Zgłoszenie propozycji zajęć seminaryjnych dla Szkół Doktorskich

Dr n. med. Tomasz Kun

Katedra Patologii Ogólnej i Doświadczalnej

1. Temat zajęć:

   „Introduction to pathophysiology of most common disorders”

2. Proponowane daty, godziny oraz miejsce realizacji zajęć:

   5 seminars (4 hours each), 03/DEC/2026, 10/DEC/2026, 17/DEC/2026, 14/JAN/2027, 21/JAN/2027 – 16:00-19:00

   Departement of General Pathology, Zeligowskiego 7/9

   (jesteśmy całkowicie otwarci na dowolną zmianę daty i czasu zajęć)

3. Forma zajęć: stacjonarna lub online:

   - zajęcia stacjonarne (istnieje możliwość przeprowadzenia zajęć online)

4. Profil zajęć: - interdyscyplinarne

5. Dyscyplina naukowa, w której mieszczą się zajęcia: medycyna, nauki o zdrowiu

6. Imię i nazwisko koordynatora zajęć: Tomasz Kun

7. Jednostka organizacyjna odpowiedzialna za przeprowadzenie zajęć:

   Katedra Patologii Ogólnej i Doświadczalnej UM w Łodzi

8. Dane kontaktowe jednostki organizacyjnej:

   Ul. Żeligowskiego 7/9, 90-752 Łódź

   Tel. 602741011

9. Sylabus zajęć w języku angielskim:

Course aims:

Classes are prepared to cover the detailed pathophysiology of multiple diseases affecting human organism. Case-based presentations explain the pathogenesis of homeostatic imbalances and mechanisms leading to formation of morphologic changes in affected organs and systems.

Seminar 1 – Neoplasia

- Nomenclature and characteristics of benign and malignant neoplasms.

- Neoplasm development and malignant phenotype: abnormal signal transduction, examples of carcinogens and carcinogenesis, tumor growth and development, mechanism of metastasis, TNM classification.
- Pathophysiology of malignant disease, paraneoplastic syndromes and cachexia.

Seminar 2 – Inflammation

- Pathophysiological and molecular mechanisms of inflammatory response
- Elevated body temperature and fever. Pathophysiology and phases of fever
- Acute phase response and proteins

Seminar 3 – Endocrine disorders

- Disturbances of the pituitary gland, the thyroid gland, the parathyroid gland, the suprarenal gland
- Disturbances of the suprarenal gland, gonads
- Pathogenesis of stress reaction

Seminar 4 - Diabetes Mellitus

- IDDM and NIDDM pathogenesis
- Secondary diabetes pathogenesis
- Acute and chronic diabetic complications (diabetic ketoacidosis, Hyperosmolar nonketotic coma, Lactic acidosis, Diabetic nephropathy, neuropathy and retinopathy, diabetic foot)

Seminar 5 - Pathophysiology of Kidneys

- Pre-renal, renal and post-renal acute renal failure.
- Chronic renal failure and End-stage renal disease. Renal osteodystrophy. Uremic encephalopathy.
- Proteinuria.
- Nephrotic syndrome

Course objectives:

Knowledge:

Students should learn to explain pathophysilogical mechanisms underlying mofological changes and clinical symptoms seen in patient organism.

Skills:

Ability to use the theoretical knowledge about patomechanisms of diseases to plan diagnostic and therapeutic process in clinical practice.

Attitudes and transferrable (generic) competencies:

Students understand the need for continuous self-improvement to the rapid progress of biomedical sciences. Demonstrate awareness of the importance of knowledge of the pathological processes and demonstrate a willingness to use this knowledge for educational purposes. Students are prepared to cooperate in a team to solve clinical problems.

Required and recommended learning resources (readings):

- Cotran RS. “Robbins Pathologic Basis of Disease” 6th edition,
- McPhee SJ. “Pathophysiology of Disease” 4th edition

10. Limit liczby uczestników: 15 osób

11. Czas trwania zajęć: łącznie 20 godz. (5 x 4 godz.)