**Table S2.** Haplotype frequencies and association test results in the *PARK2* gene among BU patients and age- and gender-matched healthy controls.

|  |  |  |  |
| --- | --- | --- | --- |
| **Haplotype**a | **Alleles**b**:status** | **Frequency (%)** | **P value**c |
|
| H1 | A-C-G  BU  Controls | 0.396  0.430 | 0.29 |
| H2 | G-T-A |  |  |
|  | BU | 0.273 | 0.11 |
|  | Controls | 0.229 |  |
| H3 | G-C-A |  |  |
|  | BU | 0.224 | 0.74 |
|  | Controls | 0.216 |  |
| H4 | G-C-G |  |  |
|  | BU | 0.099 | 0.22 |
|  | Controls | 0.123 |  |

a Haplotypes with frequencies ˃0.05 in either BU patients or controls are shown.

b Pairwise linkage disequilibrium (LD) blocks were defined using the confidence intervals method. Genotype frequencies of the selected SNPs were used to phase haplotype configuration.

c P values were calculated based on approximate chi-square distribution.