

**LIST OF DISSERTATION TOPICS AND POSSIBLE SUPERVISORS IN BIOLOGY  
2017**

<b>Possible dissertation theme</b>	<b>Possible dissertation topic</b>	<b>Institution</b>	<b>Supervisors</b>
1. Development of new <i>in vitro</i> experimental models for chronic neurodegenerative diseases using human neuroglial cells	Development of new <i>in vitro</i> experimental models for chronic neurodegenerative diseases using human neuroglial cells	State Research Institute Centre for Innovative Medicine	Dr. Augustas Pivoriūnas
2. Development and Research of Novel Immunotherapeutic Approaches for cancer treatment	Pharmacological modulations of DNAses for enhancement of antitumor effectiveness of chemotherapy, radiotherapy and cryoablation in combinations with immunotherapeutic anticancer vaccines in murine model	State Research Institute Centre for Innovative Medicine	Dr. Vita Pašukonienė
3. Research of molecular and cellular immunity in biological models in vitro and in vivo	Influence of proliferation characteristics of target cells on cytotoxic immune reactions	State Research Institute Centre for Innovative Medicine	Dr. Dainius Characiejus
4. Adult stem cells and cells of higher differentiation. Involvement in tissue regeneration	<p>1. Investigation of adult mesenchymal stem cells and cells of higher differentiation in 2D and 3D regeneration systems <i>in vitro</i>. Search of potential physical therapeutic approach.</p> <p>2. Investigation of adult mesenchymal stem cells and</p>	State Research Institute Centre for Innovative Medicine	Dr. Eiva Bernotienė Dr. Daiva Bironaitė

	regulation of their regenerative mechanisms <i>in vitro</i> . Involvement of chaperones.		
5. Research into the status of environmental quality, patterns and mechanisms of the structure, functioning, sensitivity, vulnerability, genetic diversity, adaptatio and microevolution on natural ecosystems, habitats, species and communities ander global change and arthropogenic impact, and the development of theoretical fundamentals and projections		Nature Research Centre	Dr. Daiva Burokienė
6. Investigation into diversity and expression of functional genes of microorganisms in Lithuanian freshwater ecosystems		Nature Research Centre	Dr. Dalius Butkauskas
7. Extraction and characterization of chitin and chitosan		Vytautas Magnus University	Prof. dr. Ingrida Šatkauskienė
8. Biological and ecophysiological characteristic of chitin from diffrent species	Chitin qualitative properties investigation by using and optimizing different extraction	Vytautas Magnus University	Doc. Vaida Tubelytė Doc. Vykintas Baublys

9. Diversity of spice and aromatic plants, their introduction ex situ investigations and rational use		Vytautas Magnus University	Prof. dr. Ona Ragažinskienė
10. Investigation of vectors and vector-borne parasites and pathogens	Dermanyssoidea (Acari: Mesostigmata) mites of mammals: species diversity and infection with pathogens.	Vytautas Magnus University	Prof. dr. J. Radzijeuskaja Prof. dr. A. Paulauskas
11. Impacts of low dose radiation exposure		Vytautas Magnus University	Doc. dr. Saulius Mickevičius
12. Stability of vegetation component of Lithuanian river ecosystems under anthropogenic effect		Vytautas Magnus University	Prof. dr. Eugenija Kupčinskienė