



#### Group 0 main functional clusters

- Collagen formation  
Postn, Tgfb2, Col18a1, Serpinh1, Lum, Plod2, Fmod, Col1a2, Col1a1, Col6a2, Islr, P4ha1, Ccdc80, Col20a1, Mfap5, Lox, Col22a1, Col4a6, Col9a2, Col24a1, Fbln2, Colgalt1, Fstl1, P3h2, Col8a1, Aspn, Col12a1, Col11a1, Col5a2, Col14a1, Itgbl1, Dpt, Sulf1, Mfap4, Cdh11, Tnmd, Omd, Cilp, Loxl4, Moxd1, Cdkl2, Fkbp9, Svep1
- Ras signalling pathway  
Ngfr, Egfr, Shc4, Ereg, Pdgfc, Shc2, Areg, Shc3, Fgf21, Hgf, Fgf6, Fgf5, Hbegf, Gab2, Met, Flt4, E2f3, Tgm2, Ptprj, Rhbdf1, Cdcpl, Tns3
- Mixed, incl. cellular response to interferon- $\beta$ , and antiviral mechanism by IFN-stimulated genes  
Eif2ak2, Ifit2, Xaf1, Irgm1, Irf9, Stat2, Rsad2, Nlrc5, Phf11d, Lgals3bp, Trim30a, Gbp3, Parp9, Herc6, Rtp4, Oasl2, Trim30d
- Chondroitin sulfate/dermatan sulfate metabolism  
Cspg4, Adamts1, Bgn, Tgfb3, Dcn, Ccn4, Lrrc59, Tmprss6, Sdc2, Chst10, Chst3, Chsy1, Chsy3, Ust, Chst15, Dse1, Dse
- ECM-receptor interaction  
Cd44, Cd34, Thbs3, Itga4, Itga2, Itga5, Ddr1, Sele, Tiam2, Serpinb1c, Serpinb8, Serpinb6b
- Endoplasmic reticulum to Golgi vesicle-mediated transport  
Sec31a, Arfgap3, Stx5a, Gosr2, Kdelr3, Copg1, Vti1a, Sec23b, Lman1l, Stx11, Stx2, Golim4
- Uncharacterised  
Ifrd1, Cul7, Rpl3, Kcnd1, Eif5a2, Eif1a, Zcchc4, Fam111a, Pbp2, Ccdc8
- Nicotinate and nicotinamide metabolism  
Adcy7, Adcy2, Enpp1, Acp2, Nmrk2, Nmnat2, Upp1, Pde1a, Pde8a, Slc20a1
- Necroptotic process  
Casp8, Tnfrsf10b, Casp12, MLK1, Bcl10, Ripk1, Gsdma, Tnfrsf23, Capn2, Pigk
- Maturation of SSU-rRNA  
Riok1, Heatr1, Wdr43, Gcc1, Rrp12, Tsr1, Ddx21, Pum3, Iffo2