Table 1: Flavi Data - RNA viruses (Hunter): E-values for each group

| group | median | Q1 | Q3 | mean | sd | max | min |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Flaviviridae | 31.37986395 | 18.78509157 | 97.46189831 | 63.02381324 | 61.99263315 | 0.193820026 | 179.89962945 |
| Arteriviridae | 29.28567024 | 18.47519719 | 34.04947255 | 28.68168765 | 13.34673981 | 13.841637508 | 52.59516628 |
| Hantaviridae | 28.04817696 | 28.04817696 | 28.04817696 | 28.04817696 | NA | 28.048176965 | 28.04817696 |
| Virgaviridae | 27.72633421 | 27.29298451 | 30.16186046 | 25.43558075 | 13.10897664 | 0.214670165 | 38.82390874 |
| Coronaviridae | 25.93930216 | 19.61249349 | 28.23455773 | 23.29621400 | 12.41581964 | 0.823908741 | 40.61618463 |
| Mitoviridae | 22.97881070 | 22.97881070 | 22.97881070 | 22.97881070 | NA | 22.978810701 | 22.97881070 |
| Tulasviridae | 22.90308999 | 18.80687540 | 48.50031292 | 35.81291696 | 29.26487773 | 7.954677021 | 80.89962945 |
| Iflaviridae | 21.32862093 | 17.96884291 | 24.68839895 | 21.32862093 | 9.50288728 | 14.609064893 | 28.04817696 |
| Nodaviridae | 18.90308999 | 18.37236375 | 21.06174675 | 19.98837700 | 2.84888870 | 17.841637508 | 23.22040351 |
| Hepeviridae | 18.76069655 | 16.40584345 | 24.96123769 | 20.21859314 | 6.01841313 | 13.110138279 | 28.03105032 |
| Endornaviridae | 16.76693706 | 1.57150353 | 60.08676966 | 44.89133612 | 68.83930814 | 0.148741651 | 145.88272870 |
| Picobirnaviridae | 15.73048706 | 15.73048706 | 15.73048706 | 15.73048706 | NA | 15.730487056 | 15.73048706 |
| Botourmiaviridae | 13.09815198 | 10.01372999 | 18.26349624 | 15.17907425 | 7.50250384 | 9.000000000 | 25.51999306 |
| Tombusviridae | 10.71490372 | 10.62254085 | 10.80726659 | 10.71490372 | 0.26124164 | 10.530177984 | 10.89962945 |
| unclassified | 8.14206474 | 1.09357673 | 13.36545377 | 8.82323260 | 9.37259689 | 0.004364805 | 43.02548831 |
| Fusariviridae | 7.33697552 | 3.67067016 | 11.00328087 | 7.33697552 | 10.36987751 | 0.004364805 | 14.66958623 |
| Fiersviridae | 7.17848647 | 7.17848647 | 7.17848647 | 7.17848647 | NA | 7.178486472 | 7.17848647 |
| Partitiviridae | 6.11690664 | 6.11690664 | 6.11690664 | 6.11690664 | NA | 6.116906641 | 6.11690664 |
| Phenuiviridae | 6.05036341 | 3.42738005 | 6.75325729 | 5.03955939 | 2.69781804 | 0.823908741 | 7.77211330 |
| Euroniviridae | 2.69897000 | 2.69897000 | 2.69897000 | 2.69897000 | NA | 2.698970004 | 2.69897000 |
| Secoviridae | 1.85387196 | 1.40765428 | 8.59550987 | 7.47063864 | 10.42577749 | 0.886056648 | 29.54821356 |
| Hypoviridae | 1.75856321 | 1.61404226 | 1.79588002 | 1.65135906 | 0.24185881 | 1.292429824 | 1.79588002 |
| unclassified Kitrinoviricota | 1.69897000 | 1.19897000 | 2.19897000 | 1.69897000 | 1.41421356 | 0.698970004 | 2.69897000 |
| Sedoreoviridae | 1.50863831 | 1.50863831 | 2.22184875 | 6.35560945 | 11.14586791 | 0.283996656 | 26.25492521 |
| Solemoviridae | 1.35166740 | 0.80093102 | 8.12544718 | 7.57471080 | 13.14138371 | 0.327902142 | 27.26760624 |
| Picornaviridae | 1.33724217 | 0.73528482 | 1.38721614 | 1.04722977 | 0.60758120 | 0.045757491 | 1.79588002 |
| Tymoviridae | 1.32790214 | 1.32790214 | 1.32790214 | 1.32790214 | NA | 1.327902142 | 1.32790214 |
| Togaviridae | 1.32682351 | 1.27433613 | 1.37931089 | 1.32682351 | 0.14845673 | 1.221848750 | 1.43179828 |
| Artoviridae | 1.24412514 | 1.24412514 | 1.24412514 | 1.24412514 | NA | 1.244125144 | 1.24412514 |
| Xinmoviridae | 1.24412514 | 1.24412514 | 1.24412514 | 1.24412514 | NA | 1.244125144 | 1.24412514 |
| Filoviridae | 1.20760831 | 1.20760831 | 1.20760831 | 1.20760831 | NA | 1.207608311 | 1.20760831 |
| Paramyxoviridae | 1.01322827 | 0.52949288 | 1.08098496 | 0.73590914 | 0.60151720 | 0.045757491 | 1.14874165 |
| Retroviridae | 0.99569991 | 0.84733496 | 1.14406487 | 0.99569991 | 0.41963946 | 0.698970004 | 1.29242982 |
| Closteroviridae | 0.95860731 | 0.88605665 | 1.25181197 | 1.09357449 | 0.24372844 | 0.886056648 | 1.52287875 |
| Peribunyaviridae | 0.95860731 | 0.51857866 | 1.14570458 | 0.84372267 | 0.46302101 | 0.187086643 | 1.43179828 |
| Potyviridae | 0.82390874 | 0.74472749 | 24.55752023 | 10.20231577 | 13.10580338 | 0.327902142 | 24.55752023 |
| Betaflexiviridae | 0.76406090 | 0.59213865 | 0.93598315 | 0.76406090 | 0.48626955 | 0.420216403 | 1.10790540 |
| Alphaflexiviridae | 0.75188123 | 0.50575927 | 0.99800319 | 0.75188123 | 0.69613802 | 0.259637311 | 1.24412514 |
| Caulimoviridae | 0.74472749 | 0.39766874 | 0.74472749 | 0.51335499 | 0.40074893 | 0.050609993 | 0.74472749 |
| Tobaniviridae | 0.60205999 | 0.52899597 | 1.32390874 | 1.03458315 | 0.87874542 | 0.455931956 | 2.04575749 |
| Totiviridae | 0.60205999 | 0.45593196 | 1.61978876 | 4.15230747 | 7.56906559 | 0.420216403 | 17.66354027 |
| Astroviridae | 0.46590707 | 0.25583228 | 0.67598186 | 0.46590707 | 0.59418123 | 0.045757491 | 0.88605665 |
| Bornaviridae | 0.45593196 | 0.45593196 | 0.45593196 | 0.45593196 | NA | 0.455931956 | 0.45593196 |
| Orthomyxoviridae | 0.43807418 | 0.42914529 | 0.44700307 | 0.43807418 | 0.02525471 | 0.420216403 | 0.45593196 |
| Polymycoviridae | 0.43483312 | 0.24029530 | 0.62937093 | 0.43483312 | 0.55023603 | 0.045757491 | 0.82390874 |
| Rhabdoviridae | 0.36653154 | 0.32790214 | 1.43179828 | 1.18128759 | 1.38011262 | 0.283996656 | 3.49620932 |
| Arenaviridae | 0.35654732 | 0.35654732 | 0.35654732 | 0.35654732 | NA | 0.356547324 | 0.35654732 |
| Dicistroviridae | 0.28399666 | 0.28399666 | 0.28399666 | 0.28399666 | 0.00000000 | 0.283996656 | 0.28399666 |
| Chrysoviridae | 0.23014838 | 0.11725659 | 0.34304017 | 0.23014838 | 0.31930619 | 0.004364805 | 0.45593196 |
| Gammaflexiviridae | 0.18708664 | 0.18708664 | 0.18708664 | 0.18708664 | NA | 0.187086643 | 0.18708664 |
| Spinareoviridae | 0.14418073 | 0.07427277 | 0.21408869 | 0.14418073 | 0.19772958 | 0.004364805 | 0.28399666 |
| Nyamiviridae | 0.13667714 | 0.13667714 | 0.13667714 | 0.13667714 | NA | 0.136677140 | 0.13667714 |
| Birnaviridae | 0.05551733 | 0.05551733 | 0.05551733 | 0.05551733 | NA | 0.055517328 | 0.05551733 |
| Qinviridae | 0.04575749 | 0.04575749 | 0.04575749 | 0.04575749 | NA | 0.045757491 | 0.04575749 |
| Roniviridae | 0.04575749 | 0.04575749 | 0.04575749 | 0.04575749 | NA | 0.045757491 | 0.04575749 |
| Curvulaviridae | 0.02227639 | 0.02227639 | 0.02227639 | 0.02227639 | NA | 0.022276395 | 0.02227639 |
| Pneumoviridae | 0.01322827 | 0.01322827 | 0.01322827 | 0.01322827 | NA | 0.013228266 | 0.01322827 |