



CAMPUS DE EXCELENCIA INTERNACIONAL



Universidad de  
Castilla-La Mancha



## Participating Universities



Università degli Studi  
Gabriele d'Annunzio  
(Italy)



Universidad de  
Castilla-La Mancha  
(SPAIN)



Università di Bologna  
(Italy)



Medical University  
of Sofia  
(Bulgary)



Università degli Studi  
di Napoli Federico II  
(Italy)



Comenius University  
Bratislava  
(Slovakia)

## Target audience:

Pharmacy, Chemistry, Medicine, Biology, other related to  
health care professionals.

## ERASMUS+ BLENDED INTEISIVE PROGRAMME 3 ECTS

Info: <https://www.uclm.es/albacete/farmacía>

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ERASMUS+

Blended Intesive Programme

# Drug Discovery and Development

Academic Year 2023-2024

FACULTY OF ALBACETE

June 28<sup>th</sup> to July 5<sup>th</sup>, 2024.

## Objectives

*Interdisciplinary Understanding:* To provide students with a comprehensive understanding of the interdisciplinary nature of drug discovery and development, encompassing areas such as pharmacology, toxicology, clinical research, and more.

*Practical Skills:* To equip students with practical skills necessary in the field of drug discovery, including the design and development of drugs, understanding mechanisms of drug action, and apply new technologies in clinical research.

*Innovative Learning:* To promote innovative ways of teaching and learning, leveraging the blend of online and physical mobility to enhance student engagement and learning outcomes.

*Inclusivity in Education:* To make international study and mobility accessible to a wider range of students, including those who may not be able to commit to long-term mobility, thus promoting inclusivity in education.

## Sessions

This BIP will be organized in a blended learning format that will include online and face to face sessions. A combination of theoretical and practical classes is proposed to fix the most important concepts. The online session will be delivered on the Microsoft TEAMS platform. The face to face session will be held at the Faculty of Pharmacy of the UCLM and the Botanic Garden Facilities. We are positive participants will enjoy a new experience and a new perspective to know how is the life of a drug since it is designed until it becomes marketable.

The courses will take place from  
June 28<sup>th</sup> to July 5<sup>th</sup>, 2024.

## Schedule of Activities

Date	Time	Topic
Friday, 28 June (online sesión)	9:00-9:30	Online Welcome
	9:30-10:00	Introduction to Drug Discovery. History of drug discovery. Dr. Inmaculada Posadas (Lecturer, Universidad Castilla-La Mancha)
	10:00-10:30	Introduction to Drug Discovery. Overview of the drug discovery process. Dr. Garaj Vladimír (Lecturer, Comenius University Bratislava)
	10:30-11:00	Break
	11:00-11:30	Pharmacology. Drug absorption, distribution, metabolism, and excretion (ADME). Dr. Gabika Greifova (Lecturer, Comenius University Bratislava)
	11:30-12:00	Pharmacology. The application of pharmacology in basic research Dr. Patrizia Romualdi (Lecturer, Università di Bologna)
	12:00-12:30	Medicinal Chemistry. Design and synthesis of therapeutic agents and SAR. Dr. Joaquín Calixto García (Lecturer, Universidad Castilla-La Mancha)
	12:00-13:00	Cell Biology. Experimental cell models and biological assays. Dr. Susi Zara (Lecturer, Università degli Studi Gabriele d'Annunzio),
	Monday, 1 July (in person)	Welcome and guided tour to the Faculty of Pharmacy facilities.
	14:00-16:00	Lunch, Ice-breaking
Tuesday, 2 July (in person)	9:00-9:30	Pharmacology. TRP channels in drug discovery Dr. Ester Pagano (Lecturer, Università degli studi di Napoli Federico II) (on-line)
	9:30-10:00	Pharmaceutical Biotechnology. Pharmaceutical Biotechnology. Dr. Monica Baiula, (Lecturer, Università di Bologna)
	10:00-10:30	Pharmaceutical Biotechnology. Medicinal plant and applications Dr. Claudio Ferrante (Lecturer, Università degli Studi Gabriele d'Annunzio)
	10:30-11:00	Break
	11:00-14:00	Laboratory Session. Dr María Dolores Perez Carrión, Dr. Inmaculada Posadas Mayo, Dr. Ivan Bravo Pérez, Dr. Fernando de Andres Segura (Lecturers, University of Castilla-La Mancha)
	18:00-22:00	Social event and dinner. Guided tour to historic Chinchilla village
Wednesday, 3 July (in person)	9:00-12:00	Guided tour to the Regional Botanic Garden.
	12:00-13:30	Encourage the mobility. Fact sheets from partners university U. of Castilla-La Mancha, Comenius U. Bratislava, Medical U. of Sofia, U. degli Studi Gabriele d'Annunzio
Thursday, 4 July (in person)	8:00-10:00	Venue to Heritage City of Cuenca.
	10:00-12:00	Guided tour to the Historic town and main attractions.
	12:00-14:00	Visit to Pharmaceutical Facilities.
	14:00-16:00	Lunch
Friday, 5 July (in person)	16:00-18:00	Return to Albacete
	9:30-10:00	Perspectives. Pharmaceutical Biotechnology Dr. Andrea Bedini (Lecturer, Università di Bologna)
	10:00-10:30	Perspectives Pharmacology. The endocannabinoid system as a target for drug discovery Dr. Barbara Romano (Lecturer, Università degli studi di Napoli Federico II)
	10:30-11:00	Perspectives Pharmacology. Dr. Ivanka Kostadinova (Lecturer, Medical University of Sofia)
	11:00-11:30	Perspectives Molecular Biology of Drugs Dr. Eva Drobna (Lecturer, Comenius University Bratislava)
	11:30-12:30	Break
	12:30-13:00	Perspectives. Medicinal Chemistry Dr Simone Carradori (Lecturer, Università degli Studi Gabriele d'Annunzio),
	13:00-13:30	Concluding remarks.