

Supplementary Table 3. Comparison of results from treatment of cells, with OMC (27 ppm) alone, OMC plus UV, and UV alone. Treatment groups are listed, together with indications of their associated significant changes, for each gene.

*** p<0.05; ** p<0.01; *** p<0.00. ↑ significantly up-regulated genes relative to untreated controls; ↓ significantly down-regulated genes relative to untreated controls**

a) GM00498 cell line

Gene Names	3h OMC	6h OMC	24h OMC	3h UV	6h UV	24h UV	3h OMC+UV	6h OMC+UV	24h OMC+UV
APEX1								* ↑	** ↑
MPG									
OGG1									
DDB1									
DDB2				*** ↑					*** ↑
ERCC1									
XPA			** ↓						
XPC									
CAT									** ↑
SOD1									
SOD2									
MT1A					*** ↑	*** ↑			*** ↑
MT1B			* ↓		*** ↑	*** ↑			*** ↑
TP53									
GADD45A				*** ↑					*** ↑
JUN				*** ↑					*** ↑
FOS				*** ↑					*** ↑

b) MCF-7 cell line

Gene Names	3h OMC	6h OMC	24h OMC	3h UV	6h UV	24h UV	3h OMC+UV	6h OMC+UV	24h OMC+UV
APEX1								*** ↑	*** ↑
MPG									
OGG1			* ↓						
DDB1									
DDB2				*** ↑		* ↑			** ↑
ERCC1									
XPA			** ↓	* ↓					
XPC									
CAT	** ↓								
SOD1									*** ↑
SOD2					*** ↑	*** ↑			** ↑
MT1A	*** ↓	** ↓		** ↑	*** ↑	*** ↑	** ↑		*** ↑
MT1B						*** ↑			** ↑
TP53									
GADD45A				** ↑					** ↑
JUN				*** ↑	* ↑				*** ↑
FOS				*** ↑	* ↑			*** ↑	*** ↑