

## Diploma thesis

### **Rhodanine derivatives as potential drugs III.**

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In the first part of the diploma thesis there is generally written about different types of tuberculosis in the various aspects as ethiology, pathogenesis and pharamacotherapy. The second part is focused on the newly tested potential antituberculosic drugs. Especially in the third part there are mentioned different drug targets of these promising antituberculosics. Finally the fourth part of the theoretical introduction briefly summarizes currently used drugs in the treatment of this infectious disease.

The experimental work deals with number of synthesis of following compounds:

5-(3-bromobenzylidene)-2-thioxo-1,3-thiazolidine-4-one, 5-(2-bromobenzylidene)-2-thioxo-1,3-thiazolidine-4-one, 5-(3-chlorobenzylidene)-2-thioxo-1,3-thiazolidine-4-one, 5-(2-chlorobenzylidene)-2-thioxo-1,3-thiazolidine-4-one, 5-(4-fluorobenzylidene)-2-thioxo-1,3-thiazolidine-4-one, 5-(3-fluorobenzylidene)-2-thioxo-1,3-thiazolidine-4-one, 5-(2-fluorobenzylidene)-2-thioxo-1,3-thiazolidine-4-one, 5-(pyridine-4-ylmethylidene)-2-thioxo-1,3-thiazolidine-4-one, 5-(pyridine-3-ylmethylidene)-2-thioxo-1,3-thiazolidine-4-one, 5-(furan-2-ylmethylidene)-2-thioxo-1,3-thiazolidine-4-one.

All synthesized compounds were tested for an antifungal and antibacterial activity in conclusion.