

PHARMACOLOGY AND TOXICOLOGY 1/2

CLASSES/SEMINARS-III YEAR of MEDICINE; SEMESTER V English

Division, WINTER 2026

(30hrs seminars, 30hrs classes; duration of classes 4 x 45 min)

TUTOR FOR THE SEMESTER: Piotr Jakubowski, PhD

No	Date, duration of classes	Topic	Lecturer
1	(Seminar) 7.10.2026 Behring center 107 Gr 2b/3:14-17. gr 1, 2a: 17-20	Basic pharmacology. Definition of drug and poison. Small molecules and biological drugs. Drug production, clinical trials. Branches and divisions of pharmacology. Generic name, trade name. Pharmacodynamics part I	Piotr Jakubowski, PhD
2	(Classes) 14.10: Behring center 107 Gr 1:14-17 Gr 2: 17-20 15.10: CSM 100D Gr 3:14-17 Erasmus: 17-20	Pharmacodynamics part II Pharmacokinetics: routes of administration; processes of absorption, distribution, metabolism and excretion; pharmacokinetic parameters: half-life, volume of distribution, drug clearance: drug interactions, therapeutic monitoring of drugs)	Piotr Jakubowski, PhD
3	(Seminar) 21. 10: Behring center 107 Gr 2b/3:14-17. 22.10 : CSM 100D gr 1, 2a: 14 – 17	Drugs affecting the autonomic nervous system	Michał Majewski, prof UWM
4	(Classes) 28.10: Behring center 14 Gr 1:14-17 Gr 3: 17-20 29.10: Behring center 14 Gr 2: 10,30-13,30 Erasmus: 13.30–16.30	Prescribing drugs: rules and practice	Piotr Jakubowski, PhD

5	(Seminar) 4.11: CSM c. 206 Gr 2b/3: 14-17. 5.11 : Behring center 107 gr 1, 2a: 14 - 17	Antibiotics part 1. Concepts in antibiotic pharmacology. Bacteriostatic vs Bacteriocidal antibiotics. Mechanisms of Action, complications of antimicrobial therapy. Rational use of antibiotics. Antimicrobial resistance Beta-lactam antibiotics.	Piotr Jakubowski, PhD
	9.11 Colloquium 13 – 13.45 CSM Lecture Hall Retake: 16.11, 13 – 13.45	Topics 1 – 3	Piotr Jakubowski, PhD
6	(Classes) Behring center 107 18.11 Gr 2:14-17 gr 3 : 17-20 19:11 Gr 1: 10-13 Erasmus: 13,45-16,45	Antibiotics part 2 –characteristics of specific groups of antibiotics	Piotr Jakubowski, PhD
7	(Seminar) Behring center 107 25.11 gr 1, 2a: 10,30-13,30 Gr 2b/3: 14 – 17	Antiviral and antifungal drugs: classification, mechanism of use, indications and contraindications. Adverse effects and interactions.	Michał Majewski, prof UWM
8	(Classes) Behring center 107 2.12: gr 2: 10.30 – 13.30 ; Gr 1:14-17 3.12 Gr 3: 11-14 Erasmus: 14 - 17	Antiparasitic and antiprotozoal drugs. Disinfectants, antiseptics, sterilants	Piotr Jakubowski, PhD
	7.12 Colloquium 8.15 – 9.00 CSM Lecture Hall Retake: 18.12: 9 – 9.45	Topics 5 - 8	Piotr Jakubowski, PhD
9	(Seminar) Behring center 107 9.12 Gr 2b/3:14-17. gr 1, 2a: 17-20	Introduction to CNS pharmacology: a) neurotransmitters and receptors b) blood-brain barrier c) classification of psychotropic drugs d) sedatives & hypnotics	Piotr Jakubowski, PhD
10	(Classes) Behring center 107 16.12: Gr 1:14-17 gr 2: 17-20 17.12: Gr 3: 14-17 CSM 106 Erasmus: 17-20	Antipsychotics & Antidepressants	Piotr Jakubowski, PhD

11	(Seminar) Behring Center 14 7.01.2027 Gr 2b/3: 8 -11 gr 1, 2a: 14-17	a) Anticonvulsants b) Pharmacological treatment of Parkinson's disease and other movement disorders. c) Medicines used in dementia syndromes	Piotr Jakubowski, PhD
12	(Classes) Behring center 107 13.01 Gr 1:14-17 gr 2: 17-20 14.01 Gr 3:14-17 Erasmus: 17-20	a) General anesthetics b) Local anesthetics c) Skeletal muscle relaxants d) Spasmolytic drugs	Kordas Aleksandra, DVM
13	(Seminar) Behring center 107 20.01 Gr 2b/3: 9-12 gr 1, 2a: 12.15 - 15.15	Pain treatment: a) Opioid analgesic b) Opioid antagonists c) Migraine treatment:	Piotr Jakubowski, PhD
	22.01 Colloquium 13 – 14.30	Topics 9 -13	Piotr Jakubowski, PhD
14	(Classes) Behring center 107 27.01: Gr 1:14-17 gr 2: 17-20 28.01: Gr 3:14-17 Erasmus: 17-20	a) Eicosanoids: Prostaglandins, thromboxane, leukotrienes . b) NSAIDs: non-selective and COX-2 inhibitors c) Acetaminophen and metamizole.	Piotr Jakubowski, PhD

Literature:

1. Rang & Dale's Pharmacology – 10th edition, Elsevier
2. Katzung, Basic and Clinical Pharmacology - 16th edition, McGraw Hill