Flight to LA : WGS

#notch

- data dict
- genes relevant to NOTCH and TAGLN
  -
  - paralogs - Zhang 2020 NOTCH1 connection

LoFtool_scores.txt #notch #paralog

Gene	LoFtool_percentile
NIPBL	6.89E-05
SCN1A	1.38E-04
NOTCH1	2.07E-04

GeneHancer targets

Gene targets for GeneHancer:	SIDT2 ENSG00000254851 PAFAH1B2 APOA1 ENSG00000254678 APOA5 ZPR1 piR-39453 TAGLN	
Genomic Location:	chr11:117177670-117185049 (GRCh38/hg38)	chr11:117048386-117055765 (GRCh37/hg19)

ref 41. Guichet PO, Guelfi S, Teigell M, Hoppe L, Bakalara N, Bauchet L, et al. **Notch1** stimulation induces a vascularization switch with pericyte-like cell differentiation of glioblastoma stem cells. Stem Cells. 2015;33(1):21–34.

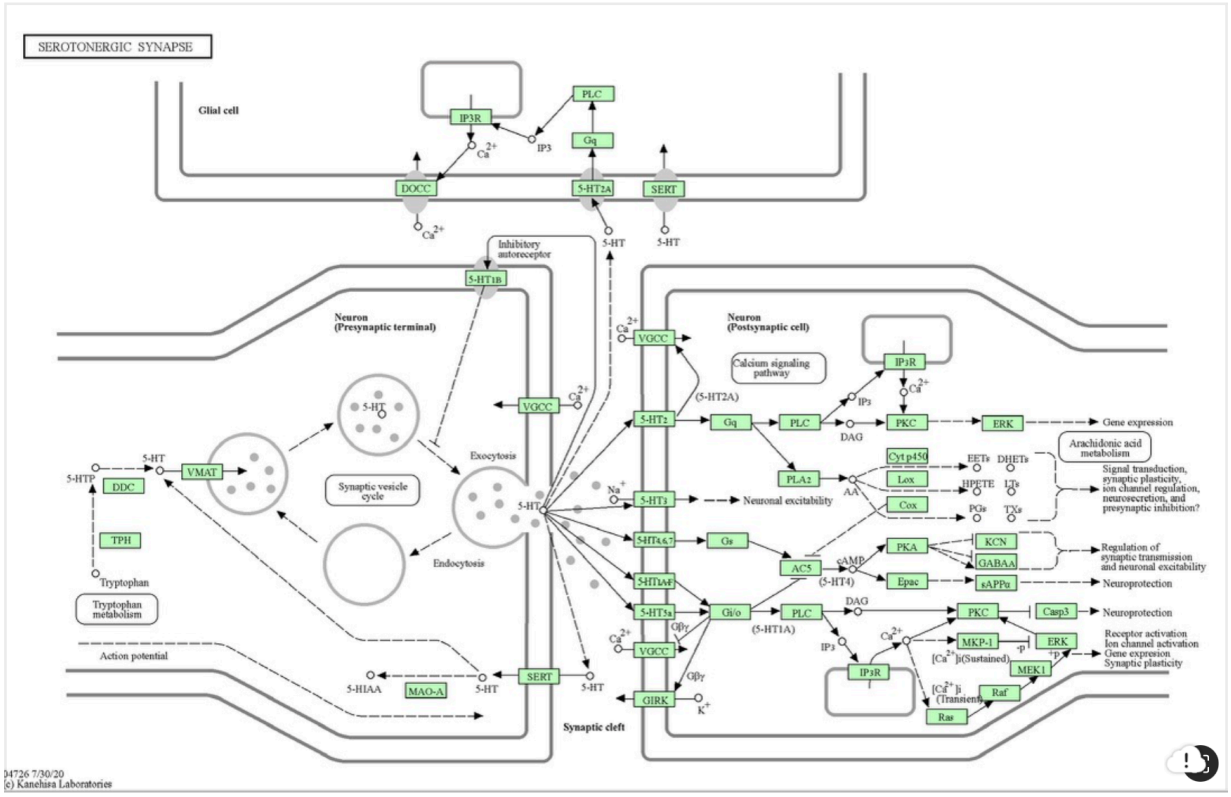
from Zhang, X., Yan, X., Cao, J. et al. **SM22α+** vascular mural cells are essential for vessel stability in tumors and undergo phenotype transition regulated by **Notch** signaling. J Exp Clin Cancer Res 39, 124 (2020). https://doi.org/10.1186/s13046-020-01630-x

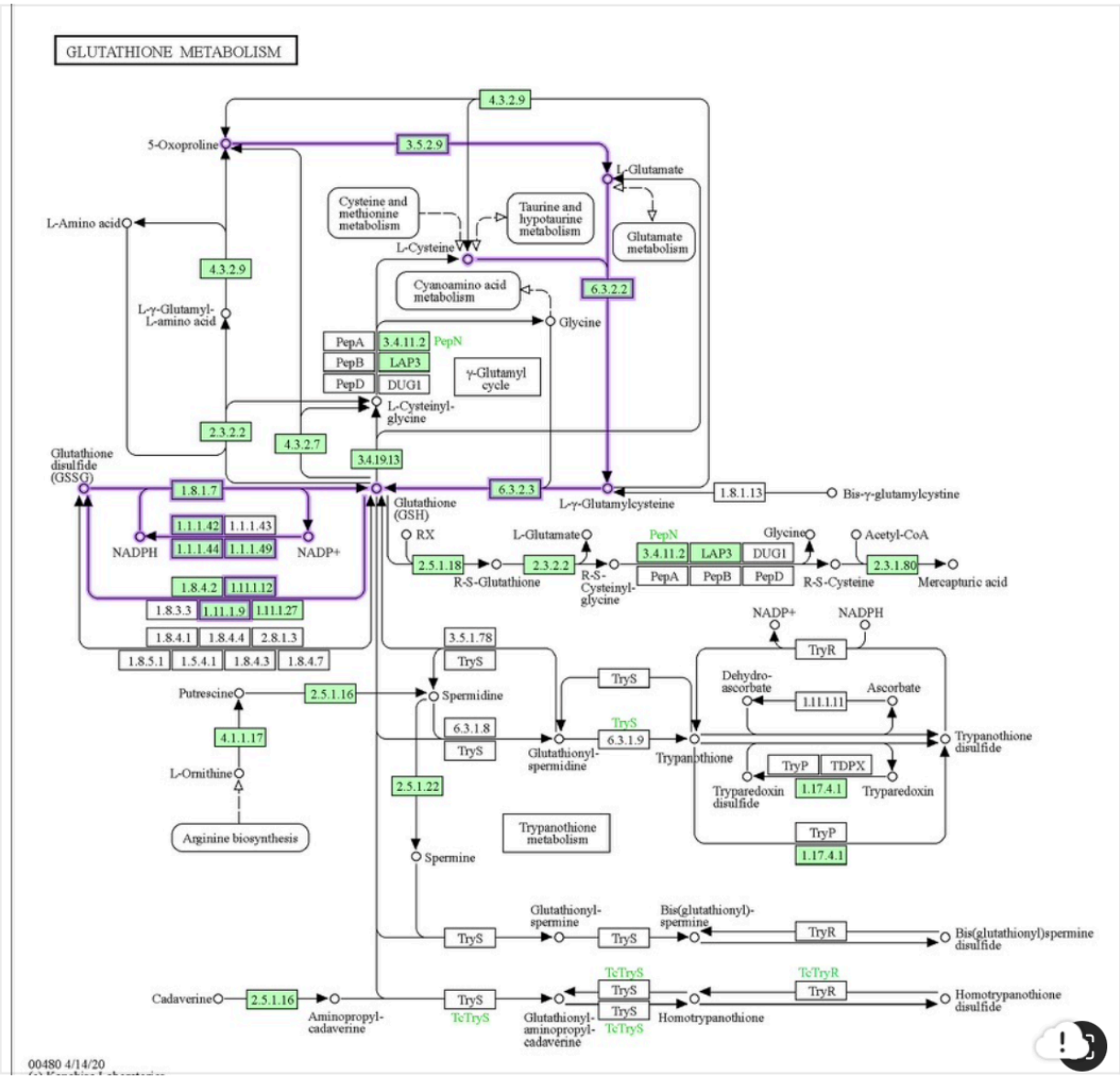
- NOTCH signaling :down == SM22alpha ;UP
- there for, CAD12 may have more NOTCH DOWN which causes SM22 UP..

Context of TAGLN expression UP, look at always UP

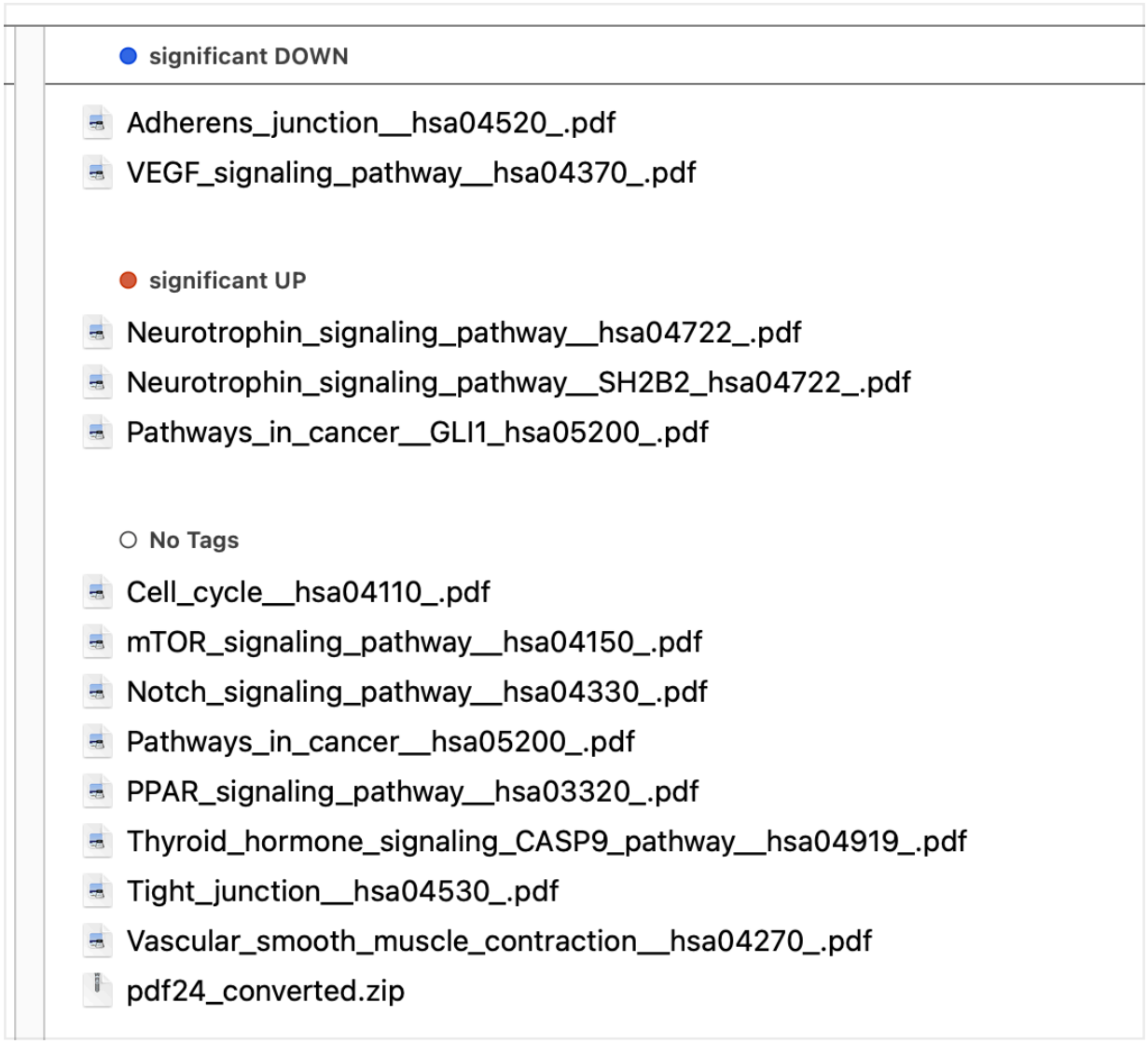
VEGF receptors

SORAF

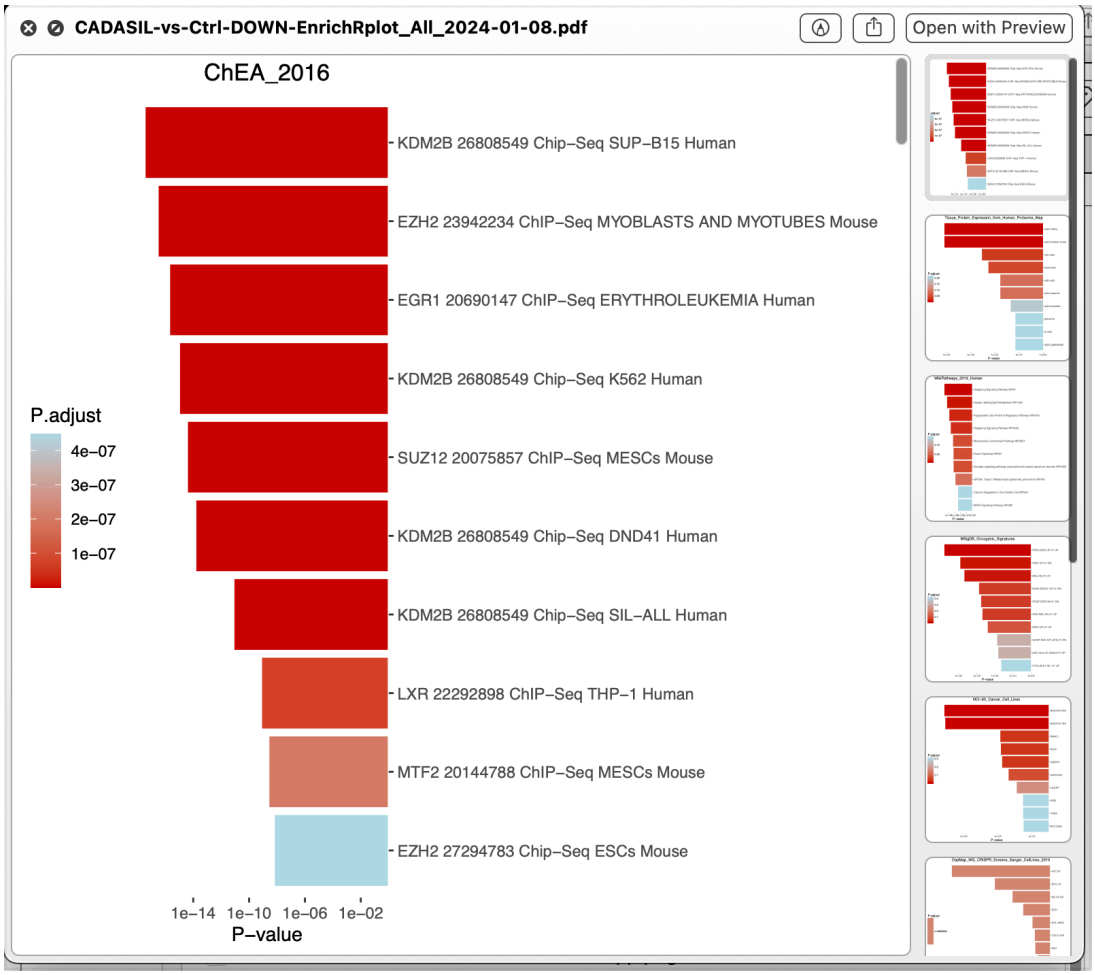



GLUTATHIONE METABOLISM
5-Oxoproline
L-Glutamate
L-Amino acid
Cysteine and methionine metabolism
Taurine and hypotaurine metabolism
Glutamate metabolism
L-Cysteine
Cyanoamino acid metabolism
L-γ-Glutamyl-L-amino acid
Glycine
PepA
PepB
PepD
LAP3
DUG1
PepN
γ-Glutamyl cycle
L-Cysteinyl-glycine
Glutathione disulfide (GSSG)
Glutathione (GSH)
L-γ-Glutamylcysteine
Bis-γ-glutamylcystine
NADPH
NADP+
RX
R-S-Glutathione
R-S-Cysteinyl-glycine
R-S-Cysteine
Acetyl-CoA
Mercapturic acid
Putrescine
Spermidine
L-Ornithine
Arginine biosynthesis
Glutathionyl-spermidine
Trypanothione
Trypanothione disulfide
Dehydro-ascorbate
Ascorbate
Tryparedoxin disulfide
Tryparedoxin
TryR
TryS
TryP
TDPX
Trypanothione metabolism
Spermine
Glutathionyl-spermine
Bis(glutathionyl)-spermine
Bis(glutathionyl)spermine disulfide
Cadaverine
Aminopropyl-cadaverine
TcTryS
TcTryR
Glutathionyl-aminopropyl-cadaverine
Homotrypanothione
Homotrypanothione disulfide
00480 4/14/20

hipathia



v1 DEApp2 and CADASIL all 3 overlap
LXR
KDM2B
LXR and RXR tags came from SM22alpha article notes shared with dad
EZH2


CADASIL-vs-Ctrl-DOWN-EnrichRplot_All_2024-01-08.pdf
Open with Preview
ChEA_2016
KDM2B 26808549 Chip–Seq SUP–B15 Human
EZH2 23942234 ChIP–Seq MYOBLASTS AND MYOTUBES Mouse
EGR1 20690147 ChIP–Seq ERYTHROLEUKEMIA Human
KDM2B 26808549 Chip–Seq K562 Human
SUZ12 20075857 ChIP–Seq MESCs Mouse
KDM2B 26808549 Chip–Seq DND41 Human
KDM2B 26808549 Chip–Seq SIL–ALL Human
LXR 22292898 ChIP–Seq THP–1 Human
MTF2 20144788 ChIP–Seq MESCs Mouse
EZH2 27294783 Chip–Seq ESCs Mouse
P.adjust
4e–07
3e–07
2e–07
1e–07
1e–14
1e–10
1e–06
1e–02
P–value