

## **Abstract:**

The presented diploma thesis is built on my bachelor thesis and deals with the study of preparation of *ortho*-substituted 3-phenylflavins. The target is preparation of 3-*ortho*-tolylflavin and 3-*ortho*-tolylflavin-*N*-oxide and their potential transformation to diastereomeric *ortho*-substituted flavin-amides or flavin-esters. Obtained substances could be tested as potential catalysts for redox reactions, especially for enantioselective sulfoxidations.