**Table S5. Genes demonstrating mutations and expression changes in the top 10 pathways identified using GeneGo’s Pancreatic Cancer Disease module**

|  |  |  |
| --- | --- | --- |
|  | **Genomic events** | **Expression changes** |
| Gene | Patient | Event | Alteration | Patient | Fold change (ln) | q-value (corrected) |
| *KRAS* | 1 | SNV | G12V |   |   |   |
| *KRAS* | 2 | SNV | G12V |   |   |   |
| *KRAS* | 3 | SNV | G12R |   |   |   |
| *KRAS* | 3 | CNV | 1.379 |   |   |   |
| *KRAS* |   |   |   | 3 | 4.35 | 1.61E-03 |
| *AKT2* | 1 | CNV | -1.019 |   |   |   |
| *AKT2* |   |   |   | 3 | 4.42 | 4.52E-02 |
| *GNAI2* | 1 | CNV | -1.021 |   |   |   |
| *GNAI2* |   |   |   | 2 | 4.75 | 8.11E-04 |
| *TP53* | 1 | SNV | R248W |   |   |   |
| *TP53* |   |   |   | 2 | 4.24 | 5.10E-03 |
| *CSNK2A1* | 1 | CNV | -0.905 |   |   |   |
| *CSNK2A1* |   |   |   | 2 | -3.89 | 6.07E-03 |
| *CSNK2A1* |   |   |   | 3 | -3.08 | 3.68E-02 |
| *CASP9* | 1 | CNV | -0.904 |   |   |   |
| *CASP9* |   |   |   | 2 | -3.29 | 3.66E-02 |
| *CASP9* |   |   |   | 3 | -4.16 | 3.13E-03 |
| *ERBB4* | 1 | CNV | -0.945 |   |   |   |
| *ERBB4* |   |   |   | 2 | -5.98 | 1.39E-05 |
| *ERBB4* |   |   |   | 3 | -3.45 | 1.93E-02 |
| *SOS1/HGF* | 1 | CNV | -1.011 |   |   |   |
| *SOS1/HGF* |   |   |   | 3 | 4.86 | 1.54E-03 |
| *NFKBIB* | 1 | CNV | -1.057 |   |   |   |
| *NFKBIB* |   |   |   | 3 | 3.75 | 2.64E-02 |
| *COL4A4* | 1 | CNV | -0.858 |   |   |   |
| *COL4A4* |   |   |   | 2 | -5.11 | 3.20E-04 |
| *COL4A4* |   |   |   | 3 | -6.11 | 1.93E-04 |
| *PTK2* | 1 | CNV | 0.843 |   |   |   |
| *PTK2* |   |   |   | 3 | -3.33 | 2.94E-02 |
| *FN1* | 1 | CNV | -0.957 |   |   |   |
| *FN1* |   |   |   | 3 | 4.00 | 4.37E-03 |
| *POSTN* | 1 | CNV | -0.833 |   |   |   |
| *POSTN* |   |   |   | 2 | 5.63 | 2.66E-05 |
| *POSTN* |   |   |   | 2 | 5.61 | 7.65E-05 |
| *POSTN* |   |   |   | 2 | 4.10 | 1.56E-02 |
| *POSTN* |   |   |   | 3 | 3.84 | 2.59E-02 |
| *POSTN* |   |   |   | 3 | 3.31 | 4.97E-02 |
| *COL3A1* | 1 | CNV | -0.984 |   |   |   |
| *COL3A1* |   |   |   | 2 | 3.73 | 1.95E-02 |