

**Characterization of the epigenetical inactivation
of the tumor suppressor gene *RASSF1A*
in human mammary epithelial cells**

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Abbreviations

| | |
|------------------------------|---|
| μ | micro |
| 5-Aza-CdR | 5-aza-2'-deoxycytidine |
| <i>Aprt</i> | adenine phosphoribosyltransferase |
| <i>APC</i> | anaphase-promoting complex |
| <i>ATM</i> | ataxia telangiectasia-mutated kinase |
| ATP | adenosine triphosphate |
| BSA | albumin bovine, fraction V |
| bp | base pair |
| cDNA | complementary deoxyribonucleic acid |
| ChIp | chromatin immunoprecipitation |
| <i>CNK</i> | connector enhancer of KSR |
| COBRA | combined bisulfite restriction analysis |
| dATP | deoxyadenosine triphosphate |
| dCTP | deoxycytosine triphosphate |
| dGTP | deoxyguanosine triphosphate |
| dNTP _s | deoxyribonucleoside triphosphates |
| DMEM | Dolbecco's MEM |
| DNA | deoxyribonucleic acid |
| <i>DNMT</i> | DNA methyltransferase |
| <i>Dntt</i> | terminal deoxynucleotidyltransferase |
| DTT | dithiothretol |
| dTTP | deoxythymidine triphosphate |
| <i>GSTP1</i> | glutathione-S-transferase |
| <i>E.coli</i> | <i>Escherichia coli</i> |
| EDTA | ethylene diamine tetraacetic acid 2Na |
| EGTA | ethylene glycol tetraacetic acid |
| Electro mobility-shift assay | EMSA |
| EtOH | ethanol |
| h | hour |
| <i>HAT</i> | histone acetyltransferase |
| <i>HDAC</i> | histone deacetylase |
| HF | human fibroblasts |
| HMF | human mammary fibroblasts |
| HMEC | human mammary epithelial cell |

| | |
|------------------|--|
| <i>IDS</i> | <i>iduronate-2-sulfatase</i> gene |
| <i>IGFBP-3</i> | insulin-like growth factor-binding protein-3 |
| kb | kilobase pair |
| l | liter |
| LM-PCR | ligation-mediated polymerase chain reaction |
| LOH | loss of heterozygosity |
| M | mole |
| <i>MBD</i> | methyl-CpG binding domain protein |
| <i>MCAF</i> | MBD1-containing chromatin-associated factor |
| min | minute |
| MSP | methylation specific polymerase chain reaction |
| NME | normal mammary epithelium |
| NP-40 | Nonidet P- 40 |
| PBMC | peripheral blood mononuclear cells |
| PBS | phosphate buffered saline |
| PCR | polymerase chain reaction |
| PD | population doublings |
| PMSF | phenylmethylsulfonil fluoride |
| <i>RB</i> | retinoblastoma |
| <i>RASSF1</i> | Ras-association domain family 1 |
| RNA | ribonucleic acid |
| rpm | rotations per minute |
| RT | room temperature |
| RT-PCR | reverse transcription PCR |
| SDS | sodium lauryl sulfate |
| s | second |
| SA- β -gal | senescence-associated β -galactosidase |
| Tan | annealing temperature |
| Tm | measurement temperature |
| TBE | Tris-borate-EDTA buffer |
| TRF | telomere restriction fragment |
| Tris-HCL | tris |
| UV | ultra violet light |