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## Synthesis of azomethines of anthrones and 10- arylidene anthrones and testing for anticancer and anti-aids activity

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A new series of azomethines of anthrones have been prepared by condensing anthrone with different primary amines, o-aminophenol, and p-aminobenzoic acid. Similarly, 10-arylidene anthrones with different functional groups were synthesized using acetic anhydride as well as ethanol as solvent. It is found that azomethines of anthrones prepared by condensing primary amines with the nitro group in p-position of aromatic ring indicate intense anticancer activity *in-situ* as compared to other azomethines of anthrones. It is also proved that azomethine group stabilized by aromatic ring shows anticancer activity, but nitro group in p-position of an aromatic ring can be considered for further investigation for the development of an anticancer drug, after doing detailed toxicity studies. Similarly, 10-arylidene anthrones with nitro group in p-position of the aromatic ring shows anti aids activity *in-situ*. However detailed studies of toxicity should be done before considering for further development of anti-aids drugs.

### Biography

Mahesh N. Sanzgiri MSc, PhD in organic chemistry from Bombay University in 1984 under guidance of Professor V. V. Nadkarny of St. Xavier's College, Mumbai. His research is dedicated to "study of few derivatives of anthrone and pheromones. His research work for application of derivatives of anthrone in anti-cancer and anti-aids activity is a new approach with synthesizing organic compounds using functional groups for trapping active cancer cells and removing aids activity. He is also working on isolation and synthesizing of Tiger pheromones from Tiger urine and preparing same molecule in lab synthetically by using chemical method. Its application is in Wild Perfumes. With wide experience in working with multinational German Chemical and Pharma Co. Merck in India for many years on responsible position, presently he works as a freelance scientist and consultant for doing research and development, also consultant for cGMP, WHO, USFDA, ISO etc. with various well-known Indian & multinational Indian and foreign companies.

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