**S6 Table. Frequencies of mutated genes (%) in Caucasian, Chinese and Korean populations**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gene** | **Landau et al. [1] ,**  **USA (n=538)** | **Puente et al [2], Spain (n=452)** | **Mean of Caucasian studies\***  **(n=990)** | **Xia et al. [3], China †  (n=307)** | **present study,**  **Korea (n=48)** |
| ***ATM*** | **15%** | **11%** | **13%** |  | **21%** |
| ***TP53*** | **7%** | **5%** | **6%** | **15%** | **15%** |
| ***SF3B1*** | **21%** | **9%** | **15%** | **5%** | **10%** |
| ***KLHL6*** |  | **3%** | **1%** |  | **8%** |
| ***BCOR*** | **2%** | **1%** | **2%** |  | **6%** |
| ***LAMB4*** |  |  |  |  | **6%** |
| ***NOTCH1*** | **8%** | **13%** | **10%** | **8%** | **6%** |
| ***SH2B3*** |  |  |  |  | **4%** |
| ***BRD2*** |  |  |  |  | **4%** |
| ***EZH2*** |  |  |  |  | **4%** |
| ***FAT4*** |  |  |  |  | **4%** |
| ***MYD88*** | **3%** | **4%** | **3%** | **8%** | **4%** |
| ***CSF1R*** |  |  |  |  | **2%** |
| ***POT1*** | **7%** | **3%** | **5%** |  | **2%** |
| ***SF1*** |  |  |  |  | **2%** |
| ***ZRSR2*** |  |  |  |  | **2%** |
| ***CHD2*** | **5%** | **6%** | **5%** |  | **2%** |
| ***MED12*** | **2%** | **1%** | **2%** |  | **2%** |
| ***LRP1B*** |  |  |  |  | **2%** |
| ***ZMYM3*** | **2%** | **2%** | **2%** |  | **2%** |
| ***CDKN2A*** |  | **0%** | **0%** |  | **2%** |
| ***DDX3X*** | **2%** | **3%** | **3%** |  | **2%** |
| ***STAG2*** |  |  |  |  | **2%** |
| ***CEBPA*** |  |  |  |  | **2%** |
| ***GATA2*** |  |  |  |  | **2%** |
| ***KIT*** |  |  |  |  | **2%** |
| ***RUNX1*** |  |  |  |  | **2%** |
| ***SETBP1*** |  |  |  |  | **2%** |
| ***EGR2*** | **3%** | **2%** | **3%** |  | **2%** |
| ***TCF12*** |  |  |  |  | **2%** |
| ***SCRIB*** |  |  |  |  | **2%** |
| ***RB1*** |  |  |  |  | **2%** |
| ***ITPKB*** |  |  |  |  | **2%** |
| ***SAMHD1*** | **2%** |  | **1%** |  | **2%** |
| ***PRKD3*** |  |  |  |  | **2%** |
| ***BIRC3*** | **4%** | **9%** | **6%** | **2%** |  |
| ***MGA*** | **3%** | **3%** | **3%** |  |  |
| ***KRAS*** | **3%** |  | **1%** |  |  |
| ***FBXW7*** | **2%** | **1%** | **2%** |  |  |
| ***IGLL5*** | **2%** |  | **1%** |  |  |
| ***IKZF3*** | **2%** |  | **1%** |  |  |
| ***MAP2K1*** | **2%** |  | **1%** |  |  |
| ***IRF4*** | **2%** | **1%** | **2%** |  |  |
| ***NRAS*** | **2%** | **0%** | **1%** |  |  |
| ***NXF1*** | **2%** |  | **1%** |  |  |
| ***CARD11*** | **1%** |  | **1%** |  |  |
| ***DYRK1A*** | **1%** |  | **1%** |  |  |
| ***HIST1H1E*** | **1%** |  | **1%** |  |  |
| ***PTPN11*** | **1%** | **1%** | **1%** |  |  |
| ***XPO4*** | **1%** |  | **1%** |  |  |
| ***BRCC3*** | **1%** |  | **1%** |  |  |
| ***TRAF2*** | **1%** |  | **1%** |  |  |
| ***ASXL1*** | **1%** | **1%** | **1%** |  |  |
| ***CHEK2*** | **1%** |  | **1%** |  |  |
| ***EWSR1*** | **1%** |  | **1%** |  |  |
| ***GNB1*** | **1%** |  | **1%** |  |  |
| ***HISTIHIB*** | **1%** | **1%** | **1%** |  |  |
| ***PIM1*** | **1%** |  | **0%** |  |  |
| ***ZNF292*** |  | **5%** | **2%** |  |  |
| ***TRAF3*** |  | **3%** | **1%** |  |  |
| ***SETD2*** |  | **2%** | **1%** |  |  |
| ***BRAF*** |  | **2%** | **1%** |  |  |
| ***SYNE1*** |  | **2%** | **1%** |  |  |
| ***XPO1*** |  | **2%** | **1%** |  |  |
| ***ARID1A*** |  | **2%** | **1%** |  |  |
| ***ATRX*** |  | **2%** | **1%** |  |  |
| ***FSIP2*** |  | **2%** | **1%** |  |  |
| ***CCND2*** |  | **1%** | **1%** |  |  |
| ***CNOT3*** |  | **1%** | **1%** |  |  |
| ***NXF1*** |  | **1%** | **1%** |  |  |
| ***SPEN*** |  | **1%** | **1%** |  |  |
| ***KIAA0947*** |  | **1%** | **1%** |  |  |
| ***MLL2*** |  | **1%** | **1%** |  |  |
| ***NFKBIE*** |  | **1%** | **1%** |  |  |
| ***SETD1A*** |  | **1%** | **1%** |  |  |
| ***FUBP1*** |  | **1%** | **0%** |  |  |
| ***POLR3B*** |  | **1%** | **0%** |  |  |
| ***RPS15*** |  | **1%** | **0%** |  |  |
| ***ANKHD1*** |  | **1%** | **0%** |  |  |
| ***BAX*** |  | **1%** | **0%** |  |  |
| ***BAZ2A*** |  | **1%** | **0%** |  |  |
| ***CREBBP*** |  | **1%** | **0%** |  |  |
| ***DNAJC11*** |  | **1%** | **0%** |  |  |
| ***IKZF3*** |  | **1%** | **0%** |  |  |
| ***KRAS*** |  | **1%** | **0%** |  |  |
| ***LUC7L2*** |  | **1%** | **0%** |  |  |
| ***SKIV2L2*** |  | **1%** | **0%** |  |  |
| ***ZC3H18*** |  | **1%** | **0%** |  |  |
| ***MED1*** |  | **0%** | **0%** |  |  |
| ***NKAP*** |  | **0%** | **0%** |  |  |
| ***TLR2*** |  | **0%** | **0%** |  |  |
| ***CD79A*** |  | **0%** | **0%** |  |  |
| ***CD79B*** |  | **0%** | **0%** |  |  |
| ***CDKN1B*** |  | **0%** | **0%** |  |  |
| ***IRAK1*** |  | **0%** | **0%** |  |  |

**\*Mean percentage of data proposed Landau et al.(2015) and Puente et al.(2015)**

**† Sanger sequencing was performed in this study**

**References**

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