

<b>Course description</b>	
<b>Course</b>	Molecular Biology
<b>Department</b>	Department of Anatomy and Histology
<b>Language</b>	English
<b>Nature</b>	Optional
<b>Year/semester</b>	1st year, spring-term
<b>Credits (ECTS)</b>	
<b>Lectures (hour/semester)</b>	
<b>Plenary lectures (hour/semester)</b>	
<b>Practicals (hour/semester)</b>	
<b>Responsible teacher</b>	dr. Veronika Jancsik
<b>Teacher(s)</b>	dr. Veronika Jancsik, dr. Norbert Solymosi , dr. Nóra Vili, dr. Szilvia Pásztory-Kovács, dr. Gábor Mátis, dr. Petra Zenke. Further lecturers to be announced later.
<b>Prerequisites</b>	
<b>Learning outcome</b> (include skills and competencies, if any)	
<b>Outcome assessment</b>	
Weekly schedule of lectures and practicals	
<b>Recommended literature</b>	
<b>Note(s)</b>	
<p>Lectures and practicals will be given during the exam period, on four consecutive days (4 x 5 h).  The following topics will be discussed.  Theoretical: Gene, genome, epigenome. Genetic engineering. New generation genome sequencing. Molecular markers.  The significance of these subjects in various professional disciplines of the veterinary practice and research will be highlighted.  Practicals: laboratory techniques from sample collection to PCR analysis. Use of online genome databases.</p>	