



12/2024

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10/2025

Scientific community - workshops



R Course for Non-Programmers Enhances Data Skills

Data Science UL FRI organized a basic R course for non-programmers within the CutCancer project, equipping participants with essential data handling, analysis, and visualization skills.



Flow cytometry course

As part of CutCancer, a Flow Cytometry Course organized by Thermo Fisher Scientific and Omega trained researchers in Attune cytometer use, experiment design, and data analysis.



ENRIO 2025 Congress on Research Integrity Practice

Metka Novak (NIB) attended the ENRIO 2025 Congress on Research Integrity Practice, focusing on promoting transparency, ethics, and good scientific practices in research.



Dynamic42 Academy

Pia Žižek (NIB) attended the Dynamic42 Academy, gaining hands-on experience in organ-on-chip technology, endothelial cell culture, and basic analysis techniques.



Scientific community - hands-on trainings and expert visits



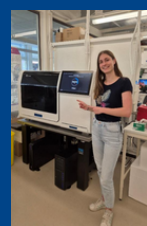
NIB hands-on training at VUmc

PhD student Tina Kolenc Milavec (NIB) spent two months at VUmc Amsterdam in Febe van Maldegem's lab, using Imaging Mass Cytometry (IMC) to study spatial features of glioblastoma and treatment responses.



NIB hands-on training at SU

PhD student Simona Katrin Galun (NIB) visited SU to optimize *in situ* RNA sequencing in glioblastoma assembloids, develop Python-based data analysis skills, and plan collaborative experiments on spatial transcriptomics.



NIB hands-on training at SWAN

PhD student Tim Ravnjak (NIB) visited the In Vitro Toxicology Group at Swansea University for hands-on training in establishing and analysing 3D hepatic co-cultures, advancing research aligned with the EU REACH 3R strategy to develop more human-relevant *in vitro* models.



Expert visit of VUmc to NIB

We were pleased to welcome Febe van Maldegem to NIB, where discussions on IMC experiment progress, protocol optimization, and data interpretation further strengthened our collaboration in spatial tissue analysis.



Expert visit of NIB to Swansea

Bojana Žegura (NIB) visited Swansea University Medical School to discuss ongoing genotoxicity and inflammation studies, 3D liver co-cultures, future collaboration, and planning for the CutCancer Final Conference.



Expert visit of NIB to SU

Metka Novak and Bernarda Majc (NIB) visited SciLife lab for a research exchange, strengthening collaboration and sharing expertise between the two institutions.



Conferences

NIB

Invited oral presentation at Targeted Response WEBINAR, **Belgrade, Serbia**

VUmc

Presentation at CIMT Cancer Immunotherapy conference, **Mainz, Germany**

NIB

Presentation at EORTC Pathobiology spring meeting, **virtual event**

Swan

Presentation at UKEMS Annual Meeting Programme, **University of York, UK**

NIB

EUROTOX congress 2025, **Athens, Greece**

NIB

EEMGS congress 2025, **Bratislava, Slovakia**

NIB

Invited oral presentation at GENUBIH congress (4th Congress of Geneticists in Bosnia and Hercegovina with International Participation), **Banja Luka, BiH**

NIB

CROTOX congress 2025, **Rab, Croatia**

Twinning for excellence to strategically advance research in carcinogenesis and cancer.

Industry



Invited lecture at Genomika conference

At the Genomika 2025 seminar, organized by OMEGA and Thermo Fisher Scientific, Bernarda Majc (NIB) presented translational cancer research demonstrating how advanced imaging technologies reveal tumor complexity and therapy resistance.



The Visit of SME Biolinker CEO Mona Oliveira at NIB

We were delighted to welcome Mona Oliveira, Founder and CEO of BioLinker to NIB for inspiring discussions within the CutCancer Project on bridging basic research with biotech innovation.



Decision makers, policy makers



President of Portugal Visits NIB: Strengthening Ties in Science and Innovation

On 18 March 2025, NIB welcomed the Presidents of Slovenia and Portugal and presented its cutting-edge research in cancer biology and the CutCancer project, along with recent advances in biotechnology, marine biology, resilient crops in the new Biotechnological Hub.



CutCancer Final Conference 2025
22-23 October 2025 (NIB)

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Publications

VUmc

Spatial multiplex analysis of lung cancer reveals that regulatory T cells attenuate KRAS-G12C inhibitor-induced immune responses, **Science Advances**

NIB

The Slovenian translational platform GlioBank for brain tumor research: Identification of molecular signatures of glioblastoma progression, **Neuro-Oncology Advances**

NIB

Gut Microbiome in Cancer: the Next big Opportunity for Better Patient Outcomes?, **Slovenian Veterinary Research**

Swansea

Harnessing the power of an advanced in vitro 3D liver model and error-corrected duplex sequencing for the detection of mutational signatures, **Mutagenesis**

NIB

Melanoma antigens in pediatric medulloblastoma contribute to tumor heterogeneity and species-specificity of group 3 tumors, **Acta Neuropathologica Communications**

NIB

Exploring the genotoxic potential of Bisphenol A and its emerging alternatives in an advanced in vitro 3D zebrafish hepatic cell model, **Science of The Total Environment**

Students



NIB Info Day for Master Students of Faculty of Pharmacy

The Department of Genetic Toxicology and Cancer Biology at NIB hosted a CutCancer info day for Pharmacy Master's students, featuring project presentations, a lab tour, and a poster session led by PhD students.

Cutting Edge 2025

Iza Rozman (NIB) presented her research at the Cutting Edge Conference in Ljubljana, contributing to its goal of connecting academia, industry, and public institutions while promoting young scientific talent.

17th Jožef Stefan International Postgraduate School Students' Conference

Anamarija Habič (NIB) presented her work "Natural killer cells against glioblastoma: inspecting the battle in a 3D model of glioblastoma" at the 17th Jožef Stefan International Postgraduate School Students' Conference, highlighting innovative approaches in tumor immunology research.

Public at large and citizens



Public interviews for magazine DELO



Ena sama terapija ne bo odpravila raka

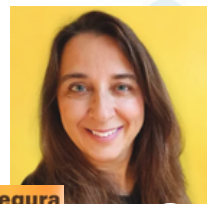
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Kako onesnažila in nečistoče v hrani in zdravih vplivajo na naše zdravje?

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Public interview for the Municipal Gazette Rešeto



Dr. Bojana Žegura

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Project deliverables



- A protocol for application of IMC on tumor organoids
- A protocol for the assessment of genomic instability in hepatic and lung 3D cell models