Fig S1

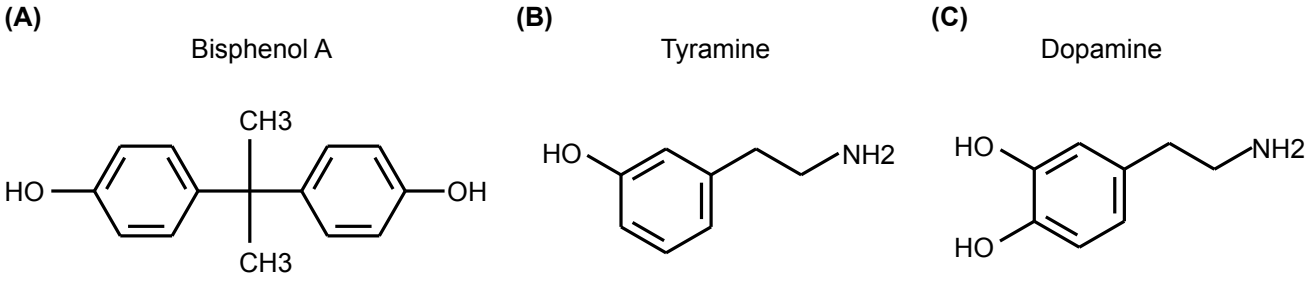

Fig. S1: Molecular structures of St form inducing chemicals; Bisphenol A, Tyramine and Dopamine.

Fig S2

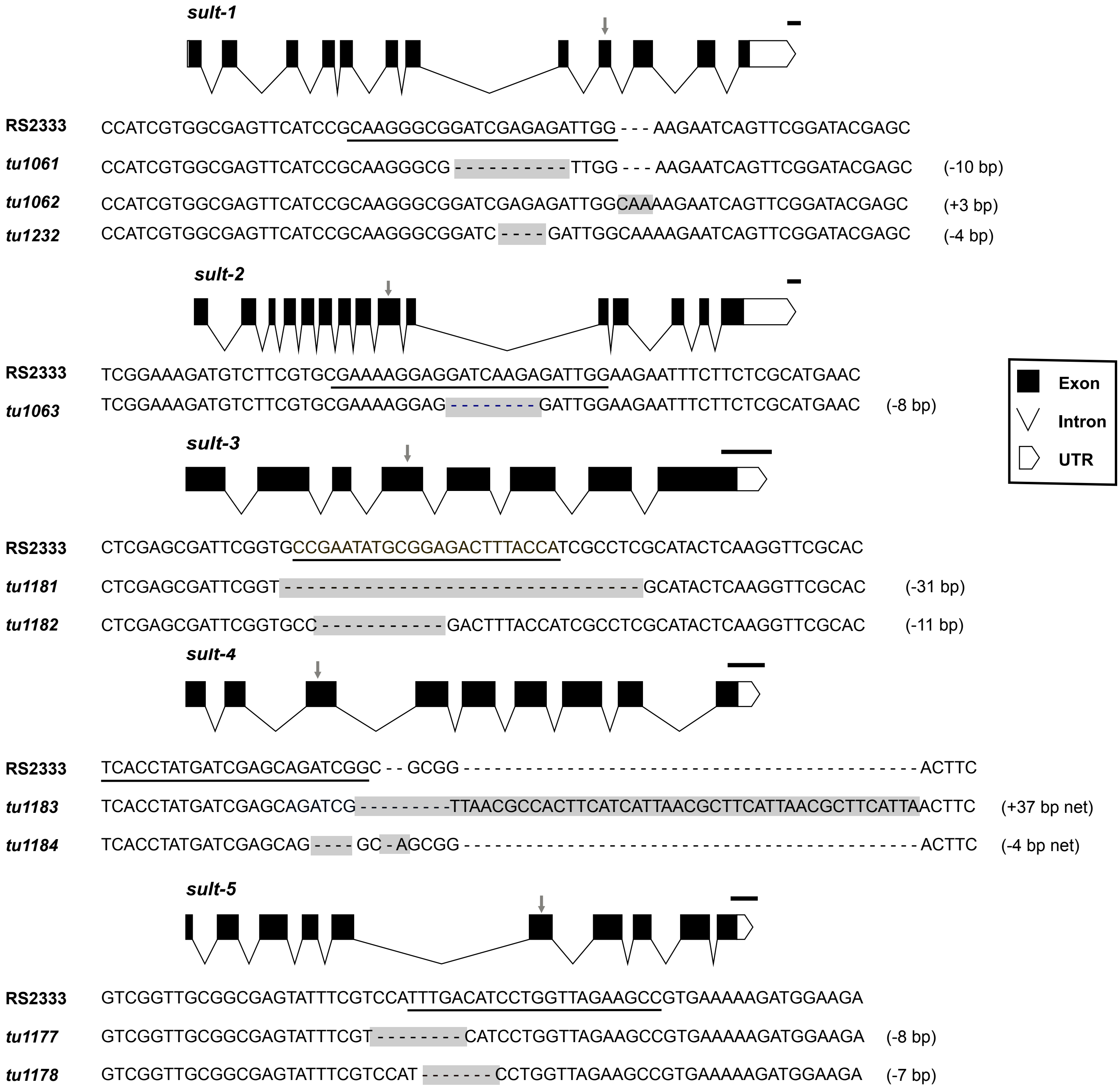

Fig. S2: Mutant alleles of sult-1, sult-2, sult-3, sult-4 and sult-5 produced using CRISPR/Cas9 technique. Arrows and underlined texts indicate sgRNA sequence including PAM of respective genes. Induced genetic lesions are highlighted in grey. Scale bar represents 100 bp.

Fig S3

```
WT                  MVPRADDVFICTYPKCGTTWIQHIVHQLLGKTEYETAVDDDENDNVACQPSSSSHEKSEE        60
sult-1(tu1061)      MVPRADDVFICTYPKCGTTWIQHIVHQLLGKTEYETAVDDDENDNVACQPSSSSHEKSEE        60
sult-1(tu1232)      MVPRADDVFICTYPKCGTTWIQHIVHQLLGKTEYETAVDDDENDNVACQPSSSSHEKSEE        60
                    ************************************************************

WT                  DEKKAMCFVSPMIERMGAAYSDTIKTPRVLKSHFTYKNIPKGGGAKYIFAVRNPKDCLTS        120
sult-1(tu1061)      DEKKAMCFVSPMIERMGAAYSDTIKTPRVLKSHFTYKNIPKGGGAKYIFAVRNPKDCLTS        120
sult-1(tu1232)      DEKKAMCFVSPMIERMGAAYSDTIKTPRVLKSHFTYKNIPKGGGAKYIFAVRNPKDCLTS        120
                    ************************************************************

WT                  YFHHNRNFKIYDYEHGEFDVFFKLFMDGKVGFGDYFDHLTSWLEGIEKAEERILFLKYED        180
sult-1(tu1061)      YFHHNRNFKIYDYEHGEFDVFFKLFMDGKVGFGDYFDHLTSWLEGIEKAEERILFLKYED        180
sult-1(tu1232)      YFHHNRNFKIYDYEHGEFDVFFKLFMDGKVGFGDYFDHLTSWLEGIEKAEERILFLKYED        180
                    ************************************************************

WT                  MVADLHSAVVQIASFLGGKAAEIIENDQKLAQIVEASTLASMKKNQQRWFPNKQLHRGEF        240
sult-1(tu1061)      MVADLHSAVVQIASFLGGKAAEIIENDQKLAQIVEASTLASMKKNQQRWFPNKQLHRGEF        240
sult-1(tu1232)      MVADLHSAVVQIASFLGGKAAEIIENDQKLAQIVEASTLASMKKNQQRWFPNKQLHRGEF        240
                    ************************************************************

WT                  IRKGGSRDWKNQFGYEQS-FEMD--KKFRER-CAGTAAAEWWHSEMA-WNVSRPVVAVEP        295
sult-1(tu1061)      IRKG--VGRISSDTSNPSKWTRSSGNAARAQPLPSGGTARWPGTSVDPSSLSNPSAKCLP        298
sult-1(tu1232)      IRKGGSIGRISSDTSNPSKWTRSSGNAARAQPLPSGGTARWPGTSVDPSSLSNPSAKCLP        300
                    ****   .  ..   : * :  .  :  * :   . .:*.*  :.:   .:*.* .   *

WT                  ISEVSSYSSSGFCSASPLSFTSSSLDLSSSLSSH-LRLPSVNPESDLCYSPAVEGPLDRD        354
sult-1(tu1061)      IRRRA----------------SAPPRLSPSLHHHWISLPHSH---RISDSPQ--------        331
sult-1(tu1232)      IRRRA----------------SAPPRLSPSLHHHWISLPHSH---RISDSPQ--------        333
                    * . :               *:   ** **  * : **  :    :. **

WT                  RVDSLQFPFDSLKIDDATEEQD      376
sult-1(tu1061)      ----------------------      331
sult-1(tu1232)      ----------------------      333
```

Fig. S3: Alignment of WT and mutant versions of SULT-1.
Multiple sequence alignment SULT-1 amino acid sequences in WT and mutant alleles tu1061 and tu1232 using clustal Omega.

Table S1: Sites for single guide RNA (sg-RNA) sequences

sult-1	GCAAGGGCGGATCGAGAGATTGG
sult-2	GAAAAGGAGGATCAAGAGATTGG
sult-3	TGGTAAAGTCTCCGCATATTCGG
sult-4	TATGATCGAGCAGATCGGCGCGG
sult-5	ATTTCGTCCATTTGACATCCTGG

Table S2: Primer sequences for qPCR of sulfotransferase genes after CRISPR

Gene	Forward primer	Reverse primer
sult-1	CAAAGATGGTTCCCTAACAAGCA	GATGAAGTGAAGGAGAGAGGCGA
sult-2	GGTTGGACTTGGTGATTACTTCG	GCTAGTTCTCATCTTCCAAGAACCC
sult-3	AGCGGTGGTGAAGCAAATGG	CCGGGAACTAAAGATTGTG
sult-4	GACGGCGATTCTTGTTGC	GGCCGTTTAGCCTGTATTGT
sult-5	CAGAATCTTACGTACCTT	GTAACTAGTGGAATTCTTGAA

Table S3: Primer sequences for examining *sult-1* expression levels with qRT PCR

Gene	Forward primer	Reverse primer
Ppa-sult-1	GTTCATGGATGGAAAGGTCGGATTCG	TGAGGCTTCGACTATCTGAGCCAG
Ppa-cdc-42	CTCTCTTATCCACAGACGGAC	GAAGGGAGTGCGTGAGCAGTG
Ppa-β-tubulin	CTCGGAGGAGGAACTGGATC	GACCGTGTCAGAGACCTTAG