

**Partner Search Form
Horizon Europe
Health**

Date

Deadline

CONTACT

Organisation	Comenius University in Bratislava (CU)	Department	the Jessenius Faculty of Medicine in Martin (JFMED CU)
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Country	Slovak Republic		

Organisation type

Research organisation type	<input type="checkbox"/> Research Organisation	Is your company a Small and Medium Sized Enterprise (SME*)?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	<input checked="" type="checkbox"/> University		Number of employees: 4,500	
	<input type="checkbox"/> Company			
	<input type="checkbox"/> Other			

Your enterprise is an SME if:

- it is engaged in **economic activity**
- it has **less than 250 employees**
- it has either an **annual turnover not exceeding €50M**, or an **balance sheet total not exceeding €43M**
- it is **autonomous**

For the definition of SMEs, look at: http://ec.europa.eu/growth/smes/business-friendly-environment/sme-definition_en

Short introduction of key areas of institute's research:

Comenius University in Bratislava (CU) is the oldest and largest university in the Slovak Republic. Medical research of CU is carried out at the **Faculty of Medicine in Bratislava** and the **Jessenius Faculty of Medicine in Martin (JFMED CU)**. The **research centres of JFMED CU**, namely *Martin Centre for Biomedicine*, *Biobank for Cancer and Rare Diseases*, and *Competence Centre for Research and Development in the Field of Diagnostics and Therapy of Oncological Diseases* focus their research mainly on **molecular medicine**, **oncology**, **respirology**, and **neuroscience**. The high level of research and international bilateral and multilateral cooperation is represented by the **Centres of Excellence of CU**: *Centre of Excellence for Research in Personalized Therapy*, *Centre of Excellence for Perinatology Research*, and *the Centre of Excellence for Perinatology Research*. Recently, the researchers of JFMED CU have been participating in **several important projects**, such as CovLab, LISPER, CovClin, BIOFORD. JFMED CU is an active member of the international project consortium within the Digital Europe program - TEF-health: Testing and Experimentation Facility for Health, focused on the implementation of robotics and artificial intelligence into the Slovak healthcare system.

Among other unique **results of JFMED CU** we present:

- determination of the biological characteristics and aggressiveness of metastatic spread and formation of distant metastases with the risk of relapse of mesenchymal tumors;
- setting for individual treatment based on biological activity, gene expressions, functional protein interactions in tumor tissue and in the host environment, i.e. the patient's immunological and defence system and prediction of lesion or carcinoma progression;
- unique findings of biological expression of various phenotypic and molecular subtypes of breast cancer and newly diagnosed changes in breast tissue, which, although not yet showing morphological signs of malignancy, already has encoded and activated carcinogenesis;

**Partner Search Form
Horizon Europe
Health**

- introduction of a unique method for detecting sentinel lymph nodes in breast Ca and Cervical Ca;
- introduction of fine-needle aspiration (FNAC) and core-needle biopsy methods for breast tumors,
- introduction of laser surgery for premalignant lesions of the intestinal Ca;
- use of radiofrequency ablation and the Faxitron BioVision system for intraoperative X-ray examination of tumors and calcifications;
- unique results in monitoring genetic abnormalities, microRNA, genetic polymorphisms of lung Ca;
- introduction of in situ hybridization technologies for the diagnosis and determination of prognostic and predictive factors of selected tumor diseases (CISH and FISH on tissue sections);
- introduction of methods for molecular-biological analyses of certain genetic changes in selected tumor diseases (malignant lymphomas, leukemias, gastrointestinal stromal tumors, mastocytosis, myeloproliferative diseases, etc.), including mutational analyses;
- introduction of a procedure for complex analysis of morphological, phenotypic and genotypic parameters in the prediction of HER2 status in invasive breast cancer and complex analysis of parameters of other selected groups of cancer diseases (NET, GIST, etc.) as part of determining predictive parameters of the disease
- establishment of a unique "iLab" for massive testing for the presence of pathogens by DNA sequencing and others.

Former participation in an FP European project?

YES NO

Project title / Acronym:

Co-creation and implementation of an intervention to improve the understanding of TesticulaR cANcer late effects and unmet Supportive CarE NeedS of AYA survivors using eXtended - **Project TRANSCEND-XR**

Biomarkers established to stratify sepsis long-term adverse effects to improve patients' health and quality of life - **Project BEATsep**

Large-scale Interdisciplinary Alliance on Nature-based SoLutions and Health: Indicators, InequalitY and Innovation - **Project LILY**

Maternal Perinatal Stress and Adverse Outcomes in the Offspring: Maximising infants' development - **Project TREASURE**

Generation of Human Induced Pluripotent Stem Cells From Haplo-Selected Cord Blood Samples - **Project HAPLO-iPS**

Testing and Experimentation Facility for Health - **Project TEF-Health**

Efficacy and safety of thrombectomy in stroke with extended lesion and extended time window: a randomized, controlled trial - **Project TENSION**

Epidemic intelligence to minimize 2019-nCoV's public health, economic and social impact in Europe - **Project EpiPose**

Expertise / Commitment offered

Description of your expertise:

Obstetrics and Gynaecology specialist with research expertise in HPV-related cervical disease, molecular diagnostics, and cervical cancer screening. Research includes genomic and epigenetic biomarkers, HPV biology, and translational approaches integrating clinical and laboratory data to improve risk stratification and patient management.

**Partner Search Form
Horizon Europe
Health**

Keywords specifying your expertise:

Human papillomavirus, genetics, microbiome, cervical dysplasia, cervical cancer, breast cancer.

Commitment offered:

Research Demonstration Training
 Technology Dissemination Other:

Interested in participation in project types:

Research & Innovation Action Innovation Action EIC Pathfinder

Work Programme research areas: indicate your interest

- **Cancer prevention and early detection**, with a focus on HPV-associated malignancies and optimization of cervical cancer screening strategies
- **Translational medicine**, integrating molecular diagnostics (genomic and epigenetic biomarkers) into clinical practice
- **Personalized and precision medicine**, especially in risk stratification and individualized management of precancerous and malignant conditions
- **Women’s health and reproductive medicine**, including cervical pathology and high-risk pregnancy
- **Infectious disease and cancer interaction**, particularly the role of HPV and the vaginal microbiome in carcinogenesis
- **Digital health and innovative screening approaches**, including the potential application of AI in diagnostics and population-based screening programs

Call topic(s):

HORIZON-MISS-2026-02-CANCER-02

Do you have other partners for this topic (which partners/country)?

Not yet

Profile of partner sought

Role

<input checked="" type="checkbox"/> technology development	<input checked="" type="checkbox"/> research	<input type="checkbox"/> training
<input type="checkbox"/> dissemination	<input type="checkbox"/> demonstration	<input type="checkbox"/> other

Country /region

Europe

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Expertise required

We are seeking collaboration with partners possessing strong expertise in the following areas:

- **Molecular biology and translational research**, particularly in HPV-related carcinogenesis, including genomic and epigenetic biomarkers
- **Clinical research in gynaecology and oncology**, with experience in cervical pathology, screening programs, and management of precancerous lesions
- **Epidemiology and population-based screening**, including implementation and evaluation of cervical cancer prevention strategies
- **Microbiome research**, especially the role of the vaginal microbiome in disease progression and host–pathogen interactions
- **Digital health and artificial intelligence**, focusing on diagnostic support systems, image analysis, and screening optimization
- **Biostatistics and data science**, including analysis of clinical and molecular datasets
- **Innovation and clinical translation**, with the ability to transfer research findings into clinical practice and healthcare systems

I agree with the publication of my contact data:

YES

NO