Supplemental Table S3 –The number of PPIs of zebrafish proteins in host-pathogen intercellular PPI network in the infectious processing:

The top 25 zebrafish hub proteins ranked by number of potential interactions with *C. albicans* proteins are listed in this table; their PPI cross-correlations are larger than 0.95. Column 1 indicates the number of PPIs of zebrafish proteins sorted in descending order. Column 2 provides the protein name in zebrafish; Columns 3 and 4 provide the corresponding GO terms.

|  |  |  |  |
| --- | --- | --- | --- |
| Number of Interaction | Zebrafish protein | GO term | |
| biological process | molecular function |
| 37 | Igf1 | GO:0009953 : dorsal/ventral pattern formation | GO:0008083 : growth factor activity |
| GO:0008284 : positive regulation of cell proliferation | GO:0005179 : hormone activity |
|  | GO:0005159 : insulin-like growth factor receptor binding |
| 37 | Chia.2 | GO:0005975:chitin catabolic process | GO:0008061: chitin binding |
| 35 | Nbl1 | GO:0060872 : semicircular canal development |  |
| 34 | F10 | GO:0007596 : blood coagulation | GO:0003824 : catalytic activity |
| GO:0006508 : proteolysis | GO:0004252 : serine-type endopeptidase activity |
| 34 | F7i | GO:0007596 : blood coagulation | GO:0005509 : calcium ion binding |
| GO:0030195 : negative regulation of blood coagulation | GO:0003824 : catalytic activity |
|  | GO:0004252 : serine-type endopeptidase activity |
| 33 | Igfbp2a | GO:0001525 : angiogenesis |  |
| GO:0040007 : growth |  |
| GO:0007507 : heart development |  |
| GO:0007275 : multicellular organismal development |  |
| GO:0008285 : negative regulation of cell proliferation |  |
| GO:0008156 : negative regulation of DNA replication |  |
| GO:0001558 : regulation of cell growth |  |
| GO:0043567 : regulation of insulin-like growth factor receptor signaling pathway |  |
| 33 | Mstnb | GO:0040007 : growth |  |
| GO:0007517 : muscle organ development |  |
| GO:0045926 : negative regulation of growth |  |
| GO:0007179 : transforming growth factor beta receptor signaling pathway |  |
| 33 | Slc34a2a | GO:0006817 : phosphate transport | GO:0015321 : sodium-dependent phosphate transmembrane transporter activity |
| 32 | cx30.9 | GO:0007154 : cell communication |  |
| 32 | Itgb1b.2 | GO:0007155 : cell adhesion |  |
| GO:0007160 : cell-matrix adhesion |  |
| GO:0007229 : integrin-mediated signaling pathway |  |
| GO:0007275 : multicellular organismal development |  |
| 32 | Chia.1 | GO:0005975:chitin catabolic process | GO:0008061: chitin binding |
| 31 | Asah2 | GO:0006672 : ceramide metabolic process |  |
| GO:0006629 : lipid metabolic process |  |
| GO:0007275 : multicellular organismal development |  |
| GO:0006665 : sphingolipid metabolic process |  |
| 30 | F9 | GO:0007596 : blood coagulation |  |
| GO:0006508 : proteolysis |  |
| 30 | Glra4b | GO:0006811 : ion transport |  |
| 30 | Hbl4 |  | GO:0005529 : sugar binding |
| 30 | Hpx | GO:0042221 : response to chemical stimulus | GO:0046872 : metal ion binding |
| 29 | Cetp | GO:0043691 : reverse cholesterol transport | GO:0017127 : cholesterol transporter activity |
|  | GO:0008289 : lipid binding |
| 29 | F2 | GO:0007596 : blood coagulation | GO:0005509 : calcium ion binding |
| GO:0006508 : proteolysis | GO:0003824 : catalytic activity |
|  | GO:0016787 : hydrolase activity |
|  | GO:0008233 : peptidase activity |
|  | GO:0004252 : serine-type endopeptidase activity |
|  | GO:0008236 : serine-type peptidase activity |
| 29 | si:ch211-140f21.1 |  | GO:0004866 : endopeptidase inhibitor activity |
| 29 | Zgc:163025 | GO:0007596 : blood coagulation | GO:0005509 : calcium ion binding |
| GO:0006508 : proteolysis | GO:0003824 : catalytic activity |
|  | GO:0004252 : serine-type endopeptidase activity |
| 29 | Kcna6 | GO:0006811 : ion transport |  |
| GO:0006813 : potassium ion transport |  |
| GO:0055085 : transmembrane transport |  |
| 28 | Colec11 |  | GO:0005537 : mannose binding |
|  | GO:0005529 : sugar binding |
| 27 | Chrnd | GO:0006811 : ion transport |  |
| GO:0030239 : myofibril assembly |  |
| 27 | Glra3 | GO:0006811 : ion transport |  |
| 27 | Apoea | unknown |  |