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Course title: PATHOMORPHOLOGY III

ECTS credit allocation (and other scores): 3

Semester: spring

Level of study: ISCED-7- long-cycle programmes (EQF-7)

Branch of science: Agricultural sciences

Language: English

Number of hours per semester: 45

Course coordinator/ Department and e-mail: dr hab. Iwona Otrocka-Domagala, Department of Pathological Anatomy, i.otrocka-domagala@uwm.edu.pl

Type of classes: classes and lectures

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#### Substantive content

**CLASSES:** The aim of the laboratory classes is to familiarize students with the morphological changes of the internal organs and tissues of cows, pigs, horses, sheep, goats, carnivores and rabbits, resulting from selected infectious (bacterial, viral, fungal and prion) diseases. During the classes the student performs necropsy of various animal species (farm animals, pet animals), acquires the ability to recognize gross changes, characteristic for certain infectious diseases. Furthermore, the student learns how to sample tissues for additional tests (bacteriology, virology etc.) during necropsy.

**LECTURES:** Lectures in pathology III include morphological changes observed macroscopically (gross changes) in organs of farm and pet animals (cows, pigs, sheep, goats, horses, carnivores and rabbits), resulting from various infectious and parasitic diseases. Furthermore, lectures also include etiology and pathogenesis of infectious diseases, and the application of the necropsy in the diagnostic process of the infectious diseases.

**Learning purpose:** The recognition of morphological changes in animal organs during various (particularly infectious) diseases.

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**Knowledge:** Recognizing and describing of macroscopic changes in tissues during infectious diseases of farm and pet animals.

**Skills:** Necropsy performing, with the interpretation of the observed lesions (particularly in infectious diseases).

**Social Competencies:** Using of pathomorphological terminology in dealing with other veterinarians or professional organizations.

#### Basic literature:

- 1) J.F. McGavin, M.D. Zachary, Pathologic Basis of Veterinary Disease 5th ed., Mosby, 2012
- 2) Kumar V., Abbas AK, Aster J. Robbins Basic Patology, 10<sup>th</sup> ed., Elsevier 2017.
- 3) Maxie MG, Jubb, Kennedy & Palmer's Pathology of Domestic Animals (6<sup>th</sup> Ed.), Elsevier, t.1-3, 2015.
- 4) Greene C.E. Infectious Diseases of the Dog and Cat, Saunders, 2012.

#### Supplementary literature:

- 1) Withrow, Withrow and MacEwens's Small Animal Clinical Oncology, Elsevier, 2012
- 2) J. Rothuizen et al., WSAVA Standards for Histological and Clinical Diagnosis of Canine and Feline Liver Diseases, Elsevier, 2006

- 3) Meuten DJ, ed, Tumors in Domestic Animals. 5th ed., Blackwell, 2017
  - 4) M.L. Jackson, Veterinary Clinical Pathology, Blackwell Science, 2011
  - 5) J. van Dijk et al., Color Atlas of Veterinary Pathology, 2nd ed., Saunders, 2007
  - 6) V. Valli, Veterinary Comparative Hematopathology, Blackwell, 2007
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The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 45

Student's independent work: 15