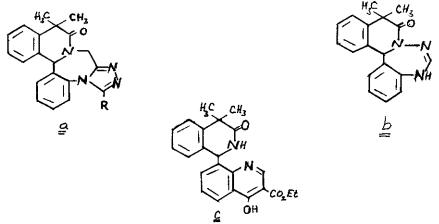
SYNTHESIS OF NEW HETEROCYCLIC COMPOUNDS CONTAINING 1,2,3,4-TETRAHYDROISOQUINOLINE OR 3-OXO-TETRAHYDROISOQUINOLINE RING. K.Gáll-Istók, <u>Gy.Deák</u> and ¹G.Tóth Institute of Experimental Medicine,H.A.S., ¹Department for General and Analytical Chemistry,Technical University,Budapest

The compound 1-(2'-amino-phenyl)-4,4-dimethyl-1,4-dihydro-3(2H)-isoquinolinone /I/ obtained by a methode published earlier /1/ proved to be a suitable starting material in the synthesis of new heterocyclic compounds with anellated isoquinoline or 3-oxo-tetrahydro-isoquinoline ring.



The cyclization of the N-chloroacetyl derivative of I with NaH, the subsequent selective $0 \rightarrow S$ replacement in the isoquinolino-benzo-diazepindion and the reaction of the thiaderivative with acylhydrazides resulted in the forming of new triazolo compounds $/\underline{a}/$. The reaction of I with dimethylformamide dimethyalacetale and the condensation of the dimethylaminomethylene derivative with hydroxylamine afforded two oximes, but only the E-isomer could be cyclised by heating into a triazepine ring containing new heterocycle $/\underline{b}/$. When starting from I we used ethoxymethylenemalonic ester for cyclization we obtained <u>c</u> isoquinolinone derivative. Similar reaction could be observed with 8-amino-2-methyl-4-phenyl-1,2,3,4-tetrahydroisoquinoline yielding the corresponding pyrido-isoquinoline. The new compounds synthetized by us have a moderate CNS activity.

/1/ Gy.Deák,K.Gáll-Istók,L.Hazai,L.Sterk: Synthesis 1975,393