[O-13]

ALTERED GENE EXPRESSION IN RADIATION INDUCED TUMORIGENESIS OF NIH3T3 CELLS REVEALED BY MICROARRAY

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The recent development of cDNA microarray or cDNA chip technology has made it possible to analyze the expression of thousands of genes at once. In present study, we made radioresistant clones (#1 and #4) from NIH3T3 cells which are not tumorigenic and we identified 4 genes using microarray system, cdk6, cdc25B, mdm-2 and nidogene, which were altered in radiaiton resistanct NIH3T3 cells. Since these cells induced tumorigenesis, we may conclude that these gene alteration may affect tumor generation.

keyword : Radiation resistance, NIH3T3 cells, Tumorigenesis, Microarray