SYNTHESIS OF . OTENTIAL ANTI-CANCER AGENTS.

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the field of heterocyclic nitrogen mustards because of their anticancer and anti-laukemic properties. Namethyl nitrogen mustards have been used in Hodgkin's disease, certain laukemia and carcinoma of treast and lungs. Aryl N.N.-di-2-chlorothyl derivatives were found to inhibit the growth of various enimal tumours. First heterocyclic uracil nitrogen mustard of motential anticancerous activity was synthesized by Baker etal. The half mustard such. S Ar.N(SO2R)CH2CM2C1 has been shown some promise in clinical trial by its unequivocal anticancer activity. S-fluotopracil was reported to show some effect on solid tumours but it was toxic. Phthalazones are physiologically active and its nitrogen mustards may not be toxic. Hence we decided to introduce monofunctional and bifunctional nitrogen mustards groups at 2-and 4-positions of phthalazone. A number of such nitrogen mustards have been synthesized in our laboratory and their anti-

cancerous property are under investigations.