Supplemental Table S2 –Hubs in the zebrafish stage 2 PPI network during infection

Column 1 gives the names of the top 10 hubproteins ranked by number of protein interactions in the zebrafish stage 2 PPI network. Columns 2 and 3 provide the GO terms of the proteins from zebrafish and *Homo sapiens*, respectively. Column 4 indicates the number of PPIs of these hub proteins.

|  |  |  |  |
| --- | --- | --- | --- |
| Zebrafish protein | Zebrafish GO term | *Homo sapiens* GO term | Number of interactions |
| Tp53 | GO:0006915 : apoptosis | GO:0006915 : apoptosis | 58 |
| GO:0043065 : positive regulation of apoptosis |  |
| Esr1 | GO:0046872 : metal ion binding | GO:0042981 : regulation of apoptosis | 33 |
| GO:0008270 : zinc ion binding |  |
| Hsp90a.1 | GO:0014866 : skeletal myofibril assembly |  | 32 |
| GO:0045429 : positive regulation of nitric oxide biosynthetic process |  |
| GO:0048769 : sarcomerogenesis |  |
| GO:0030235 : nitric-oxide synthase regulator activity |  |
| Traf6 | GO:0016567 : protein ubiquitination | GO:0006915 : apoptosis | 31 |
| GO:0042981 : regulation of apoptosis | GO:0045087 : innate immune response |
| GO:0009617 : response to bacterium | GO:0042088 : T-helper 1 type immune response |
| GO:0009615 : response to virus |  |
| GO:0046872 : metal ion binding |  |
| GO:0008270 : zinc ion binding |  |
| Ikbkg | GO:0007252 : I-kappaB phosphorylation |  | 31 |
| GO:0051092 : positive regulation of NF-kappaB transcription factor activity |  |
| GO:0006974 : response to DNA damage stimulus |  |
| Jun | GO:0060070 : canonical Wnt receptor signaling pathway | GO:0045087 : innate immune response | 27 |
| GO:0006355 : regulation of transcription, DNA-dependent | GO:0043525 : positive regulation of neuron apoptosis |
| GO:0046686 : response to cadmium ion |  |
| Ube2i | GO:0007049 : cell cycle | GO:0051301 : cell division | 27 |
| GO:0007088 : regulation of mitosis | GO:0016567 : protein ubiquitination |
| Ar | GO:0046872 : metal ion binding | GO:0008219 : cell death | 26 |
| GO:0008270 : zinc ion binding | GO:0008283 : cell proliferation |
| Myca | GO:0006355 : regulation of transcription, DNA-dependent |  | 25 |
| GO:0006351 : transcription, DNA-dependent |  |
| Src | GO:0006468 : protein phosphorylation | GO:0016337 : cell-cell adhesion | 24 |
| GO:0005524 : ATP binding |  |