

## **Abstrakt: Potential antimycobacterial compounds activity evaluation**

The tuberculosis belongs to three the most extended infectious diseases in the world. It is the illness, which affects not only some states. On the contrary, yast majority of countries face with this problem. It is really important to co-operate with many countries to decrease the number of infected humen beings or even to root out this sickness. To eliminate the tuberculosis is one of priority tasks of the World Health Organization. It is also the aim of programme TAACF, which has been established by the Southern Research Institute.

The diploma work summarizes a lot of information about the tuberculosis and possibilities of treatment and prevention. The main part is devoted to the methodology of *in vitro* testing potential antimycobacterial active substances. In the practical part, there are showed the substances, which were I tested against four different mycobacterial strains on *in vitro* anti-tuberculotic activity.

*Keywords:* tuberculosis, antimycobacterial drugs, benzoxazoles, pyrazines, antimycobacterial activity, MIC