

Biological activity of the fraction as well as isolated molecules from widely distributed and locally Balkan endemic plants

Abstract

The present project will be focused on the study of the bioactive compounds from the medicinal plants in Serbia. The obtained extracts will be assayed using antitumor, antimicrobial, immunomodulatory, anti-diabetes, anti-obesity, antioxidant experimental models. Based on the bioassay results, the medicinal plants with potent bioactivities will be further studied to afford pure compounds. Isolated compounds will be assayed *in vitro* and *in vivo* to evaluate their functions. Finally, the lead compound will be selected and performed drug-ability study. The objectives are to elucidate the bioactive substances, discover small molecule probe for functional study, and more importantly provide lead compounds for the development of innovative drugs.

Partners:

1. **Institute of Materia Medica, Chinese Academy of Medical Sciences**
2. **University of Kragujevac** (Faculty of medical sciencesA and Faculty of science)
3. **University of Belgrade** (Faculty of agriculture, Institute of biological Research, Institute of Nuclear Sciences)