



SUMMER SCHOOL

Applied and Clinical Pharmacology

Organisational info

At **Masaryk University, Brno, Czech Republic**

July 22–26, 2024 face to face part

July 19 and 29–31, 2024 online part

Ideal participants: **undergraduate medical students**

Application process

This summer school is for **free**. Travel and accommodation expenses may be covered via **Erasmus+ short mobility**. Start with contacting your **university's supervisor**:

- Joana Batuca, joana.batuca@nms.unl.pt
- Fabrizio de Ponti, fabrizio.deponti@unibo.it
- Simona Sonderlichová, simona.sonderlichova@upjs.sk
- Judith Sanabria Cabrera, sanabriajudith@gmail.com

Deepening
knowledge in
pharmacology and
pharmacotherapy.

Unique opportunity
to train prescribing
skills.

**Why should YOU
be part of THIS
summer school?**

Visiting Brno
and the Czech
Republic.

Meeting classmates
from different
countries.

Making new friends
across Europe.

Course programme

- ✓ TBL Lessons
- ✓ Medication Review Workshops
- ✓ Pharmacological Escape Room
- ✓ Hands-On Activities
- ✓ Collaborative Online Case Reports

3 ECTS

53 study hours

Content guarantors

PharmDr. Jitka Rychlíčková, Ph.D., BCPS
PharmDr. Lenka Součková, Ph.D.

About our TBL lessons...

The Summer school will be based on team-based learning (TBL) focused on a specific drug category or treatment of a condition. Each TBL lesson is preceded by an individual pre-class reading. The TBL lesson is then initiated by checking on understanding the information, first in an individual and then in a team-based rapid assessment test. This is followed by a virtual patient case report and a discussion of the individual topics. You can look forward to topics such as clinical pharmacology of antithrombotics, pain management, or principles of drug dosing in patients with renal or hepatic insufficiency. And much more.

BIP summer school coordinating person at Masaryk University: Jitka Rychlíčková, rychlickova@med.muni.cz

SUMMER SCHOOL of Applied and Clinical Pharmacology

General information:

BIP summer school coordinating person and content guarantor at Masaryk University:
PharmDr. Jitka Rychlíčková, Ph.D., BCPS rychlickova@med.muni.cz

The Summer School of Applied and Clinical Pharmacology is an activity of the Department of Pharmacology, Faculty of Medicine, Masaryk University, Brno, offered to international medical and pharmacy students who are interested not only in deepening their knowledge in pharmacology, clinical pharmacology and therapeutics, training the prescribing skills and developing the skills of medication optimization, but also in traveling, visiting the Czech Republic, and making new friends across Europe.

Education format, resources:

The Summer school will be based on **flipped classrooms and team-based learning (TBL)** focused on a specific drug category or treatment of a condition. An individual pre-class reading precedes each TBL lesson. The TBL lesson is then initiated by checking on understanding the information, first in an individual and then in a team-based **readiness assessment test**. A virtual patient case report and a discussion of the individual topics follow this. During summer school, we will also play an **escape game, practice a medication review and assessment of adverse effects, try to read and design a clinical trial, etc.**

The pre-class reading and video-recordings will be shared with the students before the first lesson. All materials are tailored to each individual lesson and are available in electronic and printable form. The access uses unique credentials (UCO generated for each student + password). Time allocation for **self-study is 3 hours per TBL lesson**.

Discussed topics:

- clinical pharmacology of analgesics, antihypertensives and diuretics, antipsychotics, antibiotics, antiemetics; drug-induced ion dysbalances and their therapies;
- reasonable prescribing, WHO-6-step in medical prescribing, medication review;
- practical pharmacovigilance
- principles of planning and designing clinical trials.

Requirements for the students:

General requirements:

- English at B1 level and above, basic knowledge of professional terminology in English,
- basic knowledge of general pharmacology (knowledge of pharmacodynamics and pharmacokinetics principles),
- basic understanding of special pharmacology (ability to classify drugs into groups, knowledge of the basic profile of drugs from the above groups - indications, contraindications, side effects)

Before and during classes:

- to attend all online and face-to-face sessions;
- be prepared - have studied pre-class reading, watching videos, prepared medication review of assigned cases;
- be active.

Venue:

The programme of Summer school will take place on the University campus, specifically in the [Simulation Centre of the Faculty of Medicine](#), Masaryk University (SIMU). The exact address is Kamenice 3, Brno, 625 00.

How do you get to Brno, where do you stay, and for how much?

Please visit the International student guide, where all the essential information is in one place: <https://czs.muni.cz/en/student-from-abroad/international-student-guide/how-to-get-to-brno>

Basic costs of living (generally applicable for longer stays)

- University residence with roommates: approximately 120–215 EUR/bed/month
- Private apartment with roommates: 200–400 EUR/bedroom/month
- Meal in a student canteen: 3–5 EUR
- student transportation pass:
 - for students < 26 y/o: 11 EUR/month; for students > 26 y/o: 22 EUR/month

As BIP Summer school is only for 1 week, please check the pricing here: <https://czs.muni.cz/en/student-from-abroad/international-student-guide/housing-at-mu>. Or contact Vera Chylikova chylikova@czs.muni.cz.

Preliminary schedule (without self-study):

July 19	13-14	Online premeeting
July 22	10-11	Opening Summer school
	12-16	TBL#1
July 23	9-13	TBL#2
	14-17	Medication review training
July 24	9-13	TBL#3
	14-17	Escape room
July 25	9-13	TBL#4
	14-17	Medication review training
July 26	9-13	TBL#5
	13-14	Closing face-to-face part
July 29	13-16	COIL#1 – case reports
July 30	13-16	COIL#2 – case reports
July 31	13-16	COIL#3 – case reports
		Closing Summer school

ERASMUS+ Blended Intensive Programme

If you are interested in deepening your knowledge in pharmacology, clinical pharmacology and therapeutics, training the prescribing skills and developing the skills of medication optimization and would like to participate in the summer school of applied and clinical pharmacology, please apply for Call for applications for short term Erasmus+ BIP student mobility – STUDY for the academic year 2023/2024.

CONDITIONS:

- GM students **4. - 6. year** of study,
- **English** at least at **B1 level**,
- Basic knowledge of **general pharmacology** (knowledge of pharmacodynamics and pharmacokinetics principles),
- Basic understanding of **special pharmacology** (ability to classify drugs into groups, knowledge of the basic profile of drugs from the above groups - indications, contraindications, side effects).

HOW TO APPLY:

For Slovak students:

Výzva na podávanie prihlášok na Erasmus+ krátkodobú ZIP študentskú mobilitu za účelom štúdia 2023/2024 (31.7.2024) https://www.upjs.sk/app/uploads/sites/9/2023/09/23_24-Vyzva-na-podavanie-prihlasok-na-Erasmus_KD-ZIP-studium_25.9.2023-1.pdf

For international students:

23_24 Call for application for Erasmus_short term study BIP (should be performed till 31.7.2024) https://www.upjs.sk/app/uploads/sites/9/2023/09/23_24-Call-for-application-for-Erasmus_study-BIP_25.9.2023.pdf

MORE INFORMATION

About summer school: simona.sonderlichova@upjs.sk

Administrative support: Mgr. Jana Fodorová, Department of International Relations and Faculty Presentation, jana.fodorova@upjs.sk.

PLEASE, **READ** all information provided **CAREFULLY** before asking questions.