

## ABSTRACT

This thesis focuses on finding a possible link between genotype typical for Gilberts syndrome and specific diseases. It investigates a possible protective effect of the 7TA allele. It explains the origin, symptoms, pathology of this syndrome and its consequences for clinical medicine. Possible protective effect of this polymorphic mutation including reduced incidence of vascular diseases (myocardial infarction, stroke, atherosclerosis, etc.) is discussed. Reduced oxidative stress in hyperbilirubinaemia can be the mechanism behind. The work was carried out in the co-operation with the GENVIA laborator.