

<b>General Information</b>			
<b>Course name and code</b>	Experimental Oncology ÚBEV/EXON/04	<b>ECTS Credits</b>	5
		<b>Semester</b>	2nd (Summer) Doctoral Degree
<b>Aims</b>			
<p>The purpose of this course is to explain the principles of malignant transformation of cells, to acquaint students with possibilities to prevent cancer and with preclinical testing of chemopreventive substances, with focus on <i>in vivo</i> experiments.</p>			
<b>Contents</b>			
<p>Malignant transformation of cells, causes. Classification of carcinogens. Molecular basis of carcinogenesis, oncogenes and tumour suppressor genes. Cell cycle control, regulation of cell viability. Cell integrity maintenance, tumour metastasis. Experimental models of carcinogenesis with focus on mammary carcinogenesis. Possibilities of prevention and treatment of tumour diseases. Cancer chemoprevention with natural and synthetic compounds. Testing of chemopreventive agents.</p>			
<b>Assessment Methods and Criteria</b>			
<p>Oral exam.</p> <p>Grading Scale (in %): A ... 100 - 91%, B ... 90 - 81%, C ... 80 - 71%, D ... 70 - 61%, E ... 60 - 51%, Fx ... &lt; 51%</p> <p>Grading System: The University recognises the following six degrees for the evaluation of the study results:</p> <ul style="list-style-type: none"> <li>a) A – excellent (excellent results) (numerical value 1)</li> <li>b) B – very good (above average results) (1.5)</li> <li>c) C – good (average results) (2)</li> <li>d) D – satisfactory (acceptable results) (2.5)</li> <li>e) E – sufficient (results meet the minimum criteria) (3)</li> <li>f) FX – failed (requires further work) (4)</li> </ul>			
<b>Bibliography</b>			
<p>Weinberg R.A.: The Biology of Cancer. Garland Science, 2007            Ahmed N. et al.: Biology of Disease, Taylor &amp; Francis 2006            Waugh A., Grant A.: Ross and Wilson Anatomy and Physiology in Health and Illness. Churchill Livingstone Elsevier, 2010</p>			