



#### Group 11 main functional clusters

- Regulation of transcription from RNA polymerase II promoter in response to stress  
Cd83, Fos, Egr1, Btg2, Sik1, Atf3, Klf2, Nr4a2, Nr4a3, Cebpb, Fosl2, Errfi1
- HDR through Homologous Recombination (HRR)  
Gm11808, Ubfd1, Orc6, Rfc3, Bub3, Rad51b, Rps18-ps5, Ostc, Kcna5, Otud1, Ube2z
- Ceramide metabolism  
Elov11, Cers5, Cers2, Kdsr, Plpp1, Sgpl1, Ugcg, Gorasp2
- RHO GTPases activate WASPs and WAVES  
Cdc42, Rap1b, Actr3, Rhob, Tagap, Arpc5, Arpc2, Arhgap1
- Polysomal ribosome  
Eef1a1, Rpl10-ps3, Rpl39, Rpl41, Rps20, Nme1
- Mixed, incl. homeobox  
Ndubf4, Tmem254b, 2310022B05Rik, mt-Co3, Duxbl1
- Procollagen-proline dioxygenase activity  
P4hb, B2m, Creb3l1, Lgals9, P3h1
- Response to interleukin-18  
Anxa5, Capns1, Il18, Gpx1, Ripk2
- Nuclear-transcribed mRNA catabolism, nonsense-mediated decay  
Parn, Ncbp1, Usp39, Ddx39, Pcid2
- Tubulin/FtsZ family, C-terminal domain  
Tubb5, Tbcd, Tuba1a, Cnn3

#### Group 12 main functional clusters

- Mitotic spindle checkpoint, and mitotic sister chromatid segregation  
Uhrf1, Troap, Ska3, Chtf18, Parpbb, Depdc1b, Cenpi, Mcm10, Tyms, Ccnf, Tpx2, Brip1, Ercc6l, Fbxo5, Sgo1, Ndc80, Spc25, Rad54l, Pole2, Smc2, Lmnbl, Kif18b, Pimreg, Cenpe, Racgap1, Ska1, Mybl2, Kif15, Kif20b, Orc1, Kifc1, Mad2l1, Incenp, Nek2, Aspm, Pole, Eme1, Chek1, Kif4, Ncapg, Dlgap5, Fanci, Cdca2, Kif23, Trip13, Tk1, Dscc1, Ttk, Rrm1, Prim1, Clspn, Cenph, Ccnbl, Fignl1, Ckap2, Cdt1, Nuf2, E2f1, Rad51ap1, Cdca7, Espl1, Aurka, Ncaph, Shcbp1, Tacc3, Kntc1, Atad2, Plk1, Ccnb2, Chaf1b, Melk, Cdca3, Kif22, Nusap1, Zwilch, Ect2, Cep55, Spag5, Mcm4, Bub1b, Prcl, Ncapg2, Tcf19, Exo1, Foxm1, E2f8, Mcm2, Rad51, Mcm3, Kif11, Fancd2, Mcm6, Pclaf, Ube2c, Kif20a, Bub1, Kif2c, Aurkb, Cdc20, Cdca5, Mki67, Cdk1, Mcm5, Pbk, Hells, Top2a, Cdca8, Dtl, Cdc6, Birc5, Rrm2, Brca1, Ccna2, Lig1, Dnmt1, Tubb6, Tonsl, Mtrf2, Neil3, Mastl, Stmn1, Ticrr, Cip2a, Haspin, Mis18bp1, Stil, Kif14, Mxd3, Arhgef39, E2f7, Oip5, Esco2, Fam83d, Depdc1a, Iqgap3, Pif1, Ckap2l, Arhgap11a, Dbf4, Gtse1, Nsl1, Hmnr, Anln, Plk4, Knstrn, Knl1, Bard1, Cenpm, Cdkn3, Cdc25c, Spdl1, Cks2, Dck, Rbl1, Dna2, Prim2, Wdhd1, Mms22l, Diaph3, Cit, Prr11, Arl6ip1, Traip, Ank1e1, Pask, Sapcd2, Ddias, Trim59, Arhgap33
- Uncharacterised  
Stat1, Serpinb1a, Cx3cr1
- Tenascin complex  
Tnc, Tnr