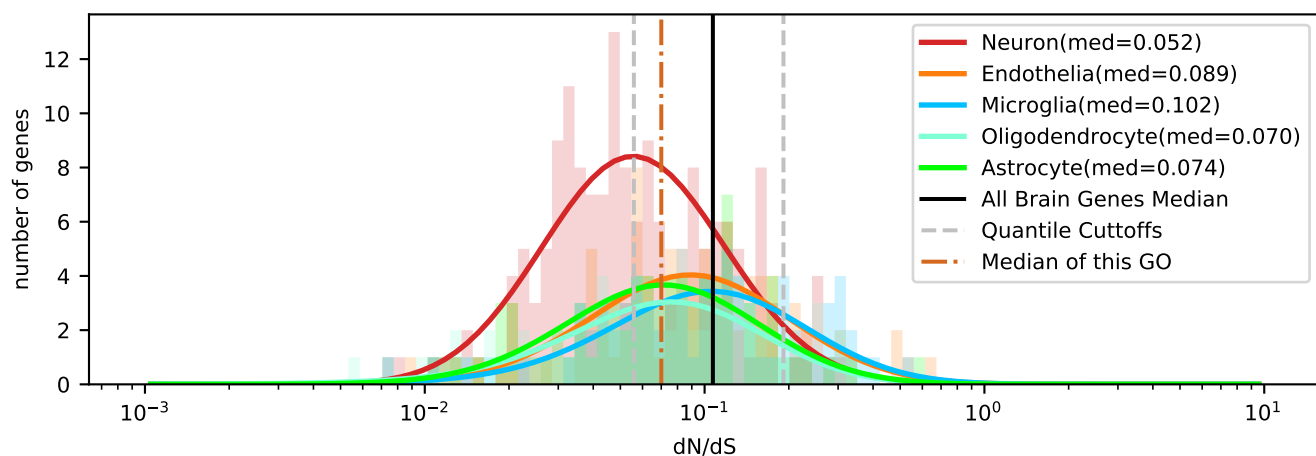


Five Celltypes Distribution of Average dN/dS Scores of Genes Related to cell morphogenesis



| | < cutoff | other genes | Total |
|------------------|--------------|--------------|-------|
| In Astrocyte | 29 (31.27) | 50 (47.73) | 79 |
| Not IN Astrocyte | 161 (158.73) | 240 (242.27) | 401 |
| Total | 190 | 290 | 480 |

chi2: 0.199, p: 0.6557877332, OR: 0.86460

| | > cutoff | other genes | Total |
|------------------|------------|--------------|-------|
| In Astrocyte | 5 (8.56) | 74 (70.44) | 79 |
| Not IN Astrocyte | 47 (43.44) | 354 (357.56) | 401 |
| Total | 52 | 428 | 480 |

chi2: 1.467, p: 0.2257957626, OR: 0.50891

| | < cutoff | other genes | Total |
|------------------|--------------|--------------|-------|
| In Microglia | 21 (30.08) | 55 (45.92) | 76 |
| Not IN Microglia | 169 (159.92) | 235 (244.08) | 404 |
| Total | 190 | 290 | 480 |

chi2: 4.816, p: 0.0281962286, OR: 0.53093

| | > cutoff | other genes | Total |
|------------------|------------|--------------|-------|
| In Microglia | 18 (8.23) | 58 (67.77) | 76 |
| Not IN Microglia | 34 (43.77) | 370 (360.23) | 404 |
| Total | 52 | 428 | 480 |

chi2: 13.897, p: 0.0001930812, OR: 3.37728

| | < cutoff | other genes | Total |
|------------------------|--------------|--------------|-------|
| In Oligodendrocyte | 25 (26.52) | 42 (40.48) | 67 |
| Not IN Oligodendrocyte | 165 (163.48) | 248 (249.52) | 413 |
| Total | 190 | 290 | 480 |

chi2: 0.076, p: 0.7833669347, OR: 0.89466

| | > cutoff | other genes | Total |
|------------------------|------------|--------------|-------|
| In Oligodendrocyte | 7 (7.26) | 60 (59.74) | 67 |
| Not IN Oligodendrocyte | 45 (44.74) | 368 (368.26) | 413 |
| Total | 52 | 428 | 480 |

chi2: 0.010, p: 0.9184311982, OR: 0.95407

| | < cutoff | other genes | Total |
|---------------|-------------|--------------|-------|
| In Neuron | 92 (66.90) | 77 (102.10) | 169 |
| Not IN Neuron | 98 (123.10) | 213 (187.90) | 311 |
| Total | 190 | 290 | 480 |

chi2: 23.118, p: 0.0000015239, OR: 2.59687

| | > cutoff | other genes | Total |
|---------------|------------|--------------|-------|
| In Neuron | 9 (18.31) | 160 (150.69) | 169 |
| Not IN Neuron | 43 (33.69) | 268 (277.31) | 311 |
| Total | 52 | 428 | 480 |

chi2: 7.335, p: 0.0067613961, OR: 0.35058

| | < cutoff | other genes | Total |
|-------------------|--------------|--------------|-------|
| In Endothelia | 23 (35.23) | 66 (53.77) | 89 |
| Not IN Endothelia | 167 (154.77) | 224 (236.23) | 391 |
| Total | 190 | 290 | 480 |

chi2: 7.935, p: 0.0048491185, OR: 0.46743

| | > cutoff | other genes | Total |
|-------------------|------------|--------------|-------|
| In Endothelia | 13 (9.64) | 76 (79.36) | 89 |
| Not IN Endothelia | 39 (42.36) | 352 (348.64) | 391 |
| Total | 52 | 428 | 480 |

chi2: 1.167, p: 0.2800934155, OR: 1.54386