp2,Capn1,Timp2,Cyth2,Ntrk2,Cldn7*
Molecular Transport	64	4,85E-04-2,3E-02	*Kitlg,Lgals1,Calcr,Cast,Cpt1a,Prkcz,Fos,Igf2,Elovl5,Cadps,Pmp22,Fcgr2a,Cadps2,Itsn1,Grk6,Ccl 11,Vegfa,Spp1,Alox15,Soat1,Ccl13,Adipoq,Slc2a4,Exoc2,Trhr,Ednra,Kcnj11, Apoe,Ppargc1b,Xdh,Plcg2,Rab2b,Ryr2,Acot2,Camk2d,L1cam,Sstr2,Stxbp1,Lyz1/Lyz2,Snca,Atp2 b3,Agtr1b,Igf1,Fcgrt,Dgka,Igfbp7,Agtrap,Apod,Pex5l,F2r,Epas1,Rab3c,Pde6d,Epor, Hyou1,Vldlr,Abcc8,Dlk1,Pnpla2,Rab27a,Steap2,Acsl1,Exoc7,Rab3d*
Small Molecule Biochemistry	53	4,85E-04-2,41E-02	*Sh3kbp1,Kitlg,Plch2,Htatip2,Prkcz,Cpt1a,Igf2,Fos,Elovl5,Pex7,Fcgr2a,Ccl11,Vegfa,Spp1,Soat1,A lox15,Adipoq,Ccl13,Csgalnact1,Mtmr1,Slc2a4,Gpx4,Chka,Fig4,Ednra,Trhr,Apoe, Ppargc1b,Xdh,Csgalnact2,Plcg2,Acot2,Sstr2,Snca,Agtr1b,Mtmr2,Igf1,Dgka,Igfbp7, Agtrap,Apod,Ppap2b,Vtn,Epas1,F2r,Ptgr2,Cd74,Vldlr,Chpt1,Dlk1,Pnpla2,Ppapdc1b,Acsl1*
Cell Cycle	50	2,2E-04-2,38E-02	*Kitlg,Lgals1,Tusc2,Ccnd2,Pnpt1,Calcr,Cables1,Cast,Fos,Igf2,Tmpo,Cdkn1c,Cebpd,Dgkz, Apbb1,Vegfa,Degs1,Rprm,Alox15,Adipoq,Map2k6,Chka,Apoe,Grb10,Id3,Camk2n1,Igfbp3, Ppap2c,Camk2d,Sstr2,Pola1,Id2,Hes1,Igf1,Map2k3,Igfbp7,Cdkn2c,Xrcc5,Epor,Camk2b, Ccnd1,Xpa,Babam1,Pold4,Jun,Camk1,Timp2,Ap2a2,Setd8,Atf5*

Lipid Metabolism	44	2,71E-03-2,41E-02	*Sh3kbp1,Kitlg,Acot2,Sstr2,Plch2,Snca,Cpt1a,Mtmr2,Igf1,Igf2,Elovl5,Igfbp7,Apod,Fcgr2a,Pex7,Vtn,Ppap2b,F2r,Epas1,Ccl11,Vegfa,Soat1,Ptgr2,Alox15,Adipoq,Ccl13,Cd74,Mtmr1, Slc2a4,Vldlr,Chpt1,Chka,Gpx4,Fig4,Trhr,Ednra,Dlk1,Pnpla2,Ppapdc1b,Apoe,Ppargc1b, Acsl1,Xdh,Plcg2*
Cell Morphology	35	2,25E-03-2,36E-02	*Kitlg,Plat,Coro1a,L1cam,Snca,Cast,Tnr,Igf1,Evl,Krt18,Map2k3,Cdkn1c,Tnfsf12,Pmp22, Fcgr2a,Vtn,Lppr5,F2r,Stmn2,Ccl11,Vegfa,Cd82,Slit2,Ccl13,Diaph1,Ndn,Nlgn3,Rtn4r,Jun, Apoe,Sncb,Rab3d,Xdh,Plcg2,Igfbp3*
Cell Signaling	31	1,25E-02-1,25E-02	*Ryr2,Lgals1,Camk2d,L1cam,Lyz1/Lyz2,Calcr,Cast,Atp2b3,Agtr1b,Igf1,Igf2,Fos,Igfbp7,Pmp22, Fcgr2a,Grk6,F2r,Ccl11,Pde6d,Vegfa,Epor,Spp1,Ccl13,Hyou1,Abcc8,Trhr,Ednra,Kcnj11, Apoe,Xdh,Plcg2*
Vitamin and Mineral Metabolism	31	1,25E-02-1,25E-02	*Ryr2,Lgals1,Camk2d,L1cam,Lyz1/Lyz2,Calcr,Cast,Atp2b3,Agtr1b,Igf1,Igf2,Fos,Igfbp7,Pmp22,Fcgr2a,Grk6,F2r,Ccl11,Pde6d,Vegfa,Epor,Spp1,Ccl13,Hyou1,Abcc8,Trhr,Ednra,Kcnj11, Apoe,Xdh,Plcg2*
Carbohydrate Metabolism	28	4,85E-04-2,3E-02	*Sh3kbp1,Plch2,Htatip2,Cpt1a,Prkcz,Agtr1b,Igf1,Mtmr2,Igf2,Dgka,Mfng,Fcgr2a,Vtn,Vegfa, Spp1,Alox15,Ccl13,Adipoq,Csgalnact1,Mtmr1,Slc2a4,Chpt1,Chka,Gpx4,Fig4,Trhr,Plcg2, Csgalnact2*
Post-Translational Modification	22	2,52E-03-7,3E-03	*Tpp1,Vegfa,Ltbp4,Plat,Bace2,Alox15,C4b,Pcsk2,Diaph1,Ctss,Cndp2,Wfdc2,Prkcz,Gpx4,Igf1,Ace, Apoe,Enpep,Dpp3,Capn1,Timp2,Xdh*
Cellular Compromise	20	5,84E-03-2,41E-02	*Stmn2,Pdyn,Epor,Spp1,Sqstm1,Plat,Adipoq,Plod1,Nefh,Snca,Six1,Igf1,Cadm1,Igf2,Apoe, Krt18,Acsl1,Exoc7,Ntrk2,Xrcc5*
Protein Degradation	18	6,87E-03-6,87E-03	*Tpp1,Ltbp4,Plat,Bace2,Alox15,C4b,Pcsk2,Diaph1,Cndp2,Ctss,Wfdc2,Ace,Igf1,Apoe,Enpep, Dpp3,Capn1,Timp2*
Protein Synthesis	18	6,87E-03-6,87E-03	*Tpp1,Ltbp4,Plat,Bace2,Alox15,C4b,Pcsk2,Diaph1,Cndp2,Ctss,Wfdc2,Ace,Igf1,Apoe,Enpep, Dpp3,Capn1,Timp2*
Antigen Presentation	16	7,3E-03-2,36E-02	*Epas1,Nckap1l,Vegfa,Slit2,Spp1,Coro1a,Cd74,Ccl13,Adipoq,Ccnd1,Tnr,Ednra,Apoe,Cd151,Fcgr2a,Vtn*
Drug Metabolism	8	6,48E-04-7,07E-03	*Gstm5,Glrx,Agtr1b,Fos,Xdh,Agtrap,Gstp1,Snca*
Gene Expression	5	7,3E-03-2,27E-02	*Jun,Ccnd1,Id3,Id2,Cdkn2c*
Protein Folding	2	7,3E-03-7,3E-03	*Prkcz,Vegfa*
DNA Replication, Recombination, and Repair	2	2,27E-02-2,27E-02	*Pcna,Xrcc5*

B- Hypothalamus

Category	**# of genes**	**P value**	***Genes***
Cell Death	78	7,08E-11-7,58E-03	*Cd48,Calcb,Pdyn,S100a9,Kitlg,Uba7,Ccnd2,Gadd45b,Ndp,Cd38,Nts,Casp4,Ptpn6,Egr4,Timp4,Cd4,Sst,Ctse,Scd,Slc40a1,Alb,Fcgr3a,Fcgr2a,Gja1,Ghrh,Hla-C,Cfh,Mtmr1,Gsta1,C1qa, Hck,Gal,Sox4,Lgals3bp,C3,Acer2,Igfbp3,Aif,Csf1r,Cd53,B2m,Wnt4,Ptprc,Dusp6,Tap2,Ctss,Plagl1,Zfp36,Hspb1,Fcgr2b,Dsp,Ednrb,Slc1a2,Anxa4,Tspo,Grm2,Nptx1,Ephx1,Pycard,F2r,Anxa11,Aqp1,Sp110,Icam1,Serpina3,Rac2,Fcer1g,Cidea,Irf9,Six4,Dlk1,Rras2,Rab27a,Tyrobp,Stat1,Hcrtr1, Nlk,Blnk*
Cellular Growth and Proliferation	71	9,46E-08-7,26E-03	*Cd48,Calcb,Kitlg,S100a9,Ccnd2,Gadd45b,Ndp,Cd38,Ptpn6,Nts,Egr4,Timp4,Sst,Cd4,Alb, Hmgcr,Clec7a,Gpnmb,Fcgr3a,Gja1,Ghrh,Psmb9,Fads2,Gbp2,Tmeff1,Hck,Sash3,Htr1a,Gal,Fads1,Sox4,C3,Bst2,Psmb8,Dcx,Acer2,Igfbp3,Aif1,Csf1r,B2m,Wnt4,Ptprc,Dusp6,Col1a1, Ifit3,Ube2l6,Ctss,Nrarp,Plagl1,Zfp36,Dsp,Fcgr2b,Ednrb,Slc1a2,Tspo,Lcp1,Cd37,Pycard, F2r,Anxa11,Aqp1,Icam1,Rac2,Fcer1g,Six4,Dlk1,Stat1,Tyrobp,Hcrtr1,Cdh23,Blnk*
Cell-To-Cell Signaling and Interaction	57	1,54E-12-7,26E-03	*Cd48,Calcb,Kitlg,S100a9,Mllt4,Ccnd2,C4b,Ndp,Cd38,Nts,Ptpn6,Plek,Slc1a6,Cd4,Sst,Clec7a,Fcgr2a,Fcgr3a,Gja1,Ghrh,Hla-C,Psmb9,Cfh,Sash3,Hck,C1qa,Htr1a,Tnfaip8l2,Gal,Fzd2, Sv2b,Lgals3bp,C3,Bst2,Psmb8,Igfbp3,Csf1r,B2m,Wnt4,Ptprc,Ctss,Ube2l6,Fcgr2b,Slc1a2,Grm2,Lcp1,Nptx1,Pycard,F2r,Icam1,Rac2,Fcer1g,Rras2,Rab27a,Tyrobp,Stat1,Hcrtr1*
Small Molecule Biochemistry	57	5,37E-07-7,06E-03	*Calcb,Kitlg,Mllt4,S100a9,C4b,Cd38,Npc2,Nts,Plek,Cyp4f8,Slc1a6,Cd4,Sst,Clec7a,Hmgcr, Alb,Scd,Fcgr2a,Ghrh,Cfh,Fads2,Gsta1,Htr1a,Cyp27a1,Fzd2,Gal,Fads1,C3,Acss2,Igfbp3, Aif1,Csf1r,B2m,Wnt4,Thrsp,Ptprc,Arhgdib,Ctss,Slc7a10,Fcgr2b,Ednrb,Slc1a2,Cyp2d6, Tspo,Grm2,Ephx1,Crym,F2r,Cyp51a1,Icam1,Pnlip,Fcer1g,Dlk1,Rab27a,Tyrobp,Stat1,Cp*
Cellular Function and Maintenance	52	2,25E-07-7,74E-03	*Calcb,Kitlg,S100a9,Cd38,Ptpn6,Nts,Plek,Cenpj,Slc1a6,Sst,Cd4,Alb,Clec7a,Slc40a1,Fcgr2a,Fcgr3a,Gja1,Ghrh,Hck,C1qa,Htr1a,Gal,Sox4,C3,Bst2,Anxa3,Dcx,Csf1r,B2m,Wnt4,Ptprc, Arhgdib,Iqgap1,Ctss,Nrarp,Hspb1,Fcgr2b,Dsp,Pygl,Ednrb,Grm2,Lcp1,Pycard,F2r,Aqp1, Icam1,Rac2,Fcer1g,Rras2,Stat1,Tyrobp,Cp*
Cellular Development	49	2,15E-06-7,26E-03	*Calcb,Kitlg,Ccnd2,Gadd45b,Cd38,Ptpn6,Cd4,Sst,Ctse,Sept11,Alb,Scd,Clec7a,Fcgr2a,Gja1,Fads2,Fzd2,Sox4,C3,Dcx,Igfbp3,Csf1r,B2m,Wnt4,Ptprc,Plagl1,Nrarp,Zfp36,Fcgr2b,Dsp,C1qc,Slc1a2, Ednrb,Lcp1,Grxcr1,Cyp51a1,Icam1,Metrn,Rac2,Fcer1g,Dlk1,Rras2,Rab27a,Stat1,Tyrobp,Asb1,Cdh23,Nlk,Blnk*
Cell Signaling	48	4,39E-08-7,72E-03	*Cd48,Calcb,S100a9,Csf1r,Kitlg,B2m,Wnt4,Ptprc,C4b,Gadd45b,Cd38,Casp4,Nts,Hspb1,Zfp36,Ptpn6,Fcgr2b,Ednrb,Tspo,Grm2,Cd4,Sst,Clec7a,Alb,Fcgr3a,Fcgr2a,Pycard,F2r,Gja1,Ghrh,Icam1,Hla-C,Hck,Rac2,Htr1a,Fcer1g,Fzd2,Gal,Irf9,Tyrobp,Stat1,C3,Bst2,Wnk1,Nlk,Aif1 ,Blnk,Igfbp3*
Cellular Movement	47	1,97E-10-7,26E-03	*Cd48,Kitlg,Csf1r,S100a9,Ptprc,Iqgap1,Arhgdib,C4b,Col1a1,Ndp,Ctss,Cd38,Ptpn6,Nts, Fcgr2b,Slc1a2,Ednrb,Tspo,Lcp1,Nptx1,Sst,Cd4,Ctse,C2,Hmgcr,Alb,Fcgr3a,Fcgr2a, Pycard,F2r,Gja1,Aqp1,Icam1,Cfh,Serpina3,Hck,Rac2,Fcer1g,Six4,Rras2,Tyrobp,Stat1,C3, Anxa3,Dcx,Igfbp3,Aif1*
Molecular Transport	47	4,39E-08-7,72E-03	*Calcb,Csf1r,Kitlg,S100a9,B2m,Wnt4,Ptprc,C4b,Ctss,Cd38,Slc7a10,Ptpn6,Nts,Fcgr2b, Ednrb,Slc1a2,Grm2,Sst,Cd4,Crym,Slc40a1,Scd,Hmgcr,Alb,Clec7a,Fcgr3a,Fcgr2a,F2r, Ghrh, Icam1,Hla-C,Cfh,Fads2,Gsta1,Hck,Rac2,Htr1a,Cyp27a1,Fcer1g,Fzd2,Gal,Dlk1, Rab27a,Tyrobp,Cp,C3,Blnk*

Vitamin and Mineral Metabolism	37	4,39E-08-7,72E-03	*Calcb,Csf1r,Kitlg,S100a9,B2m,Wnt4,Ptprc,C4b,Cd38,Nts,Ptpn6,Fcgr2b,Ednrb,Tspo,Grm2, Sst,Cd4,Scd,Hmgcr,Alb,Clec7a,Fcgr3a,Fcgr2a,F2r,Cyp51a1,Ghrh,Hla-C,Icam1,Hck,Rac2, Htr1a,Cyp27a1,Fcer1g,Fzd2,Gal,C3,Blnk*
Lipid Metabolism	35	3E-05-7,06E-03	*Kitlg,Csf1r,Wnt4,Thrsp,Ctss,Cd38,Nts,Npc2,Fcgr2b,Slc1a2,Cyp2d6,Cyp4f8,Ednrb,Tspo, Cd4,Ephx1,Alb,Hmgcr,Clec7a,Scd,Fcgr2a,F2r,Cyp51a1,Ghrh,Icam1,Fads2,Gsta1,Pnlip, Fcer1g,Cyp27a1,Gal,Dlk1,Fads1,C3,Acss2*
Antigen Presentation	31	1,36E-07-7,06E-03	*Cd48,Csf1r,Kitlg,S100a9,Ptprc,C4b,Ube2l6,Ctss,Cd38,Ptpn6,Fcgr2b,Ednrb,Cd4,Ctse, Clec7a,Fcgr2a,F2r,Icam1,Hla-C,Psmb9,Cfh,Serpina3,C1qa,Rac2,Hck,Fcer1g,Rab27a, Stat1,Tyrobp,C3,Psmb8*
Post-Translational Modification	22	1,2E-06-1,73E-04	*F2r,Cd48,Csf1r,Kitlg,Ptprc,Dusp6,Ccnd2,Hck,Fcer1g,Ptpn6,Phkg1,Fcgr2b,Ednrb,Cp, Tyrobp,Cd4,Wnk1,Alb,Fcgr2a,Nlk,Igfbp3,Aif1*
Cellular Assembly and Organization	22	8,78E-04-7,74E-03	*F2r,Gja1,S100a9,Aqp1,Csf1r,Kitlg,Icam1,Arhgdib,Iqgap1,Pls1,Rac2,C1qa,Ctss,Htr1a,Dsp, Gal,Plek,Cenpj,Lcp1,Bst2,Dcx,Fcgr2a*
Cell Morphology	22	1,34E-03-7,26E-03	*F2r,Kitlg,S100a9,Ghrh,B2m,Icam1,Hck,Hspb1,Ptpn6,Nts,Dsp,Plek,Dlk1,Ednrb,Grm2,Bst2, Sst,Cd4,Fcgr2a,Pycard,Blnk,Igfbp3*
Cellular Compromise	21	5,61E-08-6,41E-03	*Gja1,Kitlg,S100a9,Icam1,Wnt4,Cfh,Ptprc,C4b,Hck,Rac2,Cd38,Fcer1g,Fcgr2b,Rab27a, Tyrobp,Cd4,Bst2,C3,Anxa3,Alb,Fcgr2a*
Carbohydrate Metabolism	19	2,26E-04-5,8E-03	*F2r,Kitlg,Csf1r,Icam1,Ptprc,Dusp6,Htr1a,Cd38,Fcer1g,Nts,Phkg1,Fcgr2b,Plek,Pygl,Gal,Dlk1,Scd, Fcgr2a,Igfbp3*
Nucleic Acid Metabolism	14	1E-03-5,86E-03	*F2r,Calcb,Mllt4,Ghrh,Icam1,Cfh,Ptprc,Arhgdib,Htr1a,Nts,Gal,Grm2,Cd4,Sst*
Free Radical Scavenging	13	1,59E-03-2,37E-03	*F2r,Pdyn,Icam1,Cfh,Arhgdib,Iqgap1,Hck,Rac2,Hspb1,Ptpn6,Fcer1g,Alb,Fcgr2a*
Amino Acid Metabolism	9	1,73E-04-3,48E-03	*Nts,Ednrb,Slc1a2,Cp,Slc1a6,Sst,Crym,Alb,Slc7a10*
Cell Cycle	8	5,15E-04-5,23E-03	*Fcgr2b,Kitlg,Stat1,Cd37,Col1a1,Fcgr2a,Blnk,Cd38*
Protein Trafficking	3	5,23E-03-5,23E-03	*Ednrb,Icam1,C3*
Energy Production	2	1,73E-04-1,73E-04	*Cp,Alb*
Drug Metabolism	2	5,15E-04-5,15E-04	*Cyp2d6,Alb*