



This project is co-financed by the European Union  
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**ORGANIZATION:** Goce Delcev University, Faculty of Medical Sciences, Stip  
NCP Helath, Republic of North Macedonia

**WORKSHOP NAME: Digital and Smart Health**

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## Description of the Organisation



**Goce Delcev University (UGD), Stip, Republic of North Macedonia** established in 2007, has emerged as an institution that provides high-quality higher education with 12 faculties and 3 academies.

## UGD Priorities :

- Student needs
- Innovation
- Digitalization
- Tackling challenges

### UGD Main goals :

- Participation in new EU-wide research and innovation missions
- Maximizing innovation potential as part of EU initiatives
- Promoting openness
- Engaging a new generation of students and young researchers

**NCP Health and Ministry of Education and Science:**

- To initiate greater activity in participation and implementation of all available programs
- To increase awareness
- To encourage the participation of young researchers in the programs available in Horizon Europe
- Webinars – European partnerships
- National Webinars / online sharing information

**Provided solution:**  
Created network for dissemination  
of information/calls.



### Your Teams' Expertise

#### Department of Analytics of Drug and Pharmaceutical Chemistry Faculty of Medical Sciences

4 professors, PhDs, 3 specialists  
2 assistants - specialists

#### Laboratory of Radiopharmacy

Additional external members from  
Faculty of Medical Sciences and  
-current 5 PhD students  
-temporarily 6-10 trainees in  
specialization of pharmaceutical  
technology and analytics of drug

### Design and development of new protein/peptide based radiopharmaceuticals for diagnosis and therapy



- Establishing in house production of PET/therapeutic radiopharmaceuticals including emerging radionuclide
- Insilico modeling for drug development ( protein/peptide based radiopharmaceuticals) - calculation and prediction of the dose from in vitro and animal data to humans
- Comparative oncology – a step forward towards the unique contribution of radiopharmacy/nuclear medicine in One Health approach

### Creating a high-quality e-learning platform and material for individuals seeking to expand their knowledge in the field of pharmacy using information and computer technologies



- Radiopharmacy e-Learning platform (courses) for students in developing countries (IAEA project )
- Established Center for continuing education for good pharmaceutical practices (PRAXIFARM) (EU4Tech PoC WB project "Knowledge transfer - active learning methodologies in good manufacturing practices" -2020/2021)

Previous contribution in VirRAD project (virtual radiopharmacy) - IST programme of the FP5 (2002/2005)

## Your Research Fields

Research and development of novel radiopharmaceuticals for diagnosis and therapy (preclinical investigation, validation of Methods for GMP manufacturing process and Quality control)



In silico modeling and use of digital technology for drug design (peptide/protein based radiopharmaceuticals)



Digital teaching for continuing education for good pharmaceutical practices using sustainable and smart connectivity and knowledge for people and industry (for small, developing and widening countries)





## Your On-going Projects

**Department of Analytics of Drug and Pharmaceutical Chemistry**  
**Faculty of Medical Sciences**  
**Laboratory of Radiopharmacy**

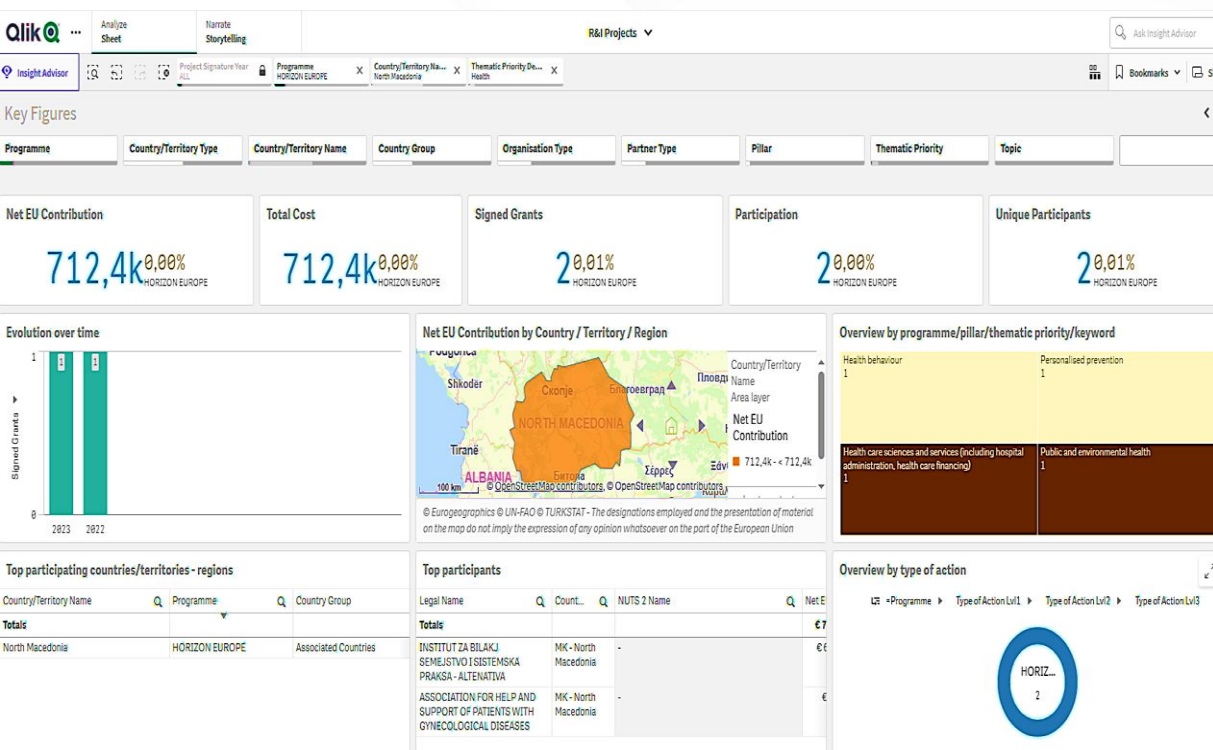
Development of Potential  $^{177}\text{Lu}$  Radiopharmaceuticals: Design, Radiolabelling and Nonclinical Evaluation - CRP F22078 (2023-2028)  
Project of International Atomic Energy Agency (IAEA)  
<https://eprints.ugd.edu.mk/id/eprint/33585>

Develop new Technetium-99m Radiopharmaceuticals for Disease Diagnosis (2024 – 2029)  
Project of International Atomic Energy Agency (IAEA) -  
<https://eprints.ugd.edu.mk/id/eprint/21151>

COST Action CA 19114, Network for Optimized Astatine labelled Radiopharmaceuticals - NOAR (2020 -2024 – ***under extention as NOAR Europe***  
- ACCELERATE.EU (<https://www.ih.europa.eu/projects-results/project-factsheets/accelerateeu>) participation in progress  
<https://astatine-net.eu/>  
<https://www.linkedin.com/in/noar-europe-9aab42257/?originalSubdomain=fr>

## Your On-going Projects

### On going Horizon Europe projects in Health in the Republic of North Macedonia



### On going projects in Goce Delcev University, Stip

PROJECT REFERENCE NO AND TITLE FUNDING PROGRAMME	Period (start and end date)	Role (COO, BEN, AE, OTHER)
Applied, Connected, Entrepreneurial and Engaged – European University Project 101177596 — ACE2EU	01.11.2024 31.10.2028	BEN
Freeze-drying process design for radiopharmaceutical development of peptide-based FAPI and PSMA ready to use kits for labeling with technetium-99m including stability studies on batch formulations - IAEA	21.05.2024- 30.06.2029	BEN
Design and standardization of the technology for the production of ready to use kits for conjugated Antibody daratumumab and protein FAPI-based radiopharmaceuticals, intended for labelling with Lu-177-proof of concept comparative oncology - IAEA	12.09.2023- 01.11.2028	BEN
Champions of Inclusion and Diversity using Meaningful Physical Education in Primary Schools 2023-1-IE01-KA220-SCH-000154934	15.09.2023 14.09.2026	BEN
NewWaves EACEA.B Creativity, Citizens EU values and joint operations	09.03.2023- 08.06.2025	BEN
101087233- CARBONICA	01.01.2023 31.12.2026	BEN
Robotics and Inclusion of Students with Disabilities in Special Education 2023-1-FR01-KA220-SCH-000164957	01.01.2023 31.08.2025	BEN
785-CS” Strengthening quality news and independent journalism in the Western Balkans and Turkey II	01.01.2023- 30.01.2026	BEN
Scaling up actions to tackle air pollution UNDP 00129099	10.02.2023 31.12.2025	COO
Robo Steam – Inclusive Technologies 2022-1-BG01-KA220-VET-000089434	01.10.2022 30.09.2025	BEN
101049997 FIT-BALKANS	01.08.2022 31.07.2025	BEN

**Project Idea – Implementation of Active Learning  
Digital Methodologies in Pharmaceutical Practices  
and Research Communication**

**Call Topic: HORIZON-WIDERA-2025-04-ACCESS-01: Support for R&I policy making in the EU enlargement countries.**

**Deadline Dates: 04 Sep 2025**

- ☐ **Objectives: Development and implementation of digital education in the area of continuing education of pharmacists for the implementation of good pharmaceutical practice with an emphasis on research and innovation and knowledge transfer**
  
- ☐ **Expected Results:**
  - Improved Knowledge and Skills for practical application of good pharmaceutical practices with a focus on digital learning techniques and capacity building in research and pharmaceutical practices
  - Enhanced Communication in research, enabling better collaboration, knowledge sharing, and dissemination of findings.
  - Integration of Digital Tools available on the university
  - Regional collaboration and knowledge exchange within the Western Balkan region and beyond

## **Consortium – required partners**

- **All academic institutions and companies with experience in digital communication technology**
- **All academic institutions and companies with experience in using distance learning for training, continuing education and promotion of lifelong learning**



**Project Idea - Expanding the Western Balkan Region's Role in technology of Radioisotope Production:** Incorporating the Western Balkan region into the map of production capacities for alpha and other emerging radioisotopes for therapy, while enhancing the efficiency of using personalized radionuclide-targeted therapy.

**Call Topic: HORIZON-WIDERA-2025-06-ERA-01: Rolling out the ERA Policy Agenda results**

**Deadline Dates: not announced**

- ☐ **Objectives:** To ensure the country's inclusion through the use of existing diagnostic radionuclide production facilities (PET cyclotron) in the European Radionuclide Therapy Network (introduction of alpha and beta nuclide therapy into clinical practice) through investment in digital manufacturing technology.
- ☐ **Expected Results:**
  - Increased science and innovation capacity of existing infrastructure as a central point and create network in Western Balkan countries for R&D, distribution and education.
  - Increased success for participation in Horizon Europe for the Western Balkan countries due to common interest in improving the healthcare system in the area of Nuclear Medicine - diagnostics and therapy using radioisotopes produced in one place (harmonization of the education system, training, harmonization and use of EU-compliant patient treatment protocols, introduction of telemedicine and a harmonized digital communication system)

**Consortium - profile of known partners (if any)**

**Under discussion – all collaborators in NOAR EUROPE  
The Western Balkans area is of interest due to lack of capacity**

No	Partner Name	Type	Country	Role in the Project
01				
02				
03				
04				
05				

## **Consortium – required partners**

- **All academic institutions and companies involved in production of isotope and radiopharmaceuticals**
- **All academic institutions and companies involved in dosimetry and preclinical investigation**
- **All academic institutions and companies with experience in telemedicine and digital communication technology and data exchange such as images**
- **All academic institutions and companies with experience in using distance learning for training and continuing education**



## PRESENTER CONTACT

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COUNTRY:  
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