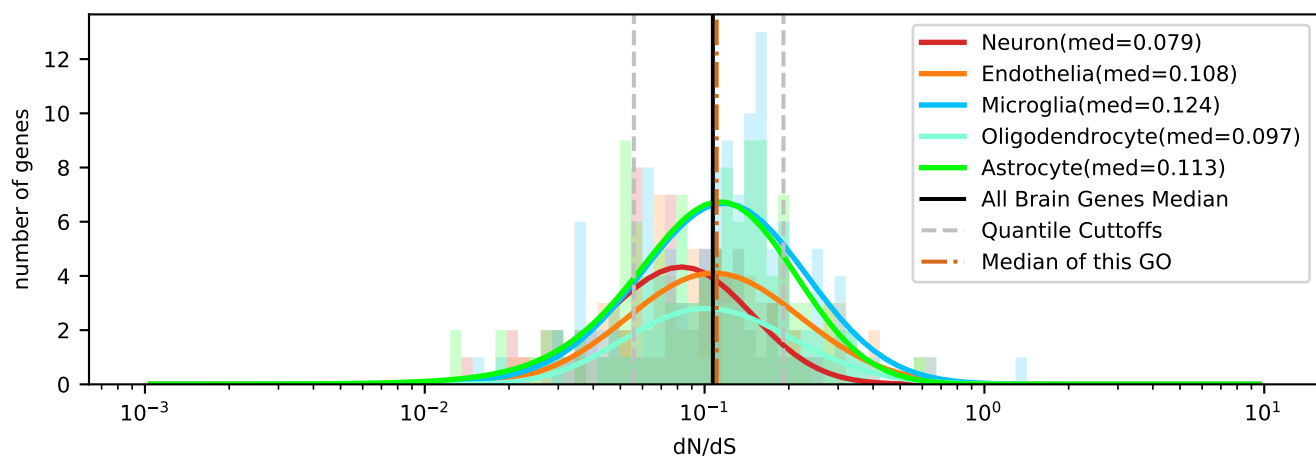


Five Celltypes Distribution of Average dN/dS Scores of Genes Related to small molecule metabolic process



| | < cutoff | other genes | Total |
|------------------|------------|--------------|-------|
| In Astrocyte | 25 (23.11) | 96 (97.89) | 121 |
| Not IN Astrocyte | 60 (61.89) | 264 (262.11) | 324 |
| Total | 85 | 360 | 445 |

chi2: 0.141, p: 0.7068504532, OR: 1.14583

| | > cutoff | other genes | Total |
|------------------|------------|--------------|-------|
| In Astrocyte | 20 (19.58) | 101 (101.42) | 121 |
| Not IN Astrocyte | 52 (52.42) | 272 (271.58) | 324 |
| Total | 72 | 373 | 445 |

chi2: 0.001, p: 0.9821056101, OR: 1.03580

| | < cutoff | other genes | Total |
|------------------|------------|--------------|-------|
| In Microglia | 19 (23.69) | 105 (100.31) | 124 |
| Not IN Microglia | 66 (61.31) | 255 (259.69) | 321 |
| Total | 85 | 360 | 445 |

chi2: 1.267, p: 0.2602600939, OR: 0.69913

| | > cutoff | other genes | Total |
|------------------|------------|--------------|-------|
| In Microglia | 21 (20.06) | 103 (103.94) | 124 |
| Not IN Microglia | 51 (51.94) | 270 (269.06) | 321 |
| Total | 72 | 373 | 445 |

chi2: 0.016, p: 0.9001341616, OR: 1.07938

| | < cutoff | other genes | Total |
|------------------------|------------|--------------|-------|
| In Oligodendrocyte | 7 (9.74) | 44 (41.26) | 51 |
| Not IN Oligodendrocyte | 78 (75.26) | 316 (318.74) | 394 |
| Total | 85 | 360 | 445 |

chi2: 0.720, p: 0.3961082899, OR: 0.64452

| | > cutoff | other genes | Total |
|------------------------|------------|--------------|-------|
| In Oligodendrocyte | 10 (8.25) | 41 (42.75) | 51 |
| Not IN Oligodendrocyte | 62 (63.75) | 332 (330.25) | 394 |
| Total | 72 | 373 | 445 |

chi2: 0.254, p: 0.6139516533, OR: 1.30606

| | < cutoff | other genes | Total |
|---------------|------------|--------------|-------|
| In Neuron | 22 (13.56) | 49 (57.44) | 71 |
| Not IN Neuron | 63 (71.44) | 311 (302.56) | 374 |
| Total | 85 | 360 | 445 |

chi2: 6.834, p: 0.0089440326, OR: 2.21639

| | > cutoff | other genes | Total |
|---------------|------------|--------------|-------|
| In Neuron | 5 (11.49) | 66 (59.51) | 71 |
| Not IN Neuron | 67 (60.51) | 307 (313.49) | 374 |
| Total | 72 | 373 | 445 |

chi2: 4.430, p: 0.0353090354, OR: 0.34713

| | < cutoff | other genes | Total |
|-------------------|------------|--------------|-------|
| In Endothelia | 12 (14.90) | 66 (63.10) | 78 |
| Not IN Endothelia | 73 (70.10) | 294 (296.90) | 367 |
| Total | 85 | 360 | 445 |

chi2: 0.579, p: 0.4467385056, OR: 0.73225

| | > cutoff | other genes | Total |
|-------------------|------------|--------------|-------|
| In Endothelia | 16 (12.62) | 62 (65.38) | 78 |
| Not IN Endothelia | 56 (59.38) | 311 (307.62) | 367 |
| Total | 72 | 373 | 445 |

chi2: 0.951, p: 0.3295680522, OR: 1.43318