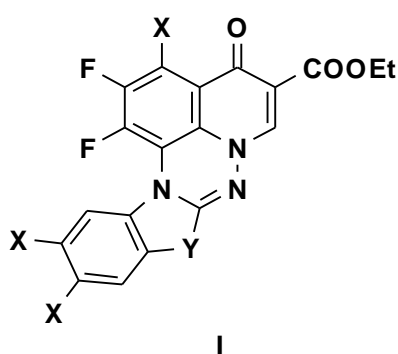


## Anticancer Activity of Condensed Derivatives of Fluorinated Quinolines and Quinazolines

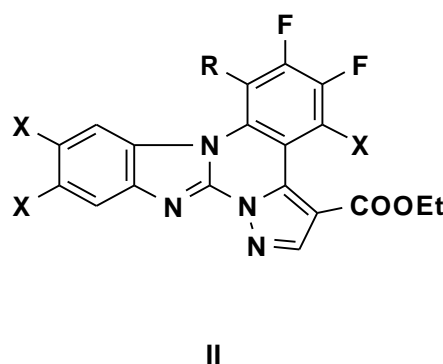
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A number of derivatives of novel heterocyclic systems of benzazolo[2',3':3,4]-1,2,4-triazino[5,6,1-*i,j*]quinolines (I) and benzimidazo[1,2-*a*]pyrazolo[1,5-*c*]quinazolines (II) have been obtained.



X = H, F; Y = NCH<sub>3</sub>, S



X = H, F; R = F, 4-methylpiperazino

I

Compounds I and II were tested as potential anticancer agents *in vitro* experiments against a number of cell lines, such as leukemia, lung cancer, melanoma, ovarian cancer, colon cancer, breast cancer, etc. Cytotoxic activity of the compound II (X=H, R= 4-methylpiperazino) against A549 (lung), SKOV-3 (ovarian) and SK-MEL-2 (melanoma) proved to be compared with that of Adriamicin which was used as a reference compound. Also the compound I (X=F Y= NCH<sub>3</sub>) exhibited a remarkable *in vitro* activity and was selected for further testing *in vivo* Hollow Fiber Assay.