

<b>Level:</b> PhD				
<b>Course title:</b> Selected experimental methods for determination of bioactivity (DSB612)				
<b>Status:</b> elective				
<b>ECTS:</b> 15				
<b>Requirements:</b> none				
<b>Learning objectives</b> The goal of this course is to provide students with advanced theoretical knowledge for estimating biological activities of pharmacologically active substances and natural products.				
<b>Learning outcomes</b> Students will be able to independently select, adapt, develop and implement methods for testing different biological activities and determine the potential of tested compounds.				
<b>Syllabus</b> <i>Theoretical instruction:</i> Estimation of biological activities of pharmacologically active substances and natural products. <i>In vitro</i> , <i>in vivo</i> and <i>ex vivo</i> assays. Analysis of the principle of selection of appropriate methods, substrate, target molecules, activators / inhibitors, biological response, ways to detect biological activity and present results. Detailed analysis of the determination of anti-inflammatory, antioxidant, cytotoxic and antimicrobial activities. Selected examples of <i>in vitro</i> , <i>in vivo</i> and <i>ex vivo</i> methods for investigation of various biological activities.				
<b>Weekly teaching load</b>				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	