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## Anti-cancer potential of food extracts against oral and breast cancer cells

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In the present study, we have examined the anti cancer effects of plant extracts and curcumin on two oral cancer cell lines (SCC-9 and CAL-27), and a breast cancer cell line (MCF-7) and a non-cancerous breast epithelial cell line (MCF-10-A). The cell lines were obtained from ATCC (USA) and were grown using an ATCC recommended media and supplements. The results revealed extracts (F-1 and P-1) induced cell death and the number of dead cells were found to be more at 48 hours compared to 24 hours. However, the extracts mediated cell death was found to be concentration and time dependent, and varied with the cell line, as expected. In addition to the cell death, we have also investigated the effect of the extracts and curcumin on the rate of proliferation, and on the cell cycle. We observed significant amount of cell death, following the exposure to the food extracts. In summary, the results of the present study indicate that the daily use of these extracts might help in preventing cancer and in sensitizing cells to anti-cancer therapeutic treatments.

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