

Design and synthesis of new heterocyclic scaffolds with potent antimicrobial activity)

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Anotation:

The aim of this work is design and synthesis of new heterocyclic compounds with potent biological activity, antimicrobial in particular. Set of compounds will be synthesized employing of solution phase and/or solid phase synthetic approach. Final compounds will be further modified according to biological activity testing. Alternatively, new pharmacophore will be investigated. Since tuberculosis (TB) is an infectious disease that is one of the top 10 causes of deaths and the first bacterial cause of mortality worldwide, this thesis will be focused on the development of new anti-TB active compounds. The increasing prevalence of multidrug-resistant *MTB* necessitates the discovery and development of novel drugs against tuberculosis with novel mechanism of action.