Development of novel drugs against tuberculosis and its multiresistant forms as a perspective of TB treatment

The project deals with the development of novel antitubercular agents active against resistant strains of Mycobacterium tuberculosis, dissemination of which is a serious global problem. The project is based on the collaboration of the Faculty of Pharmacy of the Charles University in Prague and Centre of Biological Defence in Těchonín. Faculty of Pharmacy deals with the design and synthesis of new molecules, evaluation of their toxicity and in vitro antimycobacterial activity, and with the determination of their mechanism of action. The evaluation of in vivo antimycobacterial activity is performed in Centre of Biological Defence in Těchonín, specialized institute fully equipped for handling with the most dangerous infection agents. Moreover, in vivo antituberculosis evaluation is not performed anywhere in the central Europe, therefore this research is unique in this European region.

Selected outputs