| R-HSA-898249I R-HSA-3>3>55 immune only   |         |        |         |        |        |
|--|---------|--------|---------|--------|--------|
| , sold the second secon | 249, 47 | 1290°° | 3>55,45 | PA>L   | 0/1/1  |
| Pairwise path length in reference tree   | 1.0     | 1.0    | 1.0     | 1.0    | 1.0    |
| Jaccard distance over extended gene set  | 0.244   | 0.195  | 0.3     | 0.178  | 0.215  |
| Dijkstra BMA PPI   | 0.226   | 0.084  | 0.332   | 0.216  | 0.143  |
| WM distance over summary W2V   | 0.182   | 0.362  | 0.162   | 0.203  | NaN    |
| WM distance over gene symbols W2V  | 0.266   | 0.349  | 0.367   |        | 0.335  |
| Cosine distance over over summary W2V  | 0.174   | 0.351  | 0.102   | 0.06   | NaN    |
| Cosine distance over over NCBI summary W2V   | 0.161   | 0.251  | 0.318   | 0.228  | 0.267  |
| Cosine distance over gene symbols W2V  | 0.39    | 0.277  | 0.382   | 0.196  | 0.278  |
| Cosine distance GO MF description W2V  | 0.263   | 0.175  | 0.255   | 0.111  | 0.28   |
| Cosine distance GO CC description W2V  | 0.135   | 0.192  | 0.239   | 0.114  | 0.079  |
| Cosine distance GO BP description W2V  | 0.105   | 0.174  | 0.339   | 0.183  | 0.291  |
| GO-distance (go_type=MF, measure=Wang, combine=BMA)  | 0.438   | 0.122  | 0.25    | 0.136  | 0.14   |
| GO-distance (go_type=CC, measure=Wang, combine=BMA)  | 0.078   | 0.124  | 0.234   | 0.143  | 0.118  |
| GO-distance (go_type=BP, measure=Wang, combine=BMA)  | 0.144   | 0.217  | 0.222   | 0.144  | 0.172  |
| Overlap distance over genes  | 0.428   | 0.253  | 0.554   | 0.408  | 0.614  |
| Overlap distance over gene traits  | 0.583   | 0.304  | 0.501   | 0.259  | 0.449  |
| Minkowski distance (p=2) over genes  | -0.09   | 0.012  | -0.042  | -0.09  | -0.201 |
| Minkowski distance ( $p=2$ ) over gene traits  | -0.019  | 0.023  | -0.033  | -0.084 | -0.192 |
| Minkowski distance (p=2) over gene trait frequency   | -0.08   | -0.011 | -0.106  | -0.038 | -0.241 |
| Minkowski distance (p=1) over genes  | -0.09   | 0.012  | -0.042  | -0.09  | -0.201 |
| Minkowski distance ( $p=1$ ) over gene traits  | -0.019  | 0.023  | -0.033  | -0.084 | -0.192 |
| Minkowski distance (p=1) over gene trait frequency   | -0.054  | -0.001 | -0.08   | -0.074 | -0.228 |
| Kappa distance over genes  | 0.27    | 0.337  | 0.442   | 0.201  | 0.458  |
| Kappa distance over gene traits  | 0.418   | 0.317  | 0.371   | 0.133  | 0.099  |
| Jaccard distance over genes  | 0.316   | 0.319  | 0.503   | 0.4    | 0.604  |
| Jaccard distance over gene traits  | 0.468   | 0.296  | 0.359   | 0.162  | 0.213  |
| Cosine distance over gene trait frequency  | 0.555   | 0.434  | 0.264   | 0.209  | 0.388  |
| Random (uniform, (0,1))  | 0.04    | -0.008 | 0.019   | -0.004 | 0.022  |