



Capacity Building Activities of the Medical University of Bialystok







Enhancing healthcare education and collaboration through innovative, international projects focused on precision medicine and bridging competency gaps.





Erasmus+ Activities



What?

a network
of academics from
partner institutions,
and SMEs from
Europe



Why?

exchange of expertise and best practices in applied bioinformatics, genetics, and ethics



How?

modular courses and e-learning platform, Teacher's Guides



Who?

healthcare professionals, researchers, students of medicine, law, and business



BECOMING

Hasselt University, University of Pecs, 2018 to 2022.

The project prepares healthcare professionals to meet modern challenges and deliver patient-centered, efficient care.

PRECISEMED

University College Cork, iBioscience Ltd, 2024, lead by UMB.

The project bridges research and practice by equipping future healthcare professionals with the skills needed for personalized medicine, fostering interdisciplinary training, and improving patient outcomes.



Co-funded by the Erasmus+ Programme of the European Union



Precision Medicine & Genomics









We offer hands-on training in advanced genomics, clinical bioinformatics, and the ethical dimensions of precision medicine, designed for both current practitioners and future leaders in healthcare. These initiatives prepare participants to translate genomic insights into real-world clinical applications, improving patient care and fostering international collaboration.

We are at the forefront of precision medicine and genomics, integrating bioinformatics, genomics, and multiomics approaches to deliver personalized treatments. We also emphasize ethical considerations and legal frameworks in genomic research, ensuring responsible innovation

Research & Training Offer

01Precision medicine

The roles of genetics, environment, and lifestyle factors included!

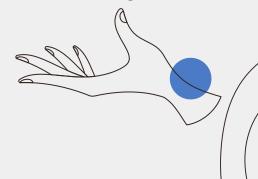
02Applied bioinformatics

Application of NGS in genomics



03
Ethics in genetics

Respecting patient autonomy in decision-making



04

Infrastructure

A sturdy foundation for powerful genomic analysis



05

Data analysis

Essential Techniques for NGS Data Analysis



06 Decoding Cancer Genomics

Tools, Techniques, and Resources for Advanced Research

07

Exploring the Transcriptome

Advanced Tools and Techniques for Unlocking Cancer Research Insights



Applying Machine Learning to Clinical Bioinformatics



Cancer's Genetic Secrets

Oncogenicity in Theory and Practice



80





10

Unlocking Genetic Risks

Integrating Risk Assessment and Counselling in Clinical Practice

11

Making Sense of the Evidence

Mastering Systematic Reviews and Meta-Analysis in Clinical Trials



Ongoing & Future activities





- 22 countries
- COST networking activities
- One Health education

EU4Health

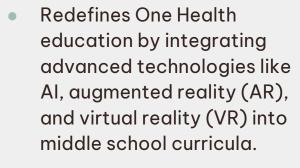
a new opportunity in the EU4Health Calls to explore Al applications in One Health education, building on our BEACON goals

Step by step

01	One health, Literature Review
02	ReEU4H Action Grants 2024 (EU4H-2024-PJ-03-1)
03	EU4H Action Grants 2024 (EU4H-2024-PJ-03-6)
04	EU4H Action Grants 2024 (EU4H-2024-PJ-03-7)

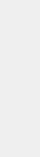


BEACON COST Action



Focused on global health challenges, BEACON equips students with critical skills.

By ensuring inclusivity and bridging the digital divide, this initiative empowers young learners to tackle interconnected health, environmental, and social issues, shaping them into proactive global citizens.





Our team

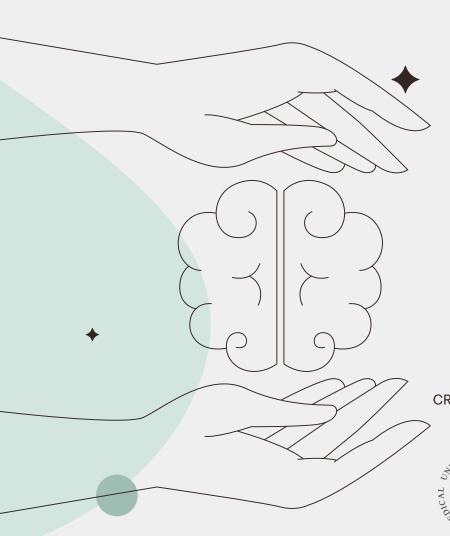




Laboratory of Genomics and Epigenetic Analyses

Clinical Research Centre of MUB





Thanks!

Do you have any questions?

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