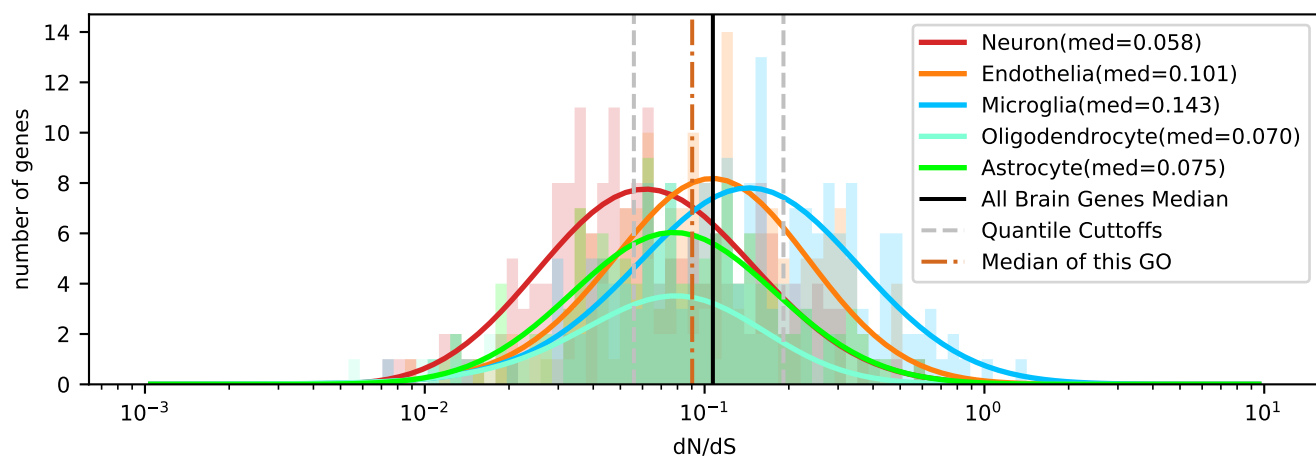


Five Celltypes Distribution of Average dN/dS Scores of Genes Related to locomotion



	< cutoff	other genes	Total
In Astrocyte	47 (41.51)	88 (93.49)	135
Not IN Astrocyte	187 (192.49)	439 (433.51)	626
Total	234	527	761

chi2: 1.052, p: 0.3049349191, OR: 1.25383

	> cutoff	other genes	Total
In Astrocyte	18 (29.63)	117 (105.37)	135
Not IN Astrocyte	149 (137.37)	477 (488.63)	626
Total	167	594	761

chi2: 6.507, p: 0.0107450042, OR: 0.49251

	< cutoff	other genes	Total
In Microglia	33 (59.65)	161 (134.35)	194
Not IN Microglia	201 (174.35)	366 (392.65)	567
Total	234	527	761

chi2: 22.222, p: 0.0000024284, OR: 0.37323

	> cutoff	other genes	Total
In Microglia	74 (42.57)	120 (151.43)	194
Not IN Microglia	93 (124.43)	474 (442.57)	567
Total	167	594	761

chi2: 38.632, p: 0.0000000005, OR: 3.14301

	< cutoff	other genes	Total
In Oligodendrocyte	27 (22.45)	46 (50.55)	73
Not IN Oligodendrocyte	207 (211.55)	481 (476.45)	688
Total	234	527	761

chi2: 1.169, p: 0.2796057439, OR: 1.36389

	> cutoff	other genes	Total
In Oligodendrocyte	7 (16.02)	66 (56.98)	73
Not IN Oligodendrocyte	160 (150.98)	528 (537.02)	688
Total	167	594	761

chi2: 6.421, p: 0.0112791030, OR: 0.35000

	< cutoff	other genes	Total
In Neuron	86 (55.35)	94 (124.65)	180
Not IN Neuron	148 (178.65)	433 (402.35)	581
Total	234	527	761

chi2: 31.067, p: 0.0000000249, OR: 2.67668

	> cutoff	other genes	Total
In Neuron	23 (39.50)	157 (140.50)	180
Not IN Neuron	144 (127.50)	437 (453.50)	581
Total	167	594	761

chi2: 10.876, p: 0.0009740676, OR: 0.44458

	< cutoff	other genes	Total
In Endothelia	41 (55.04)	138 (123.96)	179
Not IN Endothelia	193 (178.96)	389 (403.04)	582
Total	234	527	761

chi2: 6.290, p: 0.0121435568, OR: 0.59882

	> cutoff	other genes	Total
In Endothelia	45 (39.28)	134 (139.72)	179
Not IN Endothelia	122 (127.72)	460 (454.28)	582
Total	167	594	761

chi2: 1.161, p: 0.2811570831, OR: 1.26621