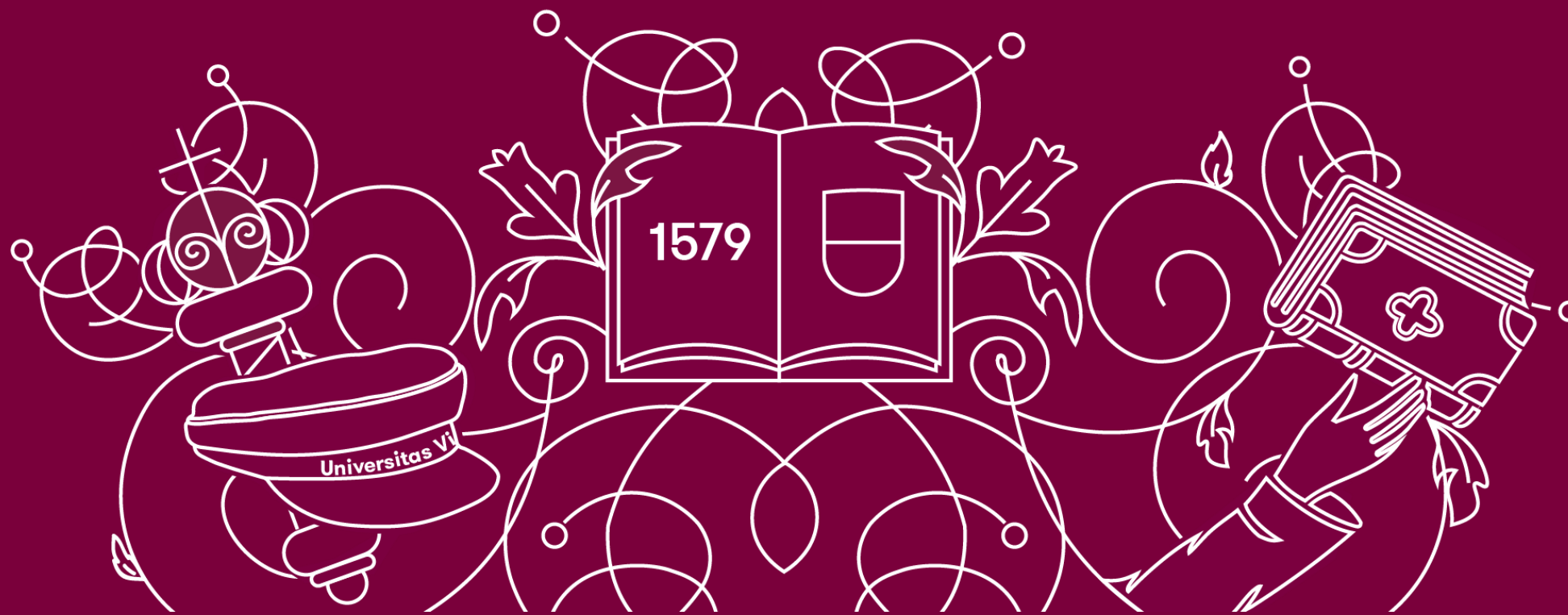


**„Lithuanian-French scientific  
cooperation in Horizon Europe:  
results and perspectives“  
2021.10.20**



**Vilnius  
University**

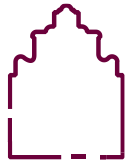


# About

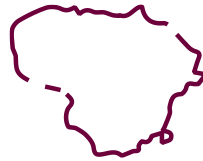
**Vilnius University** – the first and largest university in Lithuania, one of the oldest and most prominent higher education institutions in Central and Eastern Europe, established in 1579 in Lithuania's capital city Vilnius, with a faculty in the second largest city, Kaunas and the Academy in Šiauliai, fourth largest city.



# Facts and Figures



Founded in **1579** m.



**#1** in Lithuania



**400** in the world\*



**246** study  
programmes offered



**~1 500**  
scientific publications annually



**22 747** students

\*QS World University Rankings

# Research

- Humanities
- Lithuanian Studies
- Structure and Development of Society
- Biological and Sociopsychological Cognition and Evolution of Man
- Healthy Man, Prevention, Diagnostics and Treatment of Diseases
- Genomics, Biomolecules and Biotechnologies
- New Functional Materials and Derivatives
- Theoretical and Condensed Matter Physics
- Laser Physics and Light Technologies
- Fundamental and Applied Mathematics
- Informatics and Information Technologies

# High-tech achievements

- Prof. Virginijus Šikšnys: Warren Alpert prize winner, Novozymes Prize, Kavli Prize winner, pioneer in CRISPR/Cas9 technology
- The development of Lithuanian space programme: 2 Lithuanian satellites „LituanicaSAT-1“ and „LituanicaSAT-2“ successfully launched in collaboration with High Tech Vilnius University spin-off “NanoAvionics”
- Prof. Dr. Linas Mažutis: leading scientist in microfluidics technology application for cancer diagnostics
- „Vilnius-Lithuania iGEM“: award-winning synthetic biology technology development team
- Prof. Saulius Klimašauskas and Biological DNA Modification team: 14 patents in epigenome studies



# Membership in international networks:

- ERASMUS
- NORDPLUS
- UTRECHT, MAUI, AEN
- BSRUN
- CREPUQ
- UNICA
- ISEP
- Scholars at Risk/New York University
- EUA
- IAU
- EAIE
- ALTE
- BUP
- Magna Charta Observatory
- COIMBRA Group

# International projects

## Educational Erasmus projects:

- Knowledge alliances
- Capacity building
- Strategic partnerships

## Research projects:

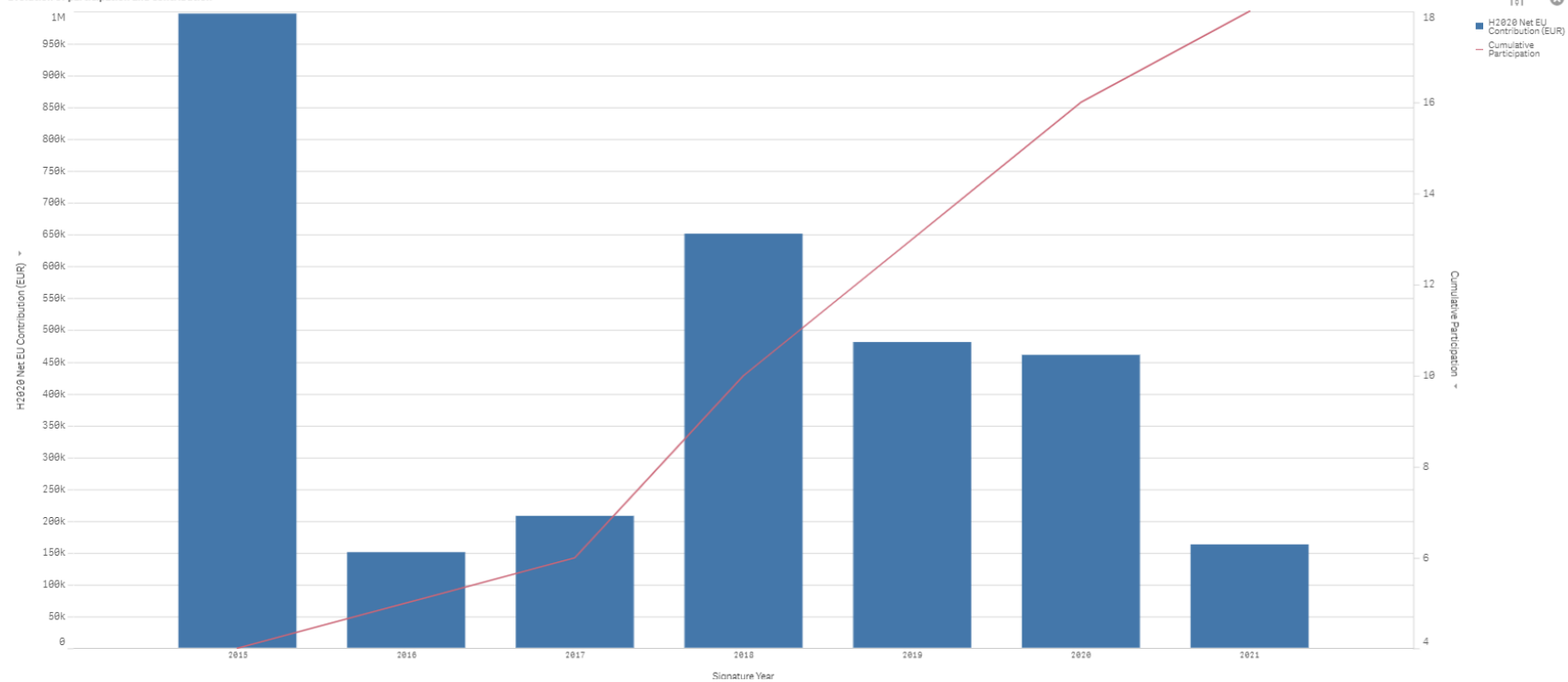
- Horizon Europe, Horizon 2020
- Justice programme
- NATO Research programmes
- The National Institutes of Health (NIH)
- Others (CERN, EUROSTAT, etc.)

# VU scientific cooperation in H2020 with France

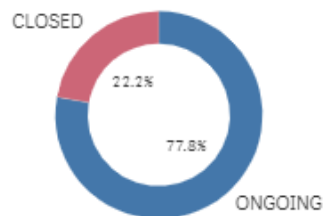


## VILNIAUS UNIVERSITETAS (999893170) participation in H2020 - DETAILS

Evolution of participation and contribution



### Project Status







# Good practice example in cooperation: HEALTH

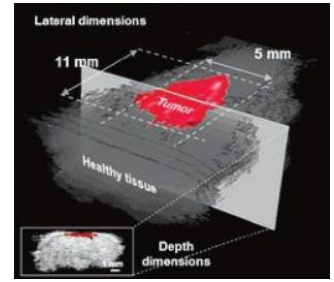


## H2020 Project: LASERLAB-EUROPE: Promoting laser-based technology research and innovation in Europe

- Programme: [H2020-EU.1.4. - EXCELLENT SCIENCE - Research Infrastructures](#)
- Funding scheme: [RIA - Research and Innovation action](#)
- Coordinator: **CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS**
- FR participants: **COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES**
- **LT partner: VU (Prof. A.Matijošius)**
- European consortium of major national laser research infrastructures, covering advanced laser science and applications in most domains of research and technology, with particular emphasis on areas with high industrial and social impact, such as bio- and nanophotonics, material analyses, biology and medicine.

Recently the field of advanced lasers has experienced remarkable advances and breakthroughs in laser technologies and novel applications. Laser technology is a key innovation driver for highly varied applications and products in many areas of modern society, thereby substantially contributing to economic growth.

- The topics of the joint research activities are selected in order to facilitate major improvements, beyond the present state-of-the-art, of the participating RIs and their services, in particular their abilities to enable novel applications with high industrial and social impact. They help preparing the Consortium and its Users for the future, in synergies with ESFRI infrastructures such as [European XFEL](#), [EUROFEL](#) and [ELI](#).
- [Lasers and cancer](#)



|                   |                  |
|-------------------|------------------|
| <b>Start date</b> | <b>End date</b>  |
| 1 December 2019   | 30 November 2023 |

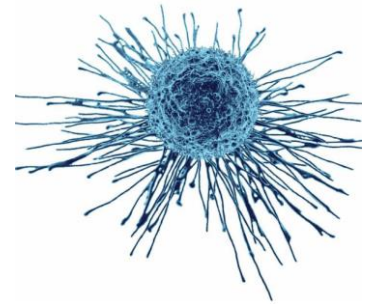


# Good practice example in cooperation: HEALTH



## H2020 Project: CanBioSe: Novel 1D photonic metal oxide nanostructures for early stage cancer detection

- Programme: [H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions](#)
- Funding scheme: [MSCA-RISE - Marie Skłodowska-Curie Research and Innovation Staff Exchange \(RISE\)](#)
- Coordinator: **LATVIJAS UNIVERSITATE**
- FR participants: **ECOLE NATIONALE SUPERIEURE DE CHIMIE DE MONTPELLIER**
- LT partners: **VU ([prof. \(HP\) dr. Almira Ramanavičienė](#))**
- Project partners provide research and training activities in the fields of nanotechnology, surface functionalization, bioengineering, microfluidics and biosensor testing, market analysis and commercialization. Provided research and management training to experienced researchers and early stage researchers strengthen their personal skills and CVs via new scientific papers and conference theses and strengthen a development of EU research human resources.
- **Goal: to develop a new portable tool for early stage cancer detection which can solve one of the important health challenges in EU society. The CanBioSe project is targeted to strengthen international and intersectoral collaboration, sharing new ideas, knowledge transfer from research to market, and vice versa in the field of nanostructured metal oxide optical biosensors for cancer cell detection.**



| Start date     | End date         |
|----------------|------------------|
| 1 January 2018 | 31 December 2021 |



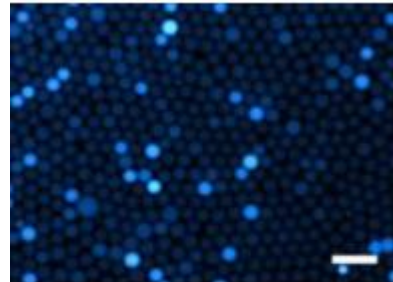
[@Canbiose](#)  
Website: [www.canbiose.lu.lv](http://www.canbiose.lu.lv)

# Good practice example in cooperation: HEALTH

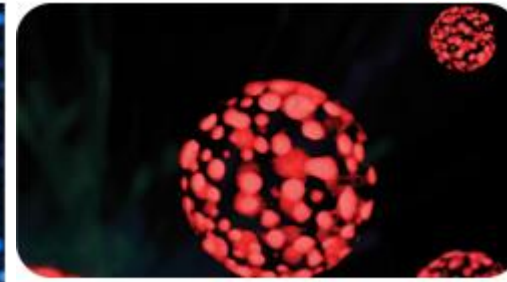


## H2020 Project: EVOdrops: directed EVOLution in DROPS

- Programme: [H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions](#)
- Funding scheme: [MSCA-ITN-ETN - European Training Networks](#)
- Coordinator: **UNIVERSITY OF GLASGOW**
- FR participants and partners: **CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS; UNIVERSITE DE PARIS BIOMILLENNIA; ECOLE SUPERIEURE DE PHYSIQUE ET DECHIMIE INDUSTRIELLES DE LA VILLE DEPARIS**
- LT partners: VU ([Prof. dr. Linas Mazutis](#)), UAB THERMO FISHER SCIENTIFIC BALTICS
- EVOdrops ITN trains a new generation of Phd students in a multidisciplinary network of researchers from different communities – biology, biotechnology, microfluidics and microtechnology engineering – to explore directed evolution processes for protein engineering in an integrative way that transcends the training provided in one single team or even institution. The students are trained to develop and apply a global and multi-disciplinary approach based on key enabling technologies for high-throughput analysis in biological fields.
- **Goal: to optimize processes at all levels of the chain of operation to reach ultra-high throughput, improved sensitivity and reliability of systems for the selection of variants of fundamental, medicinal, practical and industrial interest.**



High-throughput evolution  
in picodrops



New double emulsions reactors

Start date  
1 October 2018

End date  
30 September 2022



[@EVOdrops\\_ITN](#)  
Website: [www.evodrops.eu](http://www.evodrops.eu)

# Good practice example in cooperation: HEALTH

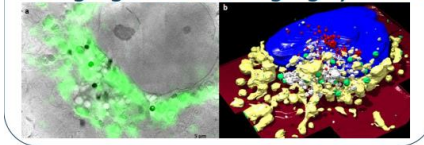


## H2020 Project: iNEXT-Discovery: Infrastructure for transnational access and discovery in structural biology

- Programme: [H2020-EU.1.4. - EXCELLENT SCIENCE - Research Infrastructures](#)
  - Funding scheme: [RIA - Research and Innovation action](#)
  - Coordinator: **STICHTING HET NEDERLANDS KANKER INSTITUUT-ANTONI VAN LEEUWENHOEK ZIEKENHUIS**
  - FR participants: **SYNCHROTRON SOLEIL SOCIETE CIVILE, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS, CENTRE EUROPEEN DE RECHERCHE EN BIOLOGIE ET MEDECINE**
  - LT partners: **VU ([dr S.Grazulis](#))**
- iNEXT-Discovery aims to enable access to structural biology research infrastructures for all European researchers, and especially also for non-experts in structural biology. For that reason it brings together a diversity of large research facilities and other groups in a single consortium.
- **If you are a cell biologist, a biochemist, a medicinal chemist, working with biomaterials or biotechnology, or work in the food sector, and you have a research question that involves knowledge of the structures of biomolecules and their interactions you can apply for access with iNEXT-Discovery.**



*Structural Biology for cellular imaging and challenging systems*



*Time scales - states - dynamics*



### HTP cryo-EM & serial MX

### Fragment Screening

**Start date**  
1 February 2020

**End date**  
31 January 2024



**Vilnius  
University**

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[anzelma.useliene@cr.vu.lt](mailto:anzelma.useliene@cr.vu.lt)

Department for Research and Innovation

Research Projects Office