# Table SVI. KEGG Pathway Functional enrichment list.

| ID     | Description                                                                 | P-value     | Count |
|--------|-----------------------------------------------------------------------------|-------------|-------|
| hsa04080 | Neuroactive ligand-receptor interaction                                      | 2.25x10^{-11} | 34    |
| hsa04510 | Focal adhesion                                                              | 9.86x10^{-05} | 16    |
| hsa04974 | Protein digestion and absorption                                             | 0.000155    | 10    |
| hsa04020 | Calcium signaling pathway                                                    | 0.000237    | 15    |
| hsa04151 | PI3K-Akt signaling pathway                                                   | 0.00024     | 22    |
| hsa04927 | Cortisol synthesis and secretion                                             | 0.000352    | 8     |
| hsa04512 | ECM-receptor interaction                                                     | 0.000518    | 9     |
| hsa04270 | Vascular smooth muscle contraction                                          | 0.000909    | 11    |
| hsa04934 | Cushing syndrome                                                             | 0.001031    | 12    |
| hsa05031 | Amphetamine addiction                                                       | 0.002381    | 7     |
| hsa05033 | Nicotine addiction                                                          | 0.004321    | 5     |
| hsa04925 | Aldosterone synthesis and secretion                                          | 0.005101    | 8     |
| hsa04024 | cAMP signaling pathway                                                      | 0.005547    | 13    |
| hsa00590 | Arachidonic acid metabolism                                                  | 0.007084    | 6     |
| hsa05410 | Hypertension (HCM)                                                          | 0.009306    | 7     |
| hsa05144 | Malaria                                                                     | 0.010284    | 5     |
| hsa04014 | Ras signaling pathway                                                       | 0.010646    | 13    |
| hsa05014 | Amyotrophic lateral sclerosis (ALS)                                          | 0.012129    | 5     |
| hsa05202 | Transcriptional misregulation in cancer                                      | 0.012548    | 11    |
| hsa05414 | Dilated cardiomyopathy (DCM)                                                 | 0.013169    | 7     |
| hsa04060 | Cytokine-cytokine receptor interaction                                       | 0.014165    | 15    |
| hsa04010 | MAPK signaling pathway                                                       | 0.014573    | 15    |
| hsa04022 | cGMP-PKG signaling pathway                                                   | 0.015648    | 10    |
| hsa04972 | Pancreatic secretion                                                        | 0.017175    | 7     |
| hsa04261 | Adrenergic signaling in cardiomyocytes                                       | 0.01874     | 9     |
| hsa04933 | AGE-RAGE signaling pathway in diabetic complications                         | 0.018996    | 7     |
| hsa04610 | Complement and coagulation cascades                                         | 0.020292    | 6     |
| hsa04260 | Cardiac muscle contraction                                                   | 0.026564    | 6     |
| hsa04310 | Wnt signaling pathway                                                       | 0.029363    | 9     |
| hsa04810 | Regulation of actin cytoskeleton                                             | 0.031728    | 11    |
| hsa04371 | Apelin signaling pathway                                                    | 0.033171    | 8     |
| hsa00830 | Retinol metabolism                                                          | 0.035264    | 5     |
| hsa05032 | Morphine addiction                                                          | 0.037328    | 6     |
| hsa05030 | Cocaine addiction                                                           | 0.043623    | 4     |
| hsa00982 | Drug metabolism - cytochrome P450                                            | 0.045887    | 5     |
| hsa05205 | Proteoglycans in cancer                                                      | 0.047593    | 10    |
| hsa05215 | Prostate cancer                                                             | 0.048505    | 6     |
| hsa04072 | Phospholipase D signaling pathway                                            | 0.048714    | 8     |