

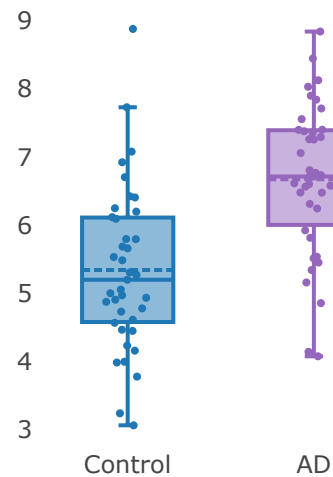
# AlzData

## High throughput data collection of Alzheimer's disease

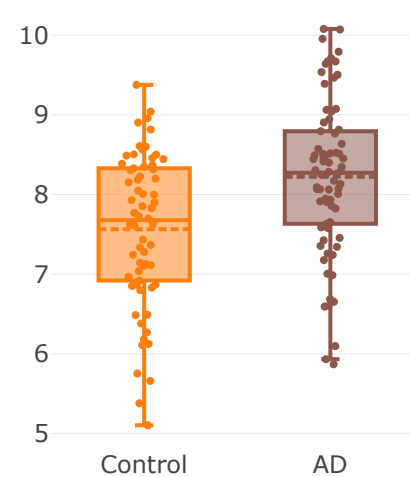
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### Cross-platform nomalized expression level of *APLNR*

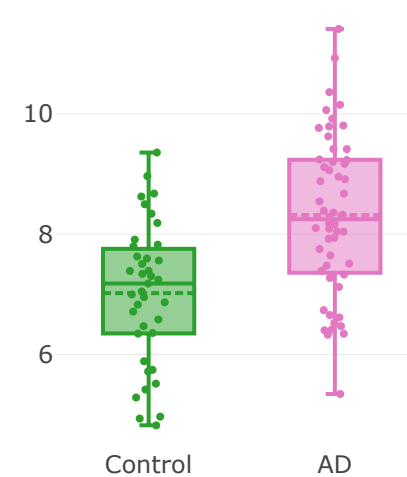
Entorhinal Cortex



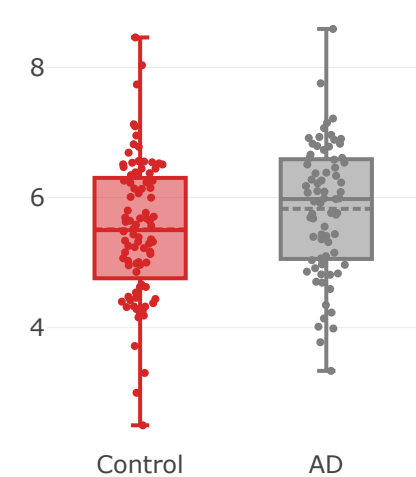
Hippocampus



Temporal Cortex



Frontal Cortex

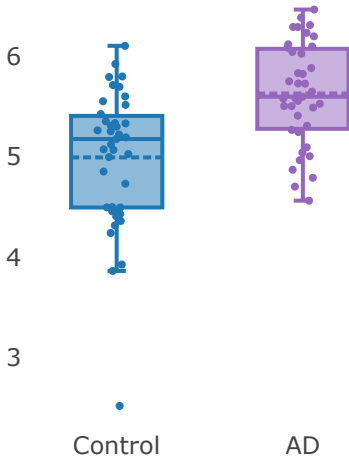


#### APLNR: apelin receptor

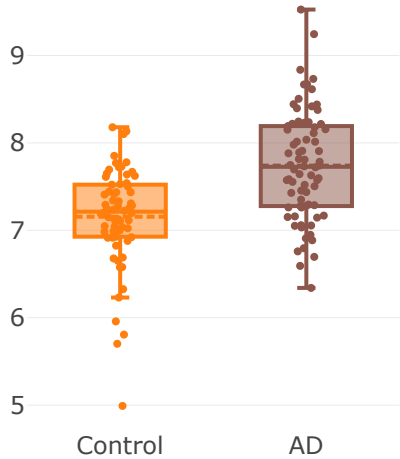
| Brain region      | log2 FoldChange | P-value              | FDR                  |
|-------------------|-----------------|----------------------|----------------------|
| Entorhinal Cortex | 1.35            | 1.55102406555381e-06 | 0.001                |
| Hippocampus       | 0.61            | 0.000274970506586381 | 0.01                 |
| Temporal Cortex   | 1.3             | 4.41832939908563e-06 | 0.000257847034554186 |
| Frontal Cortex    | 0.37            | 0.008                | 0.043                |

Cross-platform nomalized expression level of *TGFB<sup>R</sup>3*

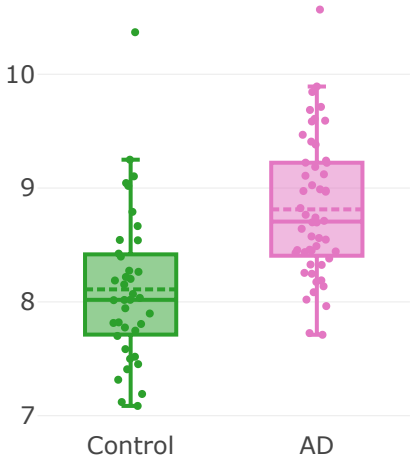
Entorhinal Cortex



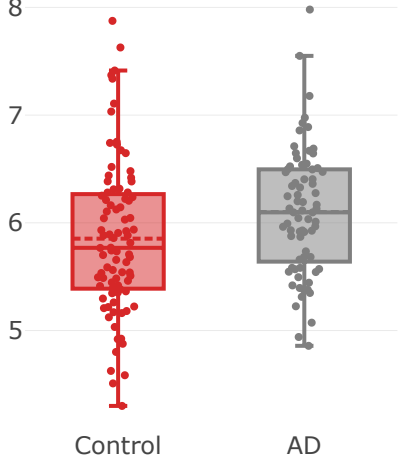
Hippocampus



Temporal Cortex



Frontal Cortex

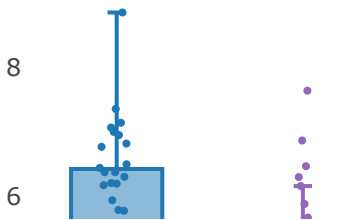


TGFB<sup>R</sup>3: transforming growth factor beta receptor III

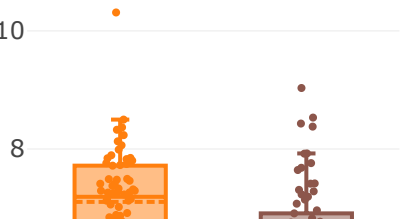
| Brain region      | log2 FoldChange | P-value              | FDR                  |
|-------------------|-----------------|----------------------|----------------------|
| Entorhinal Cortex | 0.58            | 5.95205321927057e-05 | 0.004                |
| Hippocampus       | 0.58            | 1.52180006150554e-07 | 0.000248281680034629 |
| Temporal Cortex   | 0.72            | 8.06518694047878e-07 | 9.74438406519565e-05 |
| Frontal Cortex    | 0.37            | 0.000103513088125332 | 0.003                |

Cross-platform nomalized expression level of *PSMD8*

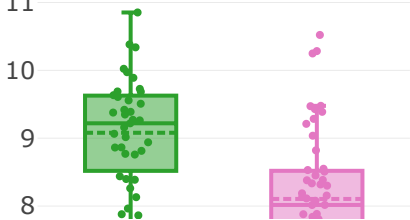
Entorhinal Cortex



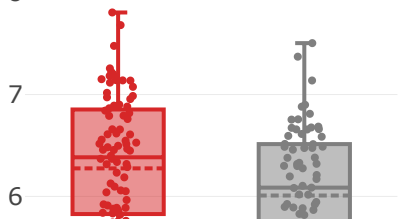
Hippocampus

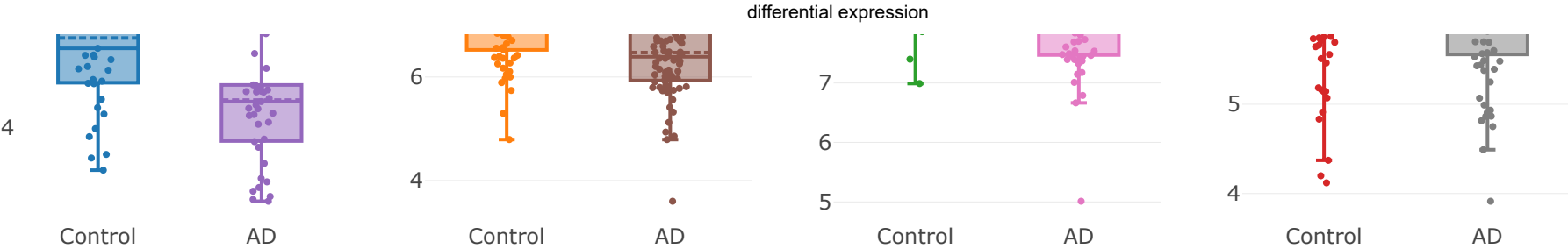


Temporal Cortex



Frontal Cortex

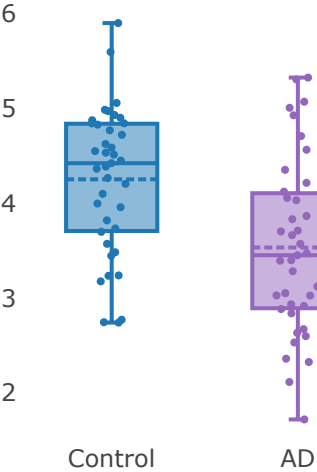




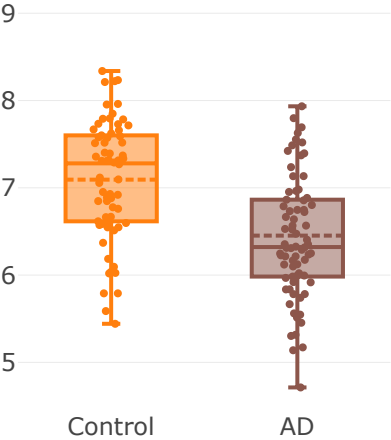
| PSMD8: "proteasome 26S subunit, non-ATPase 8" |                 |                      |                      |
|-----------------------------------------------|-----------------|----------------------|----------------------|
| Brain region                                  | log2 FoldChange | P-value              | FDR                  |
| Entorhinal Cortex                             | -1.13           | 7.08613428504574e-05 | 0.004                |
| Hippocampus                                   | -0.69           | 1.5440648169472e-05  | 0.002                |
| Temporal Cortex                               | -0.98           | 2.89153482123267e-06 | 0.000198744826712725 |
| Frontal Cortex                                | -0.22           | 0.006                | 0.035                |

Cross-platform nomalized expression level of *FABP3*

Entorhinal Cortex



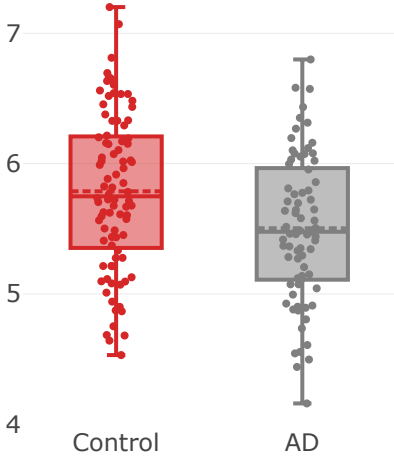
Hippocampus



Temporal Cortex



Frontal Cortex

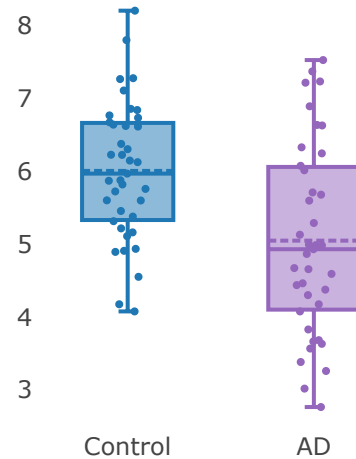


| FABP3: fatty acid binding protein 3 |                 |                      |       |
|-------------------------------------|-----------------|----------------------|-------|
| Brain region                        | log2 FoldChange | P-value              | FDR   |
| Entorhinal Cortex                   | -0.74           | 0.000218006097241711 | 0.007 |

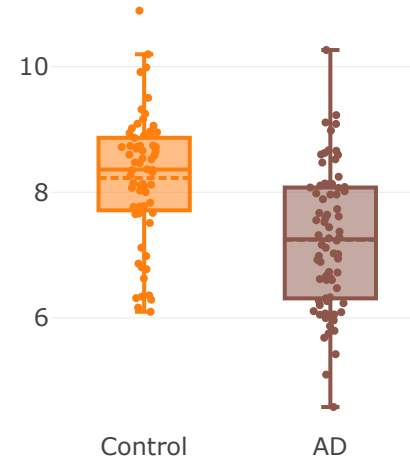
|                 |       |                      |                      |
|-----------------|-------|----------------------|----------------------|
| Hippocampus     | -0.61 | 3.35952894470111e-06 | 0.001                |
| Temporal Cortex | -0.81 | 1.18847750804907e-05 | 0.000462967371838259 |
| Frontal Cortex  | -0.26 | 0.000382590683614315 | 0.006                |

### Cross-platform nomalized expression level of *CHGB*

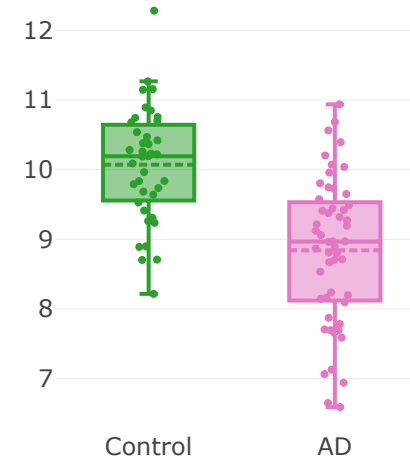
Entorhinal Cortex



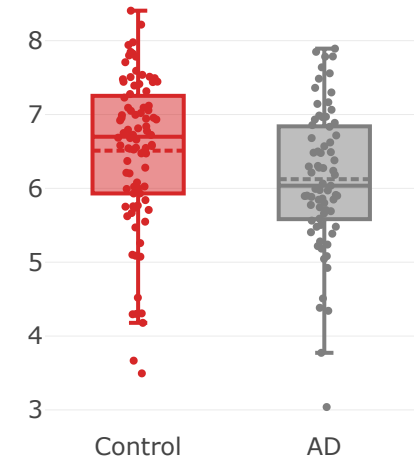
Hippocampus



Temporal Cortex



Frontal Cortex



### CHGB: chromogranin B

| Brain region      | log2 FoldChange | P-value              | FDR                 |
|-------------------|-----------------|----------------------|---------------------|
| Entorhinal Cortex | -1              | 0.000177367183036354 | 0.006               |
| Hippocampus       | -0.92           | 1.39557733340001e-06 | 0.001               |
| Temporal Cortex   | -1.25           | 1.76802834639966e-08 | 1.6243831713245e-05 |
| Frontal Cortex    | -0.48           | 0.000298806205859076 | 0.005               |

### Cross-platform nomalized expression level of *CXCR4*

Entorhinal Cortex



Hippocampus

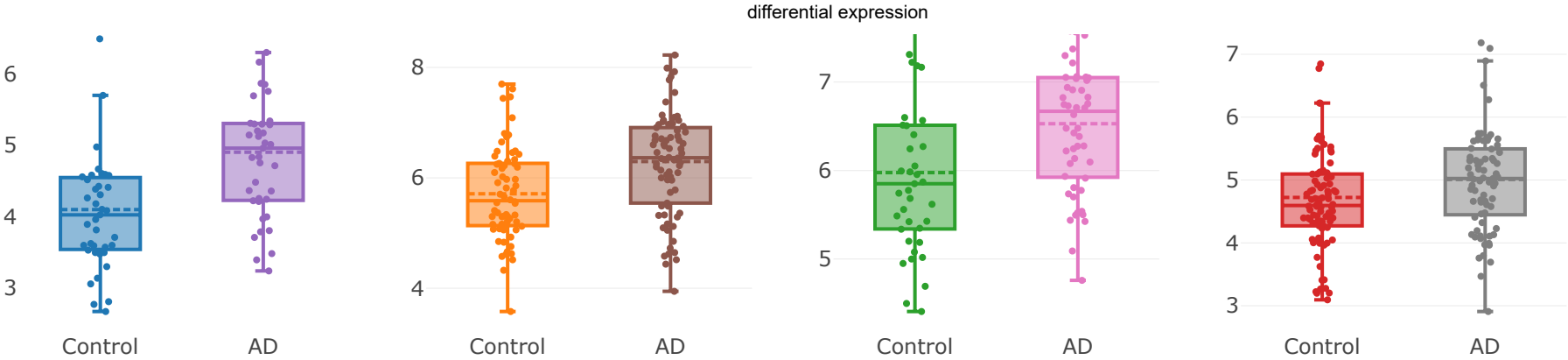


Temporal Cortex



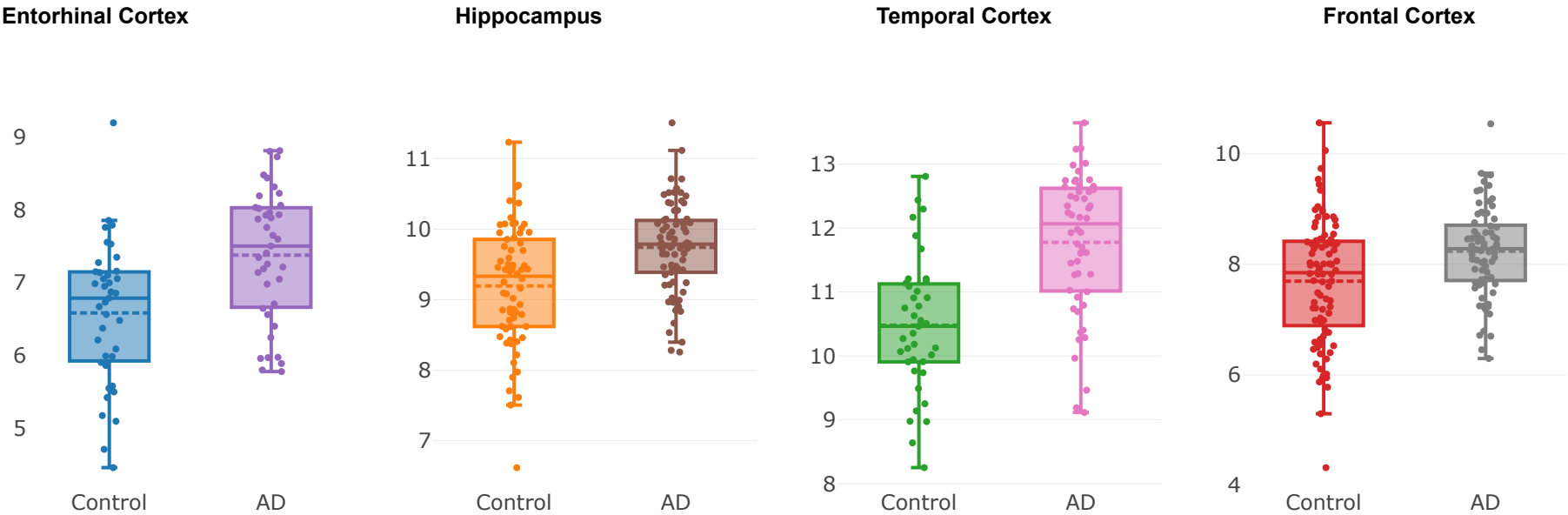
Frontal Cortex





| CXCR4: C-X-C motif chemokine receptor 4 |                 |                      |       |
|-----------------------------------------|-----------------|----------------------|-------|
| Brain region                            | log2 FoldChange | P-value              | FDR   |
| Entorhinal Cortex                       | 0.8             | 0.00032567084854634  | 0.008 |
| Hippocampus                             | 0.56            | 0.001                | 0.017 |
| Temporal Cortex                         | 0.55            | 0.003                | 0.021 |
| Frontal Cortex                          | 0.5             | 3.79196451084915e-05 | 0.002 |

Cross-platform nomalized expression level of *GFAP*

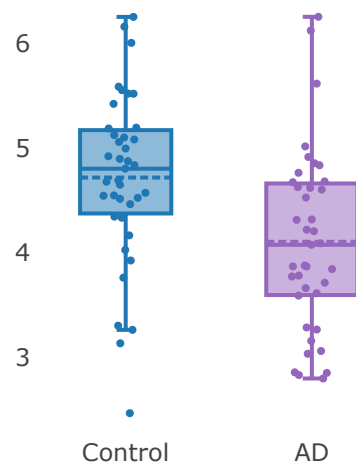


## GFAP: glial fibrillary acidic protein

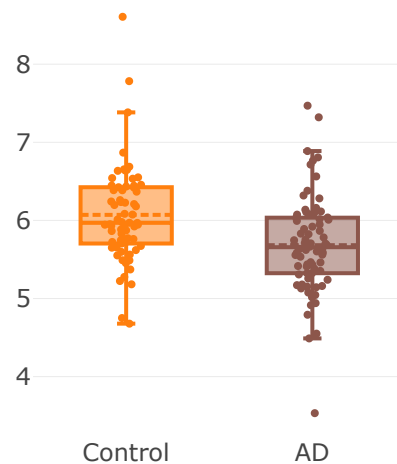
| Brain region      | log2 FoldChange | P-value              | FDR                  |
|-------------------|-----------------|----------------------|----------------------|
| Entorhinal Cortex | 0.78            | 0.00039348554547264  | 0.009                |
| Hippocampus       | 0.49            | 0.000209885493635492 | 0.008                |
| Temporal Cortex   | 1.3             | 1.17405837683712e-07 | 3.61934563091175e-05 |
| Frontal Cortex    | 0.61            | 1.14510423722581e-06 | 0.000226920482395707 |

Cross-platform nomalized expression level of *FGF12*

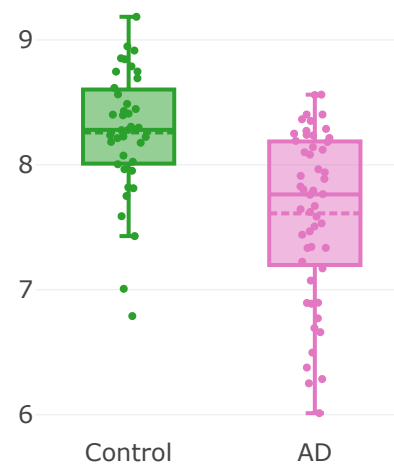
Entorhinal Cortex



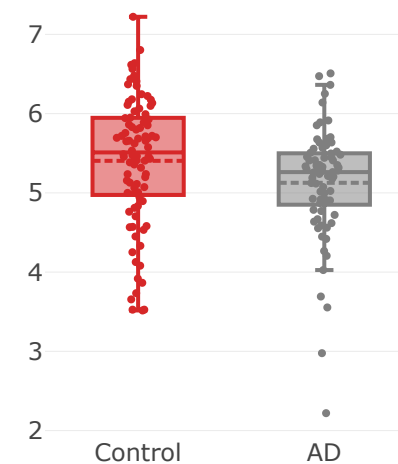
Hippocampus



Temporal Cortex



Frontal Cortex



## FGF12: fibroblast growth factor 12

| Brain region      | log2 FoldChange | P-value              | FDR                 |
|-------------------|-----------------|----------------------|---------------------|
| Entorhinal Cortex | -0.66           | 0.001                | 0.014               |
| Hippocampus       | -0.35           | 0.002                | 0.029               |
| Temporal Cortex   | -0.66           | 1.97578904717613e-06 | 0.00016166972282846 |
| Frontal Cortex    | -0.39           | 0.000485442583968057 | 0.007               |

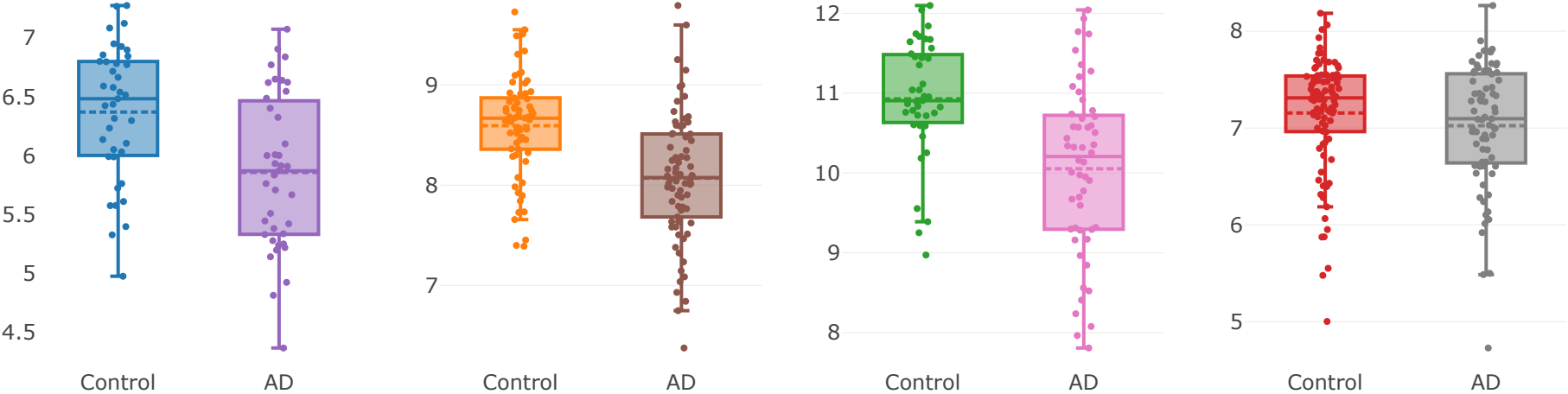
Cross-platform nomalized expression level of *UCHL1*

Entorhinal Cortex

Hippocampus

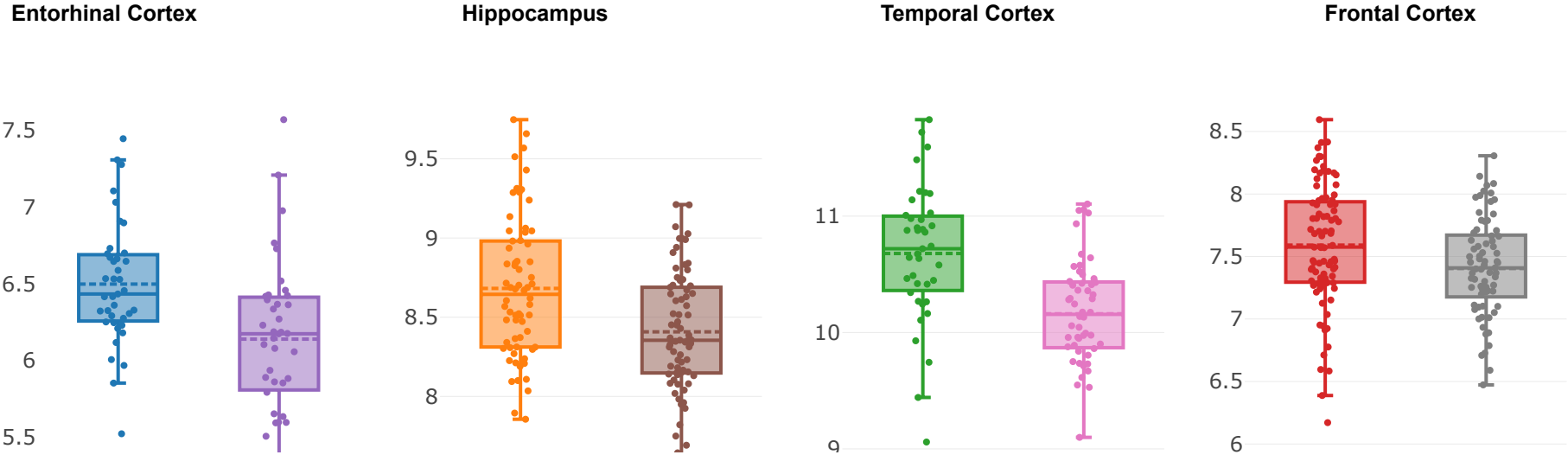
Temporal Cortex

Frontal Cortex



| UCHL1: ubiquitin C-terminal hydrolase L1 |                 |                      |                      |
|------------------------------------------|-----------------|----------------------|----------------------|
| Brain region                             | log2 FoldChange | P-value              | FDR                  |
| Entorhinal Cortex                        | -0.51           | 0.000489141797544756 | 0.01                 |
| Hippocampus                              | -0.48           | 4.6483929886917e-06  | 0.001                |
| Temporal Cortex                          | -0.91           | 1.33658296967844e-05 | 0.000499281536861764 |
| Frontal Cortex                           | -0.23           | 0.007                | 0.039                |

Cross-platform nomalized expression level of COX5B



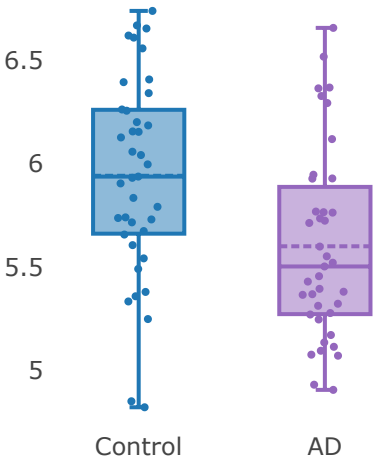


COX5B: cytochrome c oxidase subunit 5B

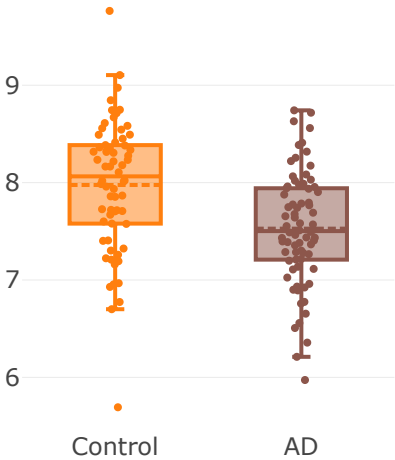
| Brain region      | log2 FoldChange | P-value              | FDR                  |
|-------------------|-----------------|----------------------|----------------------|
| Entorhinal Cortex | -0.41           | 0.00014486048091775  | 0.006                |
| Hippocampus       | -0.26           | 0.001                | 0.015                |
| Temporal Cortex   | -0.53           | 1.15746719453256e-05 | 0.000456232599630113 |
| Frontal Cortex    | -0.14           | 0.009                | 0.046                |

Cross-platform nomalized expression level of UBE2N

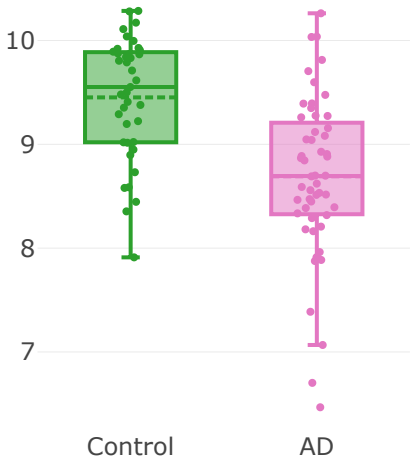
Entorhinal Cortex



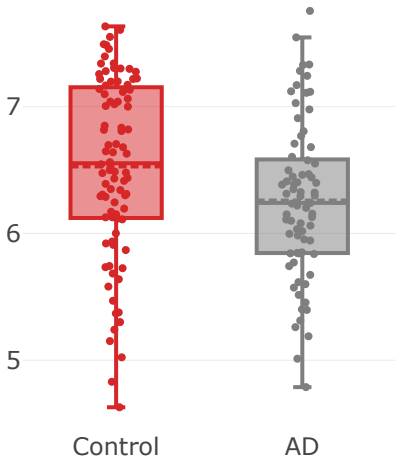
Hippocampus



Temporal Cortex



Frontal Cortex

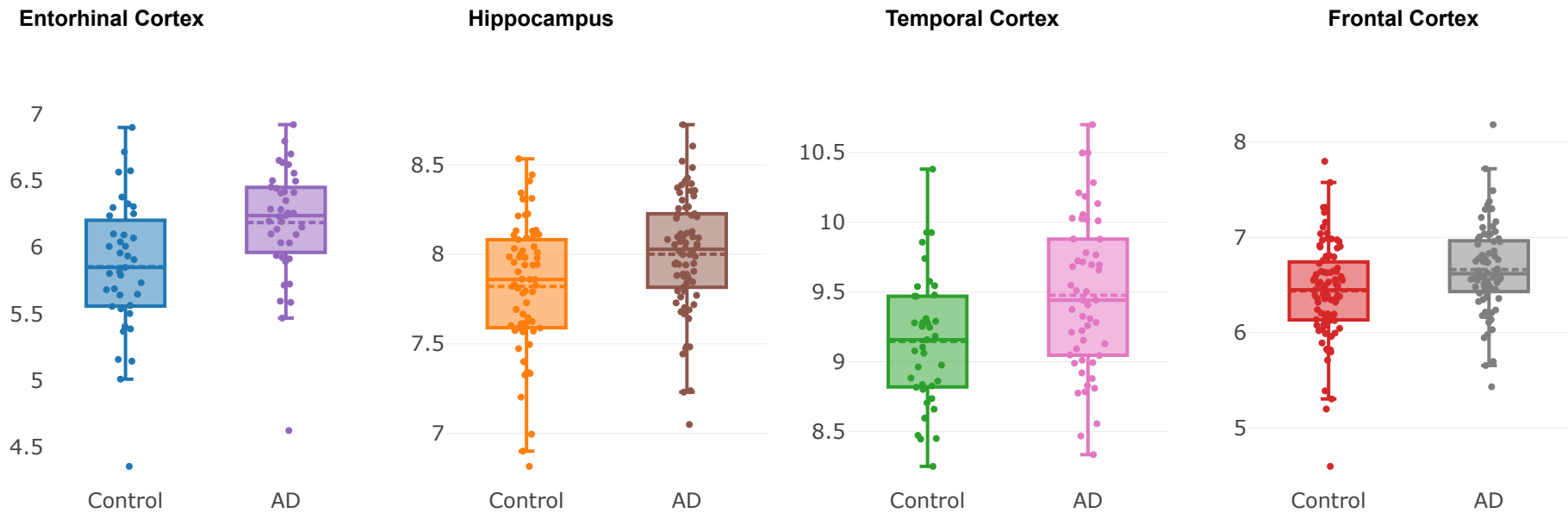


UBE2N: ubiquitin conjugating enzyme E2 N

| Brain region      | log2 FoldChange | P-value              | FDR                 |
|-------------------|-----------------|----------------------|---------------------|
| Entorhinal Cortex | -0.36           | 0.002                | 0.02                |
| Hippocampus       | -0.39           | 0.000386240742900048 | 0.012               |
| Temporal Cortex   | -0.78           | 7.2811263686117e-07  | 9.1546844951691e-05 |
| Frontal Cortex    | -0.39           | 1.44367975699684e-05 | 0.001               |

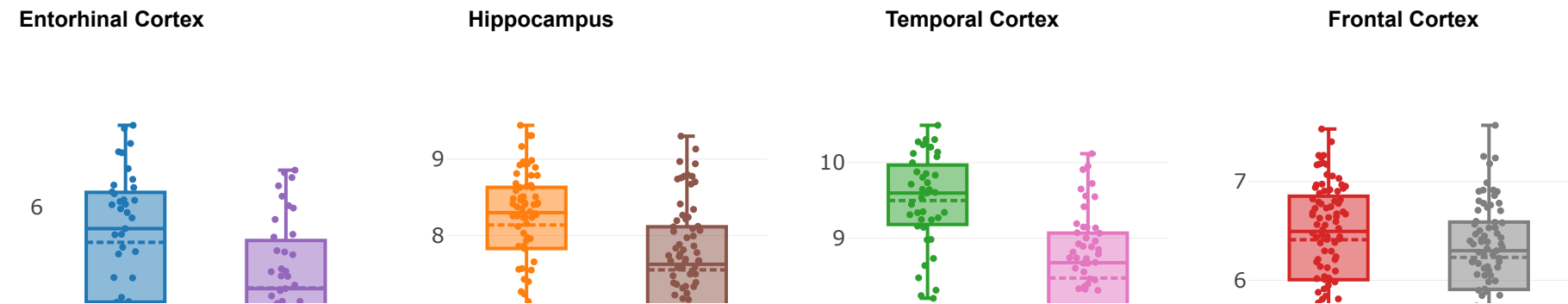


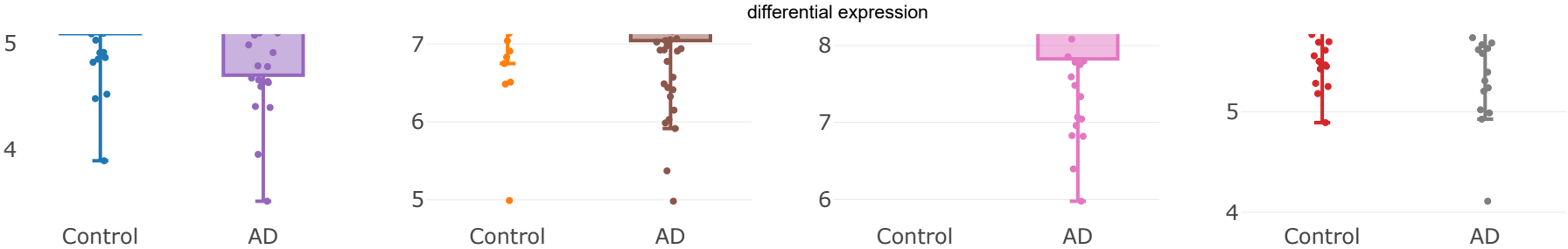
Cross-platform nomalized expression level of *MAP3K5*



| MAP3K5: mitogen-activated protein kinase kinase kinase 5 |                 |         |       |
|----------------------------------------------------------|-----------------|---------|-------|
| Brain region                                             | log2 FoldChange | P-value | FDR   |
| Entorhinal Cortex                                        | 0.3             | 0.008   | 0.05  |
| Hippocampus                                              | 0.19            | 0.003   | 0.04  |
| Temporal Cortex                                          | 0.35            | 0.003   | 0.019 |
| Frontal Cortex                                           | 0.19            | 0.006   | 0.035 |

Cross-platform nomalized expression level of *SYP*

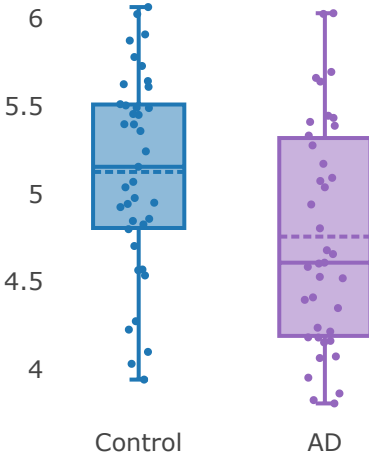




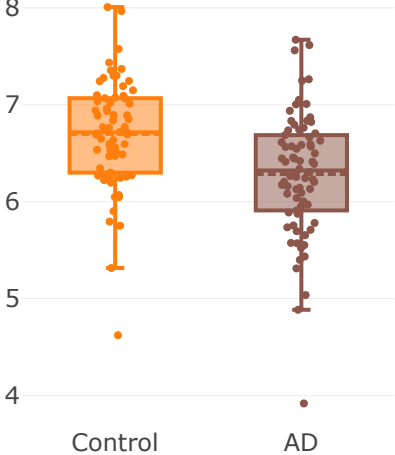
| SYP: synaptophysin |                 |                      |                     |
|--------------------|-----------------|----------------------|---------------------|
| Brain region       | log2 FoldChange | P-value              | FDR                 |
| Entorhinal Cortex  | -0.43           | 0.007                | 0.047               |
| Hippocampus        | -0.55           | 0.000201142983302657 | 0.008               |
| Temporal Cortex    | -1.05           | 2.73987979433049e-08 | 1.6243831713245e-05 |
| Frontal Cortex     | -0.27           | 0.001                | 0.011               |

Cross-platform nomalized expression level of CD200

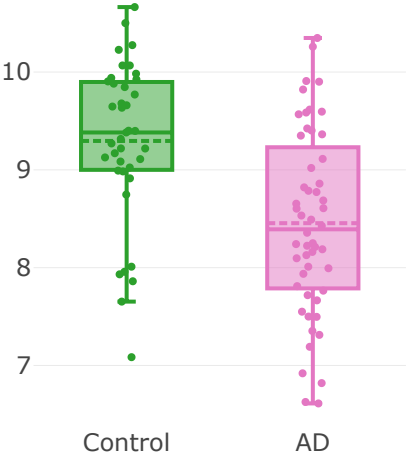
Entorhinal Cortex



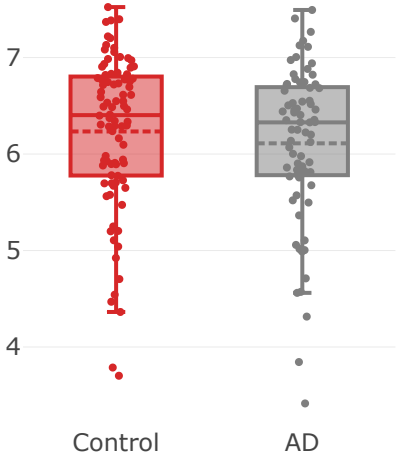
Hippocampus



Temporal Cortex



Frontal Cortex

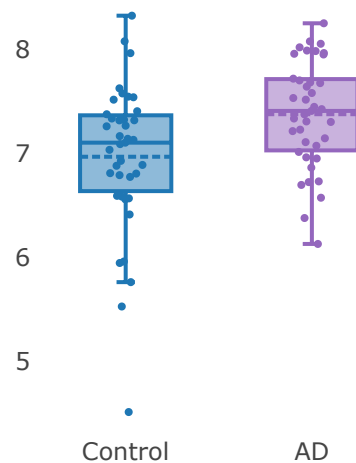


| CD200: CD200 molecule |                 |         |       |
|-----------------------|-----------------|---------|-------|
| Brain region          | log2 FoldChange | P-value | FDR   |
| Entorhinal Cortex     | -0.38           | 0.007   | 0.048 |

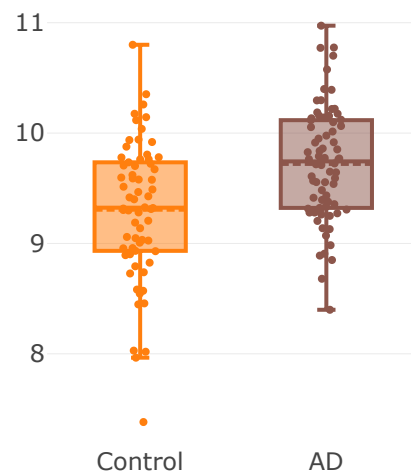
|                 |       |                      |                      |
|-----------------|-------|----------------------|----------------------|
| Hippocampus     | -0.39 | 0.000382428570958962 | 0.012                |
| Temporal Cortex | -0.9  | 3.88440961223038e-06 | 0.000239332249614115 |
| Frontal Cortex  | -0.28 | 0.008                | 0.041                |

### Cross-platform nomalized expression level of *GJA1*

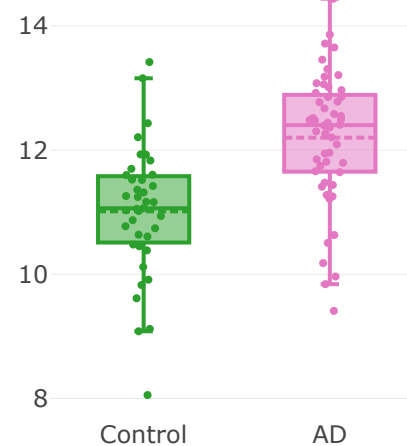
Entorhinal Cortex



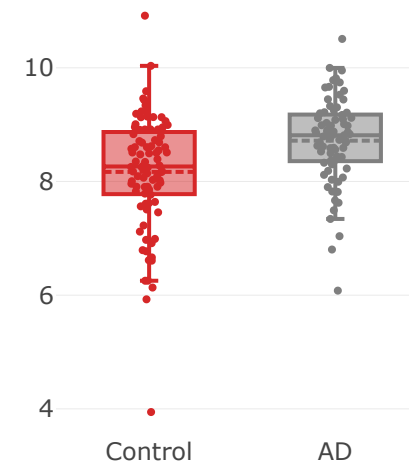
Hippocampus



Temporal Cortex



Frontal Cortex



### GJA1: gap junction protein alpha 1

| Brain region      | log2 FoldChange | P-value              | FDR                 |
|-------------------|-----------------|----------------------|---------------------|
| Entorhinal Cortex | 0.37            | 0.011                | 0.064               |
| Hippocampus       | 0.44            | 2.20305228369346e-05 | 0.002               |
| Temporal Cortex   | 1.21            | 3.70142615854669e-07 | 6.4795329052601e-05 |
| Frontal Cortex    | 0.44            | 0.001                | 0.009               |

Note:

All differential expression results were adjusted for age and sex of samples.

Dataset of Entorhinal Cortex: GSE26927, GSE26972, GSE48350, GSE5281.

Dataset of Hippocampus: GSE28146, GSE29378, GSE36980, GSE48350, GSE5281.

Dataset of Temporal Cortex: GSE29652, GSE36980, GSE37263, GSE5281.

Dataset of Frontal Cortex: GSE12685, GSE36980, GSE48350, GSE5281, GSE53890, GSE66333.

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