

## **ABSTRACT**

Three problems of antimycobacterial compounds were solved in the work. a) It was synthesis of eight new halogenated 4'-alkylsalicylanilides with branched alkyl in position 4'. b) Synthesis of new halogenated 3-(4-alkylphenyl)-1,3-benzoxazin-2,4-(3H)-diones. ) with the branched alkyl on the phenyl. Seven new halogenated 3-(4-alkylphenyl)-1,3-benzoxazin-2,4-(3H)-diones were synthesized by reaction of salicylanilides and methyl chloroformiate. All the compounds were screened *in vitro* against three different strains of mycobacterium. The results were not finished at the time of diploma work. We assume according hypothesis of professor Waisser that the activity of the new compounds will be very perspective.