**Table S1**. List of selected polymorphisms and genotyping methods.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gene name** | **rs ID** | **Alias** | **Marker location** | **Effect at the protein level** | **Analysis method** |
| Membrane transport |
| *ABCB1* | rs1045642 | 3435C>T  | CDS | Ile1145Ile | Pyrosequencing |
|  | rs1128503 | 1236C>T | CDS | Gly412Gly | TaqMan |
| *ABCC2* | rs717620 | -24>C>T | 5’UTR |  | TaqMan |
|  | rs2273697 | 1249G>A | CDS | Val417Ile | TaqMan |
| DNA synthesis and repair mechanisms |
| *MTHFR* | rs1801133 | 677C>T  | CDS | Ala222Val | TaqMan |
|  | rs1801131 | 1298A>C | CDS | Glu428Ala | TaqMan |
| *TYMS* | rs45445694 | VNTR 28bp (2R>3R) | 5’UTR |  | Gel electrophoresis |
|  | rs2853542 | G>C 12th bp in VNTR repeat  | 5’UTR |  | Enzymatic digestion |
|  | rs16430 | 1494del6  | 3’UTR |  | Enzymatic digestion |
| *hOGG1* | rs1052133 | 1245C>G | CDS | Ser326Cys | Pyrosequencing |
| *APE1* | rs1130409 | 2197G>T | CDS | Asp148Glu | TaqMan |
| *ERCC1* | rs11615 | 19007T>C | CDS | Asn118Asn | Pyrosequencing |
|  | rs3212986 | 8092G>T | 3’UTR |  | Pyrosequencing |
| *ERCC2 (XPD)* | rs13181 | 35931T>G | CDS | Lys751Gln | TaqMan |
|  | rs1799793 | 23591G>A | CDS | Asp312Asn | Pyrosequencing |
| *XRCC1* | rs25487 | 28152G>A | CDS | Arg399Gln | Pyrosequencing |
|  | rs1799782 | 26304C>T | CDS | Arg194Trp | Pyrosequencing |
| *XRCC3* | rs1799794 | 4541A>G | 5’UTR |  | Pyrosequencing |
|  | rs861539 | 18067C>T | CDS | Thr241Met | Pyrosequencing |
| *hMSH2* | rs2303428 | IVS12-6T>C | intronic |  | TaqMan |
| *hMLH1* | rs1799977 | 676G>A | CDS | Ile219Val | Pyrosequencing |
| Detoxifying systems  |
| *CYP3A5* | rs776746 | \*3C [6986G>A]  | intron splice variant |  | TaqMan |
| *CYP3A4* | rs2740574 | \*1B [-392A>G] | 5’UTR |  | Pyrosequencing |
| *CYP17A1* | rs743572 | -34T>C | 5’UTR |  | TaqMan |
| *CYP2D6* | rs3892097 | \*4 [1846G>A] | splice acceptor variant |  | TaqMan |
| Oxidative stress response |
| *GST-T1* | NA | Null genotype | Gene deletion |  | Gel electrophoresis |
| *GST-M1* | NA | Null genotype | Gene deletion |  | Gel electrophoresis |
| *GST-P1* | rs1695 | 313A>G | CDS | Ile105Val | TaqMan |
|  | rs1138272 | 341C>T | CDS  | Ala114Val | TaqMan |
| *GST-A1* | rs3957357 | \*B [69G>A] | 5’UTR |  | Pyrosequencing |
| *SOD2* | rs4880 | 47C>T | CDS | Ala16Val | TaqMan |

CDS, coding DNA sequence; NA, not available