



FACT SHEET BIP Technology applied to biological systems 2027

Organizing institution	Wrocław University of Science and Technology (Wrocław Tech, Poland)
Partners	• Haute École Louvain en Hainaut (HELHa, Belgium), • University of Antwerp (Antwerp, Belgium), • KU Leuven (KUL, Belgium), • Universidad Politécnica de Cartagena (UPCT, Spain), • Politécnico de Lisboa (ISEL, Portugal), • Hochschule Merseburg – University of Applied Sciences (HS Merseburg, Germany)
Abstract <i>(Brief summary of the activity – what it is about in 3–5 lines)</i>	The International Week Blended Intensive Program (BIP), titled "Technology Applied to Biological Systems," is a recurring, hybrid educational initiative featuring lectures and laboratory workshops led by researchers and academics from the Euclides network. Targeted at biotechnology and related majors, the program fosters collaborative teamwork to enhance students' theoretical understanding and practical methodological skills regarding modern biotechnological applications.
Goal <i>(What is the main objective or purpose?)</i>	The primary objective of the program is to equip students with comprehensive theoretical knowledge and practical competencies in modern molecular biology and biotechnology techniques. Furthermore, it aims to foster international collaboration and develop active problem-solving skills through hands-on laboratory work and the resolution of real-world research problems.
Topics covered <i>(List the key themes or subject areas that will be addressed)</i>	Classes are conducted utilizing active learning methodologies, emphasizing independent student work and the resolution of real-world research problems within the fields of molecular biology and biotechnology. During the laboratory component, students engage in hands-on practical methods, employing techniques such as PCR, electrophoresis, plasmid isolation, bacterial transformation, sequence analysis, and gene expression profiling. These experimental sessions are



	complemented by work with bioinformatics databases and molecular analysis tools, enabling the integration of theoretical knowledge with experimental data analysis.
Expected outcome(s) <i>(What should students gain or achieve by the end?)</i>	Upon completion of the practical exercises, students independently prepare laboratory reports or analyze and interpret their results in accordance with scientific research standards. Ultimately, the program results in the development of core competencies in modern molecular biology techniques utilized in biotechnology and genetic engineering.
Start and end date of the BIP	15-19.03.2027.
Start and end date of the virtual component	25-26.02.2027.
Content of virtual component <i>(Describe any online or hybrid elements – e.g., webinars, online modules, collaborative tools)</i>	The virtual component prepares students for the on-site phase through faculty-led online sessions that standardize foundational knowledge. This theoretical preparation enables designated student groups to present assigned topics to their peers during practical workshops.
Nomination deadline Student's application deadline	30.11.2026. 15.12.2026.
Maximum number of students <i>(Total number of participants allowed)</i>	20
Maximum number per university <i>(Limit per institution, if applicable)</i>	3-4 students
Webpage	the website will be given later
BIP ID <i>(If already available)</i>	2025-1-PL01-KA131-HED-000307202-4