

Subject name	Cell Signalling	
Subject code	H.KFZa.CEL9.SM.HZOBY	
Department	Animal Physiology and Endocrinology	
Faculty	Animal Sciences	
Subject supervisor/Lecturer	Professor Krystyna Koziac	
General information	semester	winter
	ECTS credits	4
	Lectures total	30
	Laboratories	0
Objective and general description	<p>Students will study the types and processes of cell communications. The types of signaling -endocrine, immune and nervous. Types of cell receptors, classes of antibodies and immunity. Diseases of cell communication system. Intracell mechanisms of action.</p> <ol style="list-style-type: none"> 1. Types of communications 2. Processes of communications 3. Reasons of cel communication 4. Cell -cell chemical signalling 5. Responses of cells 6. Endocrine communications 7. Role of hormones 8. Hormones structure 9. Hormones action 10. Regulation of blood glucose 11. Nervous-endocrine interaction 12. Anterior pituitary hormones 13. Hormones regulating metabolism 14. Hormones of the hypothalamus 15. Immune system roles 16. Lymphoidal system 17. Development of red and white cells 18. Lines of defense 19. Leukocytes 20. Inflammatory responses 21. Fewer 22. Structure of antibody (Ab) 23. Classes of Ab 24. Cell mediated immune responses 25. The aim of vaccination 26. Passive immunity 27. Blood types 28. Autoimmune diseases 29. Key attributes of immune system 30. Types of receptors 31. Steroid hormones receptors 32. Protein receptors 33. Cell surface receptors 34. G-protein receptors 35. Cholinergic receptors 	

Assessment method	examination
References	Alberts et al. Molecular biology of the cell. V ed.2008