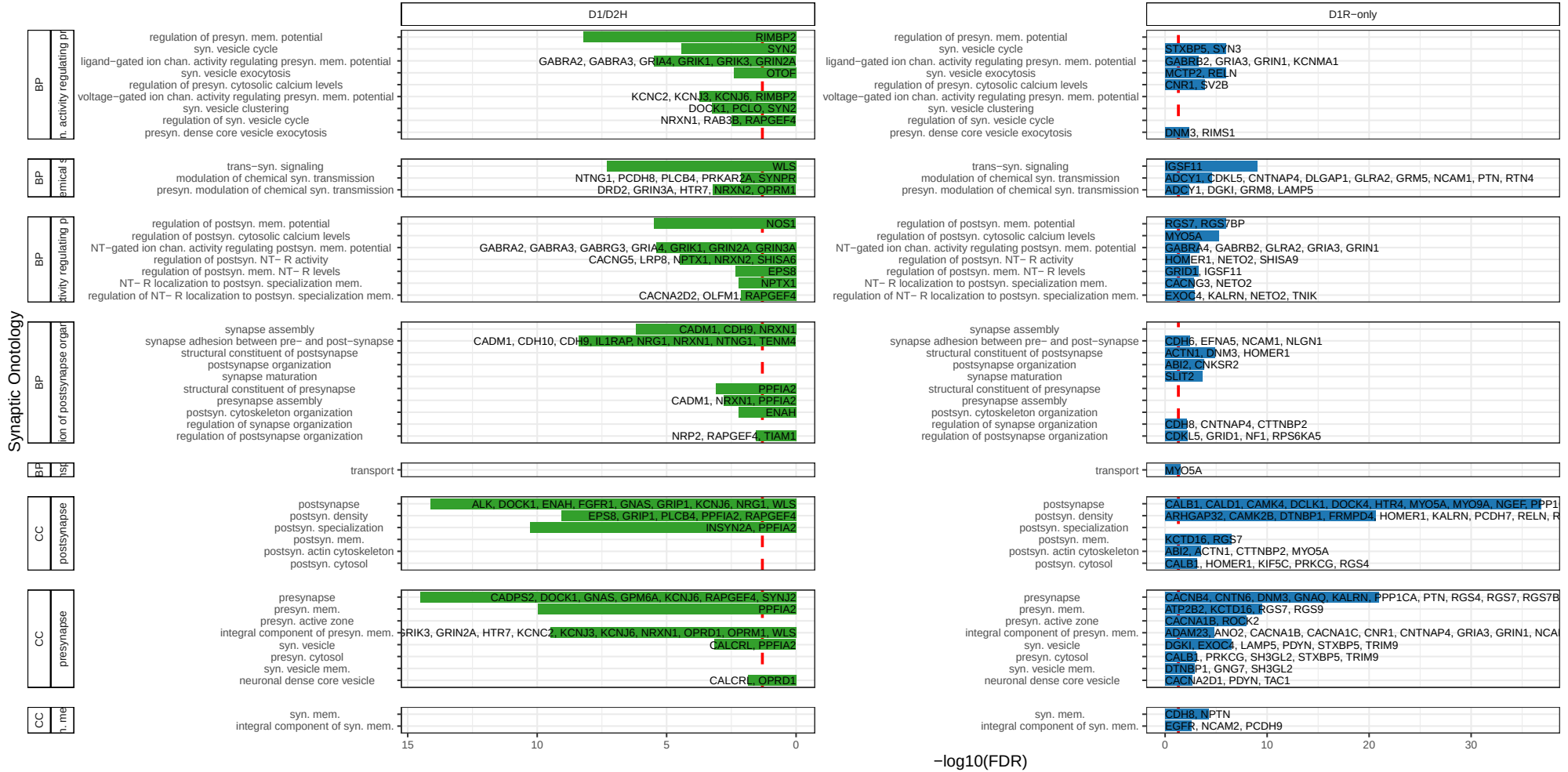
D1/D2H
D1R−only
Synaptic Ontology
BP
regulation of presyn. mem. potential
syn. vesicle cycle
ligand−gated ion chan. activity regulating presyn. mem. potential
syn. vesicle exocytosis
regulation of presyn. cytosolic calcium levels
voltage−gated ion chan. activity regulating presyn. mem. potential
syn. vesicle clustering
regulation of syn. vesicle cycle
presyn. dense core vesicle exocytosis
RIMBP2
SYN2
GABRA2, GABRA3, GRIA4, GRIK1, GRIK3, GRIN2A
OTOF
KCNC2, KCNJ3, KCNJ6, RIMBP2
DOCK1, PCLO, SYN2
NRXN1, RAB3B, RAPGEF4
STXBP5, SYN3
GABRB2, GRIA3, GRIN1, KCNMA1
MCTP2, RELN
CNR1, SV2B
DNM3, RIMS1
trans−syn. signaling
modulation of chemical syn. transmission
presyn. modulation of chemical syn. transmission
WLS
NTNG1, PCDH8, PLCB4, PRKAR2A, SYNPR
DRD2, GRIN3A, HTR7, NRXN2, OPRM1
IGSF11
ADCY1, CDKL5, CNTNAP4, DLGAP1, GLRA2, GRM5, NCAM1, PTN, RTN4
ADCY1, DGKI, GRM8, LAMP5
regulation of postsyn. mem. potential
regulation of postsyn. cytosolic calcium levels
NT−gated ion chan. activity regulating postsyn. mem. potential
regulation of postsyn. NT− R activity
regulation of postsyn. mem. NT− R levels
NT− R localization to postsyn. specialization mem.
regulation of NT− R localization to postsyn. specialization mem.
NOS1
GABRA2, GABRA3, GABRG3, GRIA4, GRIK1, GRIN2A, GRIN3A
CACNG5, LRP8, NPTX1, NRXN2, SHISA6
EPS8
NPTX1
CACNA2D2, OLFM1, RAPGEF4
RGS7, RGS7BP
MYO5A
GABRA4, GABRB2, GLRA2, GRIA3, GRIN1
HOMER1, NETO2, SHISA9
GRID1, IGSF11
CACNG3, NETO2
EXOC4, KALRN, NETO2, TNIK
synapse assembly
synapse adhesion between pre− and post−synapse
structural constituent of postsynapse
postsynapse organization
synapse maturation
structural constituent of presynapse
presynapse assembly
postsyn. cytoskeleton organization
regulation of synapse organization
regulation of postsynapse organization
CADM1, CDH9, NRXN1
CADM1, CDH10, CDH9, IL1RAP, NRG1, NRXN1, NTNG1, TENM4
PPFIA2
CADM1, NRXN1, PPFIA2
ENAH
NRP2, RAPGEF4, TIAM1
CDH6, EFNA5, NCAM1, NLGN1
ACTN1, DNM3, HOMER1
ABI2, CNKSR2
SLIT2
CDH8, CNTNAP4, CTTNBP2
CDKL5, GRID1, NF1, RPS6KA5
transport
MYO5A
CC
postsynapse
postsyn. density
postsyn. specialization
postsyn. mem.
postsyn. actin cytoskeleton
postsyn. cytosol
ALK, DOCK1, ENAH, FGFR1, GNAS, GRIP1, KCNJ6, NRG1, WLS
EPS8, GRIP1, PLCB4, PPFIA2, RAPGEF4
INSYN2A, PPFIA2
CALB1, CALD1, CAMK4, DCLK1, DOCK4, HTR4, MYO5A, MYO9A, NGEF, PPP1
ARHGAP32, CAMK2B, DTNBP1, FRMPD4, HOMER1, KALRN, PCDH7, RELN, R
KCTD16, RGS7
ABI2, ACTN1, CTTNBP2, MYO5A
CALB1, HOMER1, KIF5C, PRKCG, RGS4
presynapse
presyn. mem.
presyn. active zone
integral component of presyn. mem.
syn. vesicle
presyn. cytosol
syn. vesicle mem.
neuronal dense core vesicle
CADPS2, DOCK1, GNAS, GPM6A, KCNJ6, RAPGEF4, SYNJ2
PPFIA2
GRIK3, GRIN2A, HTR7, KCNC2, KCNJ3, KCNJ6, NRXN1, OPRD1, OPRM1, WLS
CALCRL, PPFIA2
CALCRL, OPRD1
CACNB4, CNTN6, DNM3, GNAQ, KALRN, PPP1CA, PTN, RGS4, RGS7, RGS7B
ATP2B2, KCTD16, RGS7, RGS9
CACNA1B, ROCK2
ADAM23, ANO2, CACNA1B, CACNA1C, CNR1, CNTNAP4, GRIA3, GRIN1, NCA
DGKI, EXOC4, LAMP5, PDYN, STXBP5, TRIM9
CALB1, PRKCG, SH3GL2, STXBP5, TRIM9
DTNBP1, GNG7, SH3GL2
CACNA2D1, PDYN, TAC1
syn. mem.
integral component of syn. mem.
CDH8, NPTN
EGFR, NCAM2, PCDH9
15
10
5
0
0
10
20
30
−log10(FDR)