H20.33.017
H20.33.018
H20.33.020
H20.33.026
H20.33.033
H20.33.045
H21.33.002
H21.33.039
H21.33.044
H19.33.004
H20.33.001
H20.33.019
H20.33.030
H20.33.034
H20.33.044
H21.33.003
H21.33.019
H21.33.025
H21.33.030
H21.33.033
H21.33.037
H21.33.038
H21.33.040
up
down
Dementia
Normal
Dementia
Path --> Astro
FGF1 – FGFR1
APOE – LRP5
Path --> L2/3 IT
TGFB2 – ACVR1C
TGFB2 – ACVR1B
TGFB2 – ACVR1
TGFB1 – TGFBR3
TGFB1 – ITGB8
TGFB1 – ITGAV
RGMA – BMPR2
PAPLN – SIRPA
NTN1 – UNC5B
NRG1 – ITGAV
NEO1 – RGMB
NCAN – SDC3
NCAM1 – ISLR2
NAMPT – INSR
NAMPT – ADORA2A
LAMA5 – SV2A
LAMA5 – ITGA3
LAMA5 – DAG1
LAMA1 – ITGB8
LAMA1 – ITGAV
LAMA1 – ITGA7
JAM2 – ITGAV
FGF2 – GPC4
FGF1 – NRP1
EZR – SLC9A1
COL5A3 – SDC3
CD44 – EPCAM
APOE – LDLR
ADAM10 – TSPAN17
Path --> L4 IT
TGFB1 – TGFBR2
Path --> Oligo
TGFB1 – TGFBR2
TGFB1 – TGFBR1
Path --> Pvalb
TGFB1 – TGFBR2
LAMA5 – ITGA6
B2M – TAP2
B2M – TAP1
Path --> Sst
TGFB2 – TGFBR3
TGFB1 – TGFBR3
OLFM2 – ROBO2
NLGN4Y – NRXN3
NLGN4Y – NRXN2
NCAN – CDH2
NAMPT – INSR
LRIG1 – ERBB4
COL5A3 – ITGA10
CADM1 – CADM3
BMP7 – BMPR2
BMP7 – ACVR2A
Scaled L−R
pseudobulk exprs product
4
2
0
−2
−4
Sufficient presence
of sender & receiver
Sender absent
Sender & receiver present
Scaled ligand
activity in receiver
6
3
0
−3
−6

H20.33.017
H20.33.018
H20.33.020
H20.33.026
H20.33.033
H20.33.045
H21.33.002
H21.33.039
H21.33.044
H19.33.004
H20.33.001
H20.33.019
H20.33.030
H20.33.034
H20.33.044
H21.33.003
H21.33.019
H21.33.025
H21.33.030
H21.33.033
H21.33.037
H21.33.038
H21.33.040
up
down
Dementia
Normal
Dementia
ABCA1 − MEGF10
Astro --> Path
PTPRK − EGFR
NRG1 − ERBB4
NRG1 − EGFR
CD8T --> Path
SLC6A8 − LIFR
SEMA4D − PLXNB1
SEMA4A − PLXNB1
PDGFD − PDGFRB
PDGFB − PDGFRB
MIF − EGFR
MIF − CD74
MIF − CD44
LRRTM2 − FGFR3
LAMC1 − ITGB4
LAMA3 − ITGB4
L1CAM − EZR
L1CAM − EGFR
INHBA − TGFBR3
FGF17 − FGFR3
FGF13 − FGFR3
FGF10 − FGFR3
EFNB3 − EPHA4
EFNB1 − EPHA4
EFNA3 − EPHA5
EFNA1 − EPHA5
EFNA1 − EPHA4
CRLF1 − LIFR
COL14A1 − CD44
BMP8A − BMPR1B
ADAM10 − CD44
L2/3 IT --> Path
NRG1 − ERBB4
NRG1 − EGFR
L4 IT --> Path
NRG1 − ERBB4
NRG1 − EGFR
OPC --> Path
LAMA3 − ITGB4
LAMA1 − ITGB4
FGF10 − FGFR3
Oligo --> Path
NRG1 − ERBB4
NRG1 − EGFR
Pvalb --> Path
NRG3 − ERBB4
NRG3 − EGFR
NEGR1 − NTM
IGF1 − ITGB4
HMGB1 − TLR4
FSTL5 − IL6R
FGF14 − FGFR3
FGF13 − FGFR3
FGF13 − EGFR
FGF12 − FGFR3
CADM2 − CADM1
Sst --> Path
Sufficient presence
of sender & receiver
Sender & receiver absent
Receiver absent
Sender absent
Sender & receiver present
Scaled L−R
pseudobulk exprs product
2
0
−2
Scaled ligand
activity in receiver
2.5
0.0
−2.5