Study of Drugs and Other Biologically-Active Substances Perspective in Prevention and Treatment of Important Lifestyle Diseases

The aim of the project is to study newly used drugs in clinical medicine as well as biologically-active substances of natural origin from the perspective of the prevention and treatment of important lifestyle diseases, especially cardiovascular and oncologic diseases and degenerative diseases associated with human ageing. The project involves studying the influence of significant biological markers in the early diagnosis of these diseases along with the identification of new potential biomarkers and the isolation and identification of new enzymes as a potential targets for the inhibition associated with the therapy of these diseases. An integral part of the project is the isolation and identification of new substances of natural origin, especially those with anti-oxidation activity in relation to the prevention of cardiovascular and oncologic diseases.

This multi-discipline project directly follows and significantly extends the collaboration of perspective researchers from several departments of the Faculty of Pharmacy, Charles University in Hradec Králové dealing with study of effect of biologically active compounds in the prevention and treatment of lifestyle diseases.

Selected outputs