Abstract

Title of rigorous thesis:

Derivates of 5-methylpyrazine-2-carboxylic acid as potential drugs

Introduction of rigorous thesis is about tuberculosis, its occurence in the world, drug resistence, pathogenesis, diagnosis, prevention and treatment, about used and developed drugs. Further, I describe methods of carboxylic acid amides preparation, schemes of reactions and six prepared anilides. These are characterized by melting temperature, elemental analysis, IR, ^{1}H and ^{13}C NMR spectroscopy. Synthetized compounds were tested *in vitro* for antituberculotic, antifungal and herbicidal activity. Also values of lipophilicity log *P* and log *K* were gained. Relationship between biological activity, chemical structure and lipophilicity of prepared substances was evaluated.