

**Discussed and confirmed  
on the methodical council  
of the department  
August 27, 2021**

**HISTOLOGY INDEPENDENT WORK  
for students of Faculty of General Medicine, 2nd year,  
Autumn semester. Academic year 2020-2021.**

№	Topic	Amount of hours	Terms of exploring
1.	Embryonic development of nervous system. Derivatives of neural tube.	4	6.09-12.09
2.	Concepts of basic structural components of blood-brain barrier.	4	13-19.09
3.	Histophysiology of the eye. Thin ultrastructure of rods and cones.	4	20-26.09
4.	Histophysiology of the ear.	4	27.09-3.10
5.	Histophysiology of the microcirculatory bed.	4	4.10-10.10
6.	Embryonic hematopoiesis.	4	11.10-17.10
7.	Structural peculiarities and functional meaning of spleen.	3	18.10-24.10
8.	Age-related and accidental involution of thymus	3	25.10-27.10
9.	Hypothalamic-pituitary relationships in the regulation of endocrine functions.	3	28.10-30.10
10.	Cytophysiological aspects of synthesis and secretion of catecholamines and steroid hormones.	3	31.10-1.11
11.	Embryonic development of digestive system.	3	2.11-3.11
12.	Relationship of structural and functional peculiarities of oral cavity.	3	4.11-7.11
13.	Perimembranous and luminal digestion. Peculiarities of absorption of different types of nutrients.	3	9.11-10.11
14.	Cytophysiological aspects of synergic and antagonistic functions of islet cells of different types.	3	11.11-14.11
15.	Relationship of morphology and functional features of the liver.	3	15.11-21.11
16.	Air-blood barrier. Surfactant and its functions.	3	22.11-28.11
17.	Endocrine function of kidneys. Morphological aspects of renin-angiotensin system functioning.	3	29.11-5.12
18.	Spermatogenesis-hormonal regulation.	3	6.12-12.12
19.	Relationship of ovarian and menstrual cycles. Morphofunctional aspects Morphofunctional aspects of the use of hormonal contraceptives.	3	13.12-19.12
20.	Basics of histocompatibility as the key aspect of in vitro fertilization method.	3	20.12-24.12

**In total**

**65 hours.**

**Chief of the Department  
of Histology and Embryology, Assoc. Prof.  
Deputy for Academic work, Assoc. Prof.**

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Olha Yuzych, PhD**