

A1 SE (SummarizedExperiment)

rowData(SE):
row annotation
(optional)

	annotation
gene1	ann1
gene2	ann2

assay(SE): data matrix

	assay1	assay2	assay3	assay4
gene1	4.3	6.3	1.5	3.5
gene2				

colData(SE): replicates

	sample	condition
assay1	S1	con1
assay2	S1	con1
assay3	S1	con2
assay4	S1	con2

A2 Data frame

	S1__con1	S1__con2	Annotation (optional)
gene1	5.3	2.5	ann1
gene2			ann2

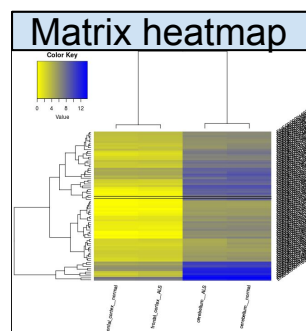
A3 Vector (gene1)

S1__con1	S1__con2
5.3	2.5

Aggregate replicates: assay1 and assay2, assay3 and assay4

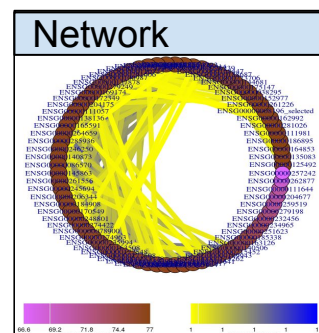
Hierarchically cluster
nearest neighbors of
target genes

D



Co-expression
analysis

E



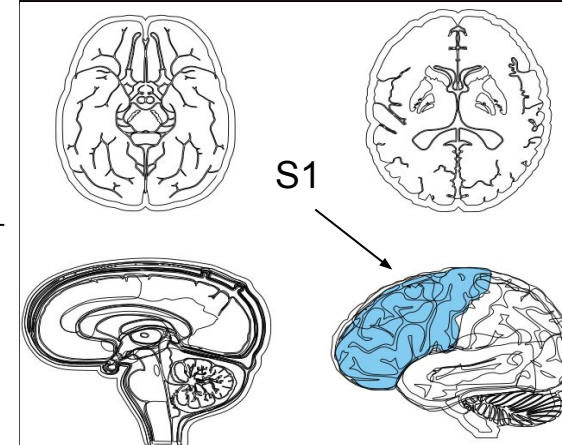
Enhance

F



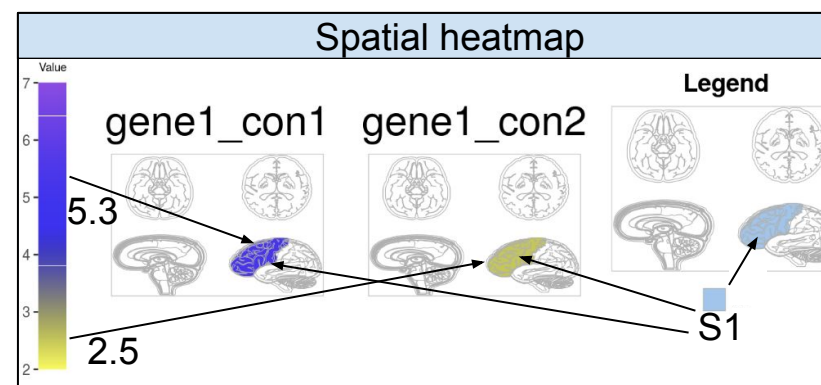
Map gene1 to S1 in aSVG image

Anatomical aSVG image



B

Spatial heatmap



C