

# Laboratory for the Synthesis of Natural Steroid Hormone Derivatives

*synthesis, androgens, estrogens, structural modifications*

Steroids are the compounds with good pharmacological capacity. Modifications of the steroidal skeleton can result in the development of novel synthetic derivatives with major biological response. The main goal of our research is the synthesis of new steroidal derivatives, starting from natural, primarily, androgenic and estrogenic hormones. Another important subject of our research is biological testing of synthesized compounds. In collaboration with colleagues from other research groups the testing of antihormonal and antitumor potentials is carried out. Our research group is open for cooperation in order to investigate further biological activity of the synthesized compounds.



## SELECTED PROJECTS

**Title:** *Synthesis, characterization and biological investigation of steroid derivatives and their molecular aggregates, Ministry of Education, Science and Technological Development of the Republic of Serbia*

**Type:** basic research

**Duration:** 2011-2019

**Contact person:** Dr Marija Sakač

## SELECTED EQUIPMENT

- Bruker Avance III 400 MHz NMR spectrometer
- Perkin-Elmer SpectrumTwo FTIR spectrometer
- Microwave Synthesis Sistem-CEM Discover BenchMate
- High-pressure laboratory autoclave Roth Karlsruhe (100 mL)

## COLLABORATIONS

- Laboratory of biochemistry and molecular biology, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Serbia
- Oncology Institute of Vojvodina, Faculty of Medicine, University of Novi Sad, 21204 Sremska Kamenica, Serbia

## CONTACT PERSON

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