

## SUMMARY

First part of our work aimed to isolate flavonoids from leaves of *H. annuus*. The leaves were macerated and the resulting water extract was further processed – shaking using dichloromethane, separation on silica gel, isolation of substances using preparative chromatography. We managed to obtain pure substance which was submitted for identification using NMR analysis. Obtained butanol fraction will be further processed.

Second part of our work focused on the assessment of biological activity of extracts and fractions. Acute toxicity tests, antioxidant activity tests (DPPH test, FRAP method) and antimycotic activity test were carried out. The ethanol extract showed positive results in all applied tests and appears to be the most promising.