Table 1: Mono\_chu - Hunter: E-values for each group

| group | median | Q1 | Q3 | mean | sd | min | max |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Iflaviridae | 54.5867002 | 34.3496805 | 59.0041124 | 45.9490399 | 22.3781566 | 10.806875402 | 69.5421181 |
| Flaviviridae | 41.0909135 | 23.7230819 | 60.0154727 | 42.0789713 | 25.1145965 | 3.000000000 | 104.7619539 |
| Hantaviridae | 38.7033348 | 27.8791807 | 51.9027290 | 38.0618907 | 15.1807587 | 14.116906641 | 55.4571746 |
| Astroviridae | 37.0114410 | 29.9393022 | 40.6716204 | 35.4755890 | 16.6043575 | 9.060480747 | 62.4894550 |
| Discoviridae | 33.7033348 | 33.7033348 | 33.7033348 | 33.7033348 | NA | 33.703334810 | 33.7033348 |
| Paramyxoviridae | 31.2418454 | 21.5492845 | 38.1029303 | 37.4299099 | 23.6441246 | 0.698970004 | 90.0814455 |
| Betaflexiviridae | 27.2204035 | 14.3038098 | 43.2899610 | 29.3223794 | 29.0432555 | 1.387216143 | 59.3595186 |
| Bromoviridae | 26.2941901 | 14.2580194 | 38.3303608 | 26.2941901 | 34.0434317 | 2.221848750 | 50.3665315 |
| Sedoreoviridae | 25.4546664 | 18.2358095 | 26.0829470 | 20.5747424 | 12.6117799 | 0.008773924 | 35.4111683 |
| unclassified Kitrinoviricota | 25.1360826 | 25.1360826 | 25.1360826 | 25.1360826 | NA | 25.136082623 | 25.1360826 |
| Picobirnaviridae | 22.7607456 | 14.8054576 | 30.8120125 | 22.8567245 | 9.4660936 | 14.392544977 | 31.5128616 |
| Tobaniviridae | 22.3605135 | 21.4723701 | 27.5497509 | 21.1187914 | 10.3173083 | 3.866461092 | 30.3448616 |
| Potyviridae | 22.1878383 | 5.4136076 | 33.1451532 | 25.9707695 | 26.7371507 | 1.698970004 | 73.1301818 |
| Bornaviridae | 20.6925040 | 19.6143827 | 21.1610825 | 19.2541761 | 4.1861132 | 10.071092310 | 22.4647059 |
| Chrysoviridae | 18.6252416 | 17.3833522 | 19.8671310 | 18.6252416 | 3.5125937 | 16.141462802 | 21.1090204 |
| Rhabdoviridae | 18.3853575 | 11.1760951 | 29.7982432 | 26.8450820 | 30.1036520 | 0.004364805 | 131.7351822 |
| Botourmiaviridae | 17.5444745 | 15.6267352 | 19.9564606 | 18.0387213 | 6.0439750 | 11.176525771 | 25.8894103 |
| Nodaviridae | 16.6968039 | 16.6968039 | 16.6968039 | 16.6968039 | NA | 16.696803943 | 16.6968039 |
| Phenuiviridae | 15.3254312 | 7.5569080 | 26.4277673 | 18.6647754 | 16.7312456 | 1.443697499 | 56.4534573 |
| Orthomyxoviridae | 14.5046508 | 12.4443504 | 16.5649512 | 14.5046508 | 5.8274096 | 10.384049948 | 18.6252517 |
| Coronaviridae | 14.4894550 | 10.8104379 | 19.2474793 | 29.5770631 | 45.5712021 | 0.698970004 | 131.7351822 |
| Picornaviridae | 13.8696662 | 3.2401267 | 56.8075618 | 28.7379648 | 32.0373080 | 0.283996656 | 85.8664611 |
| Nyamiviridae | 13.5985995 | 13.5985995 | 13.5985995 | 13.5985995 | NA | 13.598599459 | 13.5985995 |
| Virgaviridae | 12.3077785 | 0.4206527 | 24.4498069 | 12.5626812 | 14.0400118 | 0.387216143 | 25.2479516 |
| Chuviridae | 12.0956043 | 8.8859767 | 14.6946828 | 11.4143613 | 5.9520328 | 0.327902142 | 20.0952845 |
| Endornaviridae | 11.3585259 | 10.3477537 | 14.5301780 | 11.6624687 | 5.5162479 | 3.591760035 | 18.4841262 |
| unclassified | 11.3276762 | 4.6910190 | 18.6999418 | 15.2823673 | 16.0315999 | 0.022276395 | 85.0236500 |
| Lispiviridae | 9.7495800 | 8.4257018 | 19.2157583 | 15.1777801 | 11.7696363 | 7.101823517 | 28.6819367 |
| Totiviridae | 9.0299760 | 2.8012561 | 17.1756657 | 11.0241009 | 9.6922536 | 0.769551079 | 27.2168113 |
| Dicistroviridae | 8.8296590 | 6.8705858 | 16.3457514 | 14.3866782 | 15.9628786 | 2.045757491 | 37.8416375 |
| Mymonaviridae | 8.4202164 | 4.3740593 | 14.4411987 | 9.7367665 | 10.1314991 | 0.327902142 | 20.4621809 |
| Partitiviridae | 8.2956850 | 6.0399014 | 10.9059042 | 9.7285811 | 7.5030896 | 0.958607315 | 39.4111683 |
| Tombusviridae | 7.4962093 | 6.2547188 | 17.6829378 | 13.4597013 | 12.5409974 | 5.013228266 | 27.8696662 |
| Mitoviridae | 7.1398604 | 6.7833850 | 8.2857431 | 7.9292678 | 2.4864093 | 5.886056648 | 11.5512937 |
| unclassified Pisuviricota | 6.6675615 | 5.9592993 | 6.9217179 | 6.3648243 | 0.9974902 | 5.251037139 | 7.1758742 |
| Permutotetraviridae | 5.5199931 | 5.5199931 | 5.5199931 | 5.5199931 | NA | 5.519993057 | 5.5199931 |
| Amalgaviridae | 4.0073362 | 3.2197566 | 6.2604727 | 5.4728931 | 5.0216792 | 1.148741651 | 12.7281584 |
| Secoviridae | 2.5228787 | 2.5228787 | 2.5228787 | 2.5228787 | NA | 2.522878745 | 2.5228787 |
| Fusariviridae | 1.7958800 | 1.7958800 | 1.7958800 | 1.7958800 | NA | 1.795880017 | 1.7958800 |
| Tymoviridae | 1.5686362 | 1.1962725 | 17.5987842 | 12.0071590 | 18.7287068 | 0.823908741 | 33.6289321 |
| Closteroviridae | 1.1674911 | 0.3467875 | 1.9586073 | 2.5781668 | 3.7230806 | 0.292429824 | 9.1255182 |
| Nairoviridae | 0.9348331 | 0.7684466 | 1.1012197 | 0.9348331 | 0.4706123 | 0.602059991 | 1.2676062 |
| Mesoniviridae | 0.8578975 | 0.5709471 | 1.1448479 | 0.8578975 | 0.8116183 | 0.283996656 | 1.4317983 |
| Spinareoviridae | 0.7447275 | 0.6003297 | 1.2011524 | 0.9527456 | 0.6272492 | 0.455931956 | 1.6575773 |
| Myriaviridae | 0.6197888 | 0.6197888 | 0.6197888 | 0.6197888 | NA | 0.619788758 | 0.6197888 |
| Xinmoviridae | 0.6020600 | 0.6020600 | 0.6020600 | 0.6020600 | NA | 0.602059991 | 0.6020600 |
| Alphaflexiviridae | 0.5376020 | 0.5376020 | 0.5376020 | 0.5376020 | NA | 0.537602002 | 0.5376020 |