

Summer Research Internship Project Proposal

Project Topic	Isolation of selected chemical constituents from different parts of <i>Ficus</i> species		
Name	PharmDr. Milan Malaník, Ph.D.	Field	Phytochemistry
Department	Department of Natural Drugs	Keywords	Ficus

Description of the Project (overview, expected outcomes, reason for research, proposed outcomes for student(s))

Genus *Ficus* is comprised of more than 850 species and many of them are still not well-explored. According to the literature, plants of genus *Ficus* are sources of various secondary metabolites. Therefore, this project is focused on the preparation of the extract of different parts of *Ficus* species and their phytochemical profiling. Subsequently, selected extract will be subjected to chromatographic separation in order to isolate pure compounds that will be provided to evaluate their biological activity. The acquired knowledge will serve as the starting point for the work in the phytochemical laboratory.

Student Requirements (prerequisites, experience, acceptable fields of study, etc.)

- Basic knowledge about chromatographic techniques (TLC, CC, HPLC)
- Enthusiasm and interest in the work in phytochemical laboratory

Proposed responsibilities of the student(s)

- Preparation of the samples
- Chromatographic separation
- Preliminary identification of pure compounds

Additional important information (max. number of students, additional staff/faculty involved, etc.)

- Max. 2 students