**TableS2. Results of GSEA analysis based on high - and low-risk groups**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Description | setSize | enrichmentScore | NES | p.adjust | qvalues |
| REACTOME\_BIOLOGICAL\_OXIDATIONS | 32 | -0.434595008 | -2.162256154 | 0.034415584 | 0.026885395 |
| WP\_METAPATHWAY\_BIOTRANSFORMATION\_PHASE\_I\_AND\_II | 29 | -0.424873112 | -2.038022686 | 0.034415584 | 0.026885395 |
| KEGG\_METABOLISM\_OF\_XENOBIOTICS\_BY\_CYTOCHROME\_P450 | 11 | -0.615682131 | -2.099985143 | 0.034415584 | 0.026885395 |
| REACTOME\_PHASE\_I\_FUNCTIONALIZATION\_OF\_COMPOUNDS | 20 | -0.470788587 | -2.007735712 | 0.034415584 | 0.026885395 |
| REACTOME\_ECM\_PROTEOGLYCANS | 10 | 0.638376885 | 2.472600358 | 0.034415584 | 0.026885395 |
| REACTOME\_NON\_INTEGRIN\_MEMBRANE\_ECM\_INTERACTIONS | 10 | 0.651061744 | 2.521732132 | 0.034415584 | 0.026885395 |
| REACTOME\_RESPONSE\_TO\_ELEVATED\_PLATELET\_CYTOSOLIC\_CA2\_ | 10 | 0.69475851 | 2.690981115 | 0.034415584 | 0.026885395 |
| WP\_VEGFAVEGFR2\_SIGNALING\_PATHWAY | 10 | 0.654376148 | 2.534569683 | 0.034415584 | 0.026885395 |
| KEGG\_DILATED\_CARDIOMYOPATHY | 14 | 0.563696638 | 2.603068997 | 0.034415584 | 0.026885395 |
| KEGG\_HYPERTROPHIC\_CARDIOMYOPATHY\_HCM | 14 | 0.644413259 | 2.975806599 | 0.034415584 | 0.026885395 |
| PID\_INTEGRIN1\_PATHWAY | 14 | 0.670804489 | 3.097677456 | 0.034415584 | 0.026885395 |
| REACTOME\_STRIATED\_MUSCLE\_CONTRACTION | 13 | 0.840510367 | 3.734645969 | 0.034415584 | 0.026885395 |
| WP\_STRIATED\_MUSCLE\_CONTRACTION\_PATHWAY | 13 | 0.840510367 | 3.734645969 | 0.034415584 | 0.026885395 |
| KEGG\_ECM\_RECEPTOR\_INTERACTION | 12 | 0.633463719 | 2.694126596 | 0.034415584 | 0.026885395 |
| WP\_CARDIAC\_PROGENITOR\_DIFFERENTIATION | 12 | 0.526639981 | 2.239804327 | 0.034415584 | 0.026885395 |
| REACTOME\_DEGRADATION\_OF\_THE\_EXTRACELLULAR\_MATRIX | 18 | 0.509938341 | 2.663771111 | 0.034415584 | 0.026885395 |
| KEGG\_FOCAL\_ADHESION | 21 | 0.571333356 | 3.251761213 | 0.034415584 | 0.026885395 |
| REACTOME\_MUSCLE\_CONTRACTION | 21 | 0.464550755 | 2.644004787 | 0.034415584 | 0.026885395 |
| WP\_FOCAL\_ADHESION | 20 | 0.644417854 | 3.579024737 | 0.034415584 | 0.026885395 |
| NABA\_ECM\_REGULATORS | 26 | 0.332578135 | 2.145964449 | 0.035546613 | 0.027768953 |
| REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION | 30 | 0.466281798 | 3.159885079 | 0.039278656 | 0.030684419 |
| NABA\_CORE\_MATRISOME | 35 | 0.317094792 | 2.313413746 | 0.041471049 | 0.032397112 |
| REACTOME\_SIGNALING\_BY\_RECEPTOR\_TYROSINE\_KINASES | 36 | 0.275851079 | 2.008933905 | 0.041471049 | 0.032397112 |
| REACTOME\_CYTOCHROME\_P450\_ARRANGED\_BY\_SUBSTRATE\_TYPE | 16 | -0.501465888 | -1.956705278 | 0.041471049 | 0.032397112 |
| WP\_OXIDATION\_BY\_CYTOCHROME\_P450 | 16 | -0.502399528 | -1.960348317 | 0.041471049 | 0.032397112 |
| REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION | 13 | 0.478663801 | 2.126850431 | 0.041471049 | 0.032397112 |