**Table S4: GSEA analysis between high-risk and low-risk groups (inhibited biological function).**

|  |  |  |  |
| --- | --- | --- | --- |
| ID | ES | NES | pvalue |
| go\_inhibitory\_extracellular\_ligand\_gated\_ion\_channel\_activity | -0.85224 | -1.93587 | 9.71E-05 |
| go\_limb\_bud\_formation | -0.83795 | -1.9034 | 0.000239 |
| go\_condensed\_chromosome\_outer\_kinetochore | -0.83151 | -1.97688 | 5.58E-05 |
| go\_spindle\_elongation | -0.82814 | -1.83236 | 0.000416 |
| go\_regulation\_of\_chloride\_transport | -0.80699 | -1.78556 | 0.001196 |
| go\_mitotic\_dna\_replication | -0.79769 | -1.9836 | 9.96E-05 |
| go\_synaptic\_vesicle\_docking | -0.79619 | -1.80854 | 0.001997 |
| go\_chromatoid\_body | -0.78929 | -1.8765 | 0.000609 |
| go\_negative\_regulation\_of\_transcription\_by\_competitive\_promoter\_binding | -0.78684 | -1.74097 | 0.002793 |
| go\_galactolipid\_metabolic\_process | -0.77716 | -1.71956 | 0.003771 |
| kegg\_cell\_cycle | -0.50829 | -1.75203 | 3.25E-05 |
| kegg\_ecm\_receptor\_interaction | -0.48663 | -1.61201 | 0.004043 |
| kegg\_neuroactive\_ligand\_receptor\_interaction | -0.46544 | -1.67554 | 2.41E-06 |
| kegg\_gap\_junction | -0.46196 | -1.53597 | 0.007855 |
| kegg\_axon\_guidance | -0.44686 | -1.54182 | 0.003792 |
| kegg\_huntingtons\_disease | 0.379055 | 1.8326 | 5.28E-06 |
| kegg\_steroid\_hormone\_biosynthesis | 0.390165 | 1.552235 | 0.009584 |
| kegg\_alzheimers\_disease | 0.400588 | 1.910789 | 1.57E-06 |
| kegg\_arachidonic\_acid\_metabolism | 0.402226 | 1.612863 | 0.008925 |
| kegg\_ppar\_signaling\_pathway | 0.449864 | 1.845516 | 0.000117 |