



## BLENDED INTENSIVE PROGRAMME

### GENERAL INFORMATION

<b>BIP Title</b>	<b>Trends in Biotechnology: Where Biology Meets Technology</b>
<b>BIP Code</b>	
<b>Coordinating Institution - Faculty</b>	University of Agronomic Sciences and Veterinary Medicine of Bucharest (USAMVB) - Faculty of Biotechnology
<b>Dates for physical mobility</b>	July 6-10, 2026
<b>Proposed period for virtual component</b>	July 2-3, 2026 July 17, 2026
<b>Priorities addressed</b>	<input type="checkbox"/> Inclusion and diversity <input type="checkbox"/> Digital transformation <input checked="" type="checkbox"/> Environment and fight against climate change <input type="checkbox"/> Participation in democratic life <input checked="" type="checkbox"/> Others
<b>ECTS</b>	3
<b>Objectives and short description / abstract</b>	The Blended Intensive Program (BIP) entitled „Trends in Biotechnology: Where Biology Meets Technology” offers an interdisciplinary learning experience at the crossroads of biotechnology and the One Health concept. Designed for bachelor and master students, this program blends online learning with a short but intensive in-person component that will be held in the Faculty of Biotechnology – USAMV of Bucharest. Participants will explore how biotechnological innovations can be leveraged to address complex health challenges that span human, animal, and environmental health.
<b>Methods (including final evaluation method) and results / learning outcomes</b>	<b>Final evaluation method:</b> group project <b>Learning outcomes:</b>

	<ol style="list-style-type: none"> <li>1. Development of fundamental competencies in modern biotechnology, through understanding the involved biological, chemical, and technological processes.</li> <li>2. Formation of practical skills necessary for applying biotechnological techniques in the laboratory and in industry.</li> <li>3. Stimulation of critical and analytical thinking, required for research, innovation, and problem-solving in the field.</li> <li>4. Integration of theoretical knowledge with practical experience, through blended learning methods (online courses, laboratory work, applied projects).</li> <li>5. Promotion of professional ethics and safety in biotechnology, with an emphasis on responsibility towards the environment and society.</li> </ol>
<b>Partner institutions</b>	<ol style="list-style-type: none"> <li>1. University Grenoble Alpes</li> <li>2. Agricultural University of Athens</li> <li>3.</li> <li>4.</li> </ol>
<b>Total number of learning hours</b>	75 hours, divided as follows: 35 hours of virtual component 28 hours of physical mobility (minimum 5 days) 12 individual study hours
<b>Scientific coordinator</b>	Lect. dr. Paul-Alexandru POPESCU ( <a href="mailto:paul.popescu@usamv.ro">paul.popescu@usamv.ro</a> )
<b>Administrative coordinator</b>	Lect dr. Mihaela GEICU-CRISTEA ( <a href="mailto:mihaela.geicu@usamv.ro">mihaela.geicu@usamv.ro</a> )
<b>Teaching team</b> (professors from partner universities are welcomed to teach)	<ol style="list-style-type: none"> <li>1. Lect. dr. Popescu Paul-Alexandru</li> <li>2. lect. dr. Geicu-Cristea Mihaela</li> <li>3. Assoc. prof. dr. Boiu-Sicuia Oana-Alina</li> <li>4. Lect. dr. Dinu Laura</li> <li>5. Adrian Dragnea – ELTA90MR</li> <li>6. Prof. dr. Michel Sève – University Grenoble Alpes</li> <li>7. Prof. dr. Walid Rachidi – University Grenoble Alpes</li> </ol>
<b>Number of learners</b>	15-20
<b>Target group / learner profile</b> (study level, specialisation etc)	Bachelor's or Master's degree in Botechnology or a closely related field
<b>Selection criteria</b> (English language level, prerequisites)	English B1/B2 Knowledgeable in basic biotechnology concepts

## TEACHING CONTENT

	Daily program	Content - lectures, workshops, educational trips.
<b>Virtual component</b>	July 2, 2026	<ul style="list-style-type: none"> <li>• Welcome speech, short presentation of the BIP, presentation of the universities/faculties</li> <li>• Presentation of the blended intensive program (BIP)</li> <li>• Teachers' presentation</li> <li>• Students' introductory presentations.</li> </ul>
	July 3, 2026	<ul style="list-style-type: none"> <li>• <i>Lecture - Superfoods: A super impact on health and the environment?</i></li> <li>• <i>Lecture - Romanian Culture and Traditions</i></li> </ul>
	July 17, 2026	<ul style="list-style-type: none"> <li>• Students' final projects presentations;</li> <li>• Final conclusions of the BIP.</li> </ul>
<b>Physical mobility</b>	July 6, 2026	<ul style="list-style-type: none"> <li>• Welcome Meeting</li> <li>• Guided Tour of the Campus</li> <li>• <i>Lecture - Organs and organoids on chip: what else?</i></li> <li>• <i>Workshop - Your Microbiome, your superpower. the youth guide to boost your energy and health</i></li> </ul>
	July 7, 2026	<ul style="list-style-type: none"> <li>• Field trip and study visit to Pietroasa-Istria Research and Development Station for Viticulture</li> <li>• Workshop - Project start</li> <li>• Dinner and accommodation</li> </ul>
	July 8, 2026	<ul style="list-style-type: none"> <li>• <i>Workshop - Trends in food packaging: how changes in expectations, consumption and sustainability are impacting packaging</i></li> <li>• Return to Bucharest</li> </ul>
	July 9, 2026	<ul style="list-style-type: none"> <li>• <i>Workshop - Exposing polytene chromosomes from the salivary gland cells of Diptera larvae</i></li> <li>• <i>Workshop - Advanced optical microscopy techniques used in biology and biotechnology</i></li> </ul>
	May 10, 2026	<ul style="list-style-type: none"> <li>• <i>Lecture - Decoding life in proteins, the new frontiers of proteomics</i></li> <li>• Project work group</li> </ul>

		<ul style="list-style-type: none"><li>• Closing Meeting</li></ul>
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