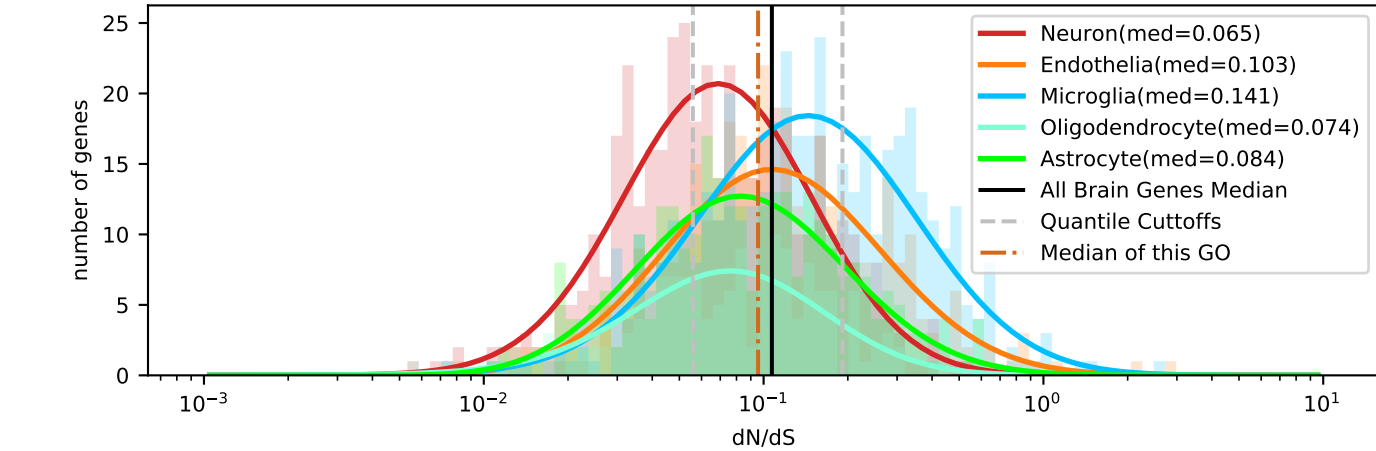


Five Celltypes Distribution of Average dN/dS Scores of Genes Related to signal transduction



	< cutoff	other genes	Total
In Astrocyte	89 (82.47)	200 (206.53)	289
Not IN Astrocyte	391 (397.53)	1002 (995.47)	1393
Total	480	1202	1682

chi2: 0.744, p: 0.3883403270, OR: 1.14038

	> cutoff	other genes	Total
In Astrocyte	49 (63.06)	240 (225.94)	289
Not IN Astrocyte	318 (303.94)	1075 (1089.06)	1393
Total	367	1315	1682

chi2: 4.502, p: 0.0338548671, OR: 0.69019

	< cutoff	other genes	Total
In Microglia	73 (127.85)	375 (320.15)	448
Not IN Microglia	407 (352.15)	827 (881.85)	1234
Total	480	1202	1682

chi2: 44.066, p: 0.0000000000, OR: 0.39555

	> cutoff	other genes	Total
In Microglia	170 (97.75)	278 (350.25)	448
Not IN Microglia	197 (269.25)	1037 (964.75)	1234
Total	367	1315	1682

chi2: 91.819, p: 0.0000000000, OR: 3.21897

	< cutoff	other genes	Total
In Oligodendrocyte	61 (45.66)	99 (114.34)	160
Not IN Oligodendrocyte	419 (434.34)	1103 (1087.66)	1522
Total	480	1202	1682

chi2: 7.459, p: 0.0063126683, OR: 1.62202

	> cutoff	other genes	Total
In Oligodendrocyte	16 (34.91)	144 (125.09)	160
Not IN Oligodendrocyte	351 (332.09)	1171 (1189.91)	1522
Total	367	1315	1682

chi2: 13.725, p: 0.0002116706, OR: 0.37069

	< cutoff	other genes	Total
In Neuron	185 (124.71)	252 (312.29)	437
Not IN Neuron	295 (355.29)	950 (889.71)	1245
Total	480	1202	1682

chi2: 54.195, p: 0.0000000000, OR: 2.36414

	> cutoff	other genes	Total
In Neuron	45 (95.35)	392 (341.65)	437
Not IN Neuron	322 (271.65)	923 (973.35)	1245
Total	367	1315	1682

chi2: 45.037, p: 0.0000000000, OR: 0.32906

	< cutoff	other genes	Total
In Endothelia	72 (99.31)	276 (248.69)	348
Not IN Endothelia	408 (380.69)	926 (953.31)	1334
Total	480	1202	1682

chi2: 12.770, p: 0.0003521614, OR: 0.59207

	> cutoff	other genes	Total
In Endothelia	87 (75.93)	261 (272.07)	348
Not IN Endothelia	280 (291.07)	1054 (1042.93)	1334
Total	367	1315	1682

chi2: 2.373, p: 0.1234849043, OR: 1.25476