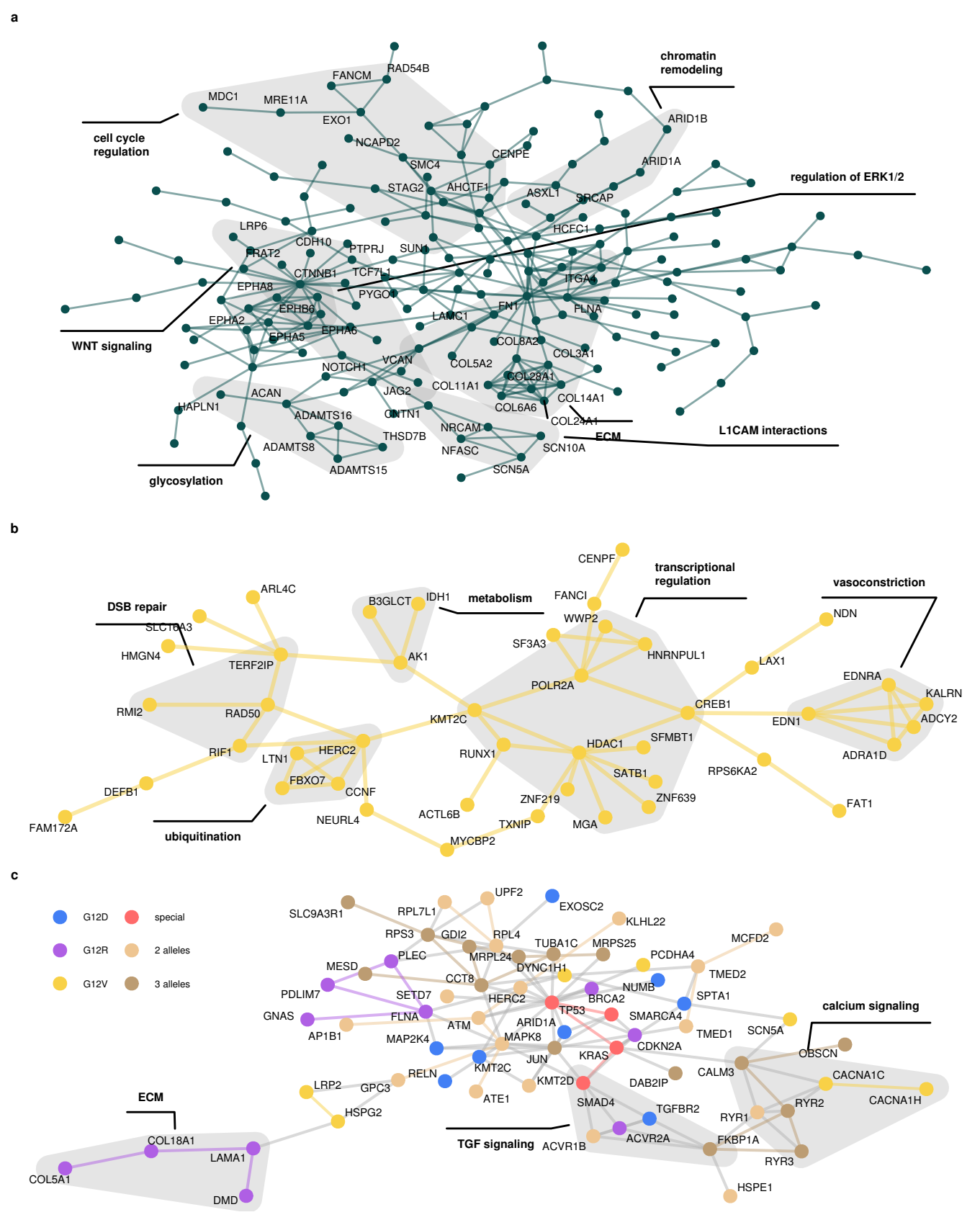
a
chromatin remodeling
cell cycle regulation
regulation of ERK1/2
WNT signaling
L1CAM interactions
ECM
glycosylation
MDC1
MRE11A
FANCM
RAD54B
EXO1
NCAPD2
SMC4
CENPE
STAG2
AHCTF1
ASXL1
SRCAP
ARID1B
ARID1A
HCFC1
LRP6
CDH10
FRAT2
PTPRJ
SUN1
CTNNB1
TCF7L1
PYGO1
EPHA8
EPHB6
EPHA2
EPHA5
EPHA6
LAMC1
FN1
ITGA4
FLNA
COL8A2
COL3A1
COL5A2
COL28A1
COL11A1
COL14A1
COL6A6
COL24A1
VCAN
NOTCH1
JAG2
CNTN1
ACAN
HAPLN1
ADAMTS16
THSD7B
ADAMTS8
ADAMTS15
NRCAM
NFASC
SCN10A
SCN5A
b
DSB repair
metabolism
transcriptional regulation
vasoconstriction
ubiquitination
CENPF
ARL4C
B3GLCT
IDH1
FANCI
WWP2
SLC16A3
HMGN4
TERF2IP
AK1
SF3A3
HNRNPUL1
NDN
LAX1
POLR2A
EDNRA
KALRN
RMI2
RAD50
KMT2C
CREB1
EDN1
ADCY2
RIF1
LTN1
HERC2
RUNX1
HDAC1
SFMBT1
ADRA1D
RPS6KA2
DEFB1
FBXO7
CCNF
SATB1
ZNF639
ZNF219
FAT1
FAM172A
NEURL4
ACTL6B
TXNIP
MGA
MYCBP2
c
G12D
special
G12R
2 alleles
G12V
3 alleles
calcium signaling
ECM
TGF signaling
UPF2
EXOSC2
SLC9A3R1
RPL7L1
KLHL22
RPS3
GDI2
RPL4
TUBA1C
MRPS25
MCFD2
PLEC
MRPL24
PCDHA4
MESD
DYNC1H1
TMED2
CCT8
NUMB
PDLIM7
SETD7
HERC2
BRCA2
SPTA1
TP53
GNAS
FLNA
ATM
SMARCA4
ARID1A
SCN5A
AP1B1
MAP2K4
MAPK8
TMED1
CDKN2A
OBSCN
KRAS
JUN
KMT2C
RELN
CALM3
CACNA1C
LRP2
GPC3
KMT2D
DAB2IP
CACNA1H
ATE1
SMAD4
RYR2
HSPG2
TGFBR2
RYR1
COL18A1
ACVR2A
FKBP1A
LAMA1
ACVR1B
RYR3
COL5A1
HSPE1
DMD