

## Science with and for Society – Project Partner Search Form

### CALL: Science with and for Society 2018

- I offer my expertise to participate as a Partner in a Project
- I am planning to coordinate a project and I am looking for Project Partners

#### Topics

##### Strategic orientation 1. Accelerating and catalysing processes of institutional change

- SwafS-01-2018-2019: Open schooling and collaboration on science education
- SwafS-02-2018: Innovative methods for teaching ethics and research integrity
- SwafS-03-2018: Developing research integrity standard operating procedures
- SwafS-04-2018: Encouraging the re-use of research data generated by publically funded research projects
- SwafS-05-2018-2019: Grounding RRI practices in research and innovation funding and performing organisations

##### Strategic orientation 2. Stepping up support to Gender Equality in Research & Innovation policy

- SwafS-09-2018-2019: Supporting research organisations to implement gender equality plans
- SwafS-10-2018: Analysing gender gaps and biases in the allocation of grants
- SwafS-13-2018: Gender Equality Academy and dissemination of gender knowledge across Europe

##### Strategic orientation 3. Building the territorial dimension of SwafS partnerships

- SwafS-14-2018-2019: Supporting the development of territorial Responsible Research and Innovation
- SwafS-22-2018: Mobilising Research Excellence in EU Outermost Regions

##### Strategic orientation 4. Exploring and supporting citizen science

- SwafS-15-2018-2019: Exploring and supporting citizen science

##### Strategic orientation 5. Building the knowledge base for SwafS

- SwafS-18-2018: Taking stock of the application of the precautionary principle in R&I
- SwafS-19-2018-2019: Taking stock and re-examining the role of science communication
- SwafS-20-2018-2019: Building the SwafS knowledge base
- SwafS-21-2018: Advancing the Monitoring of the Evolution and Benefits of Responsible Research and Innovation

#### 1) PROJECT INFORMATION

**Field of expertise related to the topic:** in vivo studies on lung cancer and breast cancer development

**Potential contribution to the project:** completing the whole process of Drug Discovery and option



to use the science communication in Drug Discovery

**Role in the project:**

Research                       Dissemination                       Other  
 Training                               Technology Development

Project idea: novel concept-treatment of the most common cancers-lung cancer and breast cancer with Abl-Tyrosine kinase inhibitors  
 novel approach-inhibition of the enzyme Abl-TK by blocking an intramolecular salt bridge formation discovered in 2009 by molecular dynamics simulations.

Project description: Drug discovery and development is a complex and long term process which requires collaboration between researchers from different fields: Synthetic Organic Chemistry, Molecular and Cellular Biology, Biochemistry, Pharmacology, Medicine, Drug Technology. The project is focused on interplay between science and society at national and EU level in the field of cancer research. The discovery of new drug candidates will be realized by the collaboration between non-scientists from civil society foundations, industry and Bulgarian Ministry of Education and Science, and researchers from academia. In the University of Chemical Technology and Metallurgy a cancer research unit will be created combining researchers from Departments Organic Chemistry, Organic Synthesis and Biotechnology. Civil society foundations (NGO) will organize workshops and seminars after each WP thus engaging scientists and non-scientists in the cancer research. The Bulgarian Ministry of Education and Science will promote the project's results to other research organization in Bulgaria proposing also institutional changes as those in the University of Chemical Technology and Metallurgy(UCTM). Industrial schemes for synthesis of the designed structures will be developed by interested industrial partners. The project follows the procedure of Drug discovery:

1. Target selection.
2. Design and synthesis of new molecules.
3. In vitro studies.
4. In vivo studies.

A special website will be created and maintained where the research data from the project will be published. In this way the project will seek for an interested pharmaceutical company to perform preclinical and clinical development. The team from UCTM based on its previous experience in synthetic chemistry and using GOLD software has invented innovative design of potential Abl-TK inhibitors. Based on the Science Communication with specialists from Italian National Research Council and other institutions, our team has discovered how to build structures with good cell penetration and high metabolic stability. Our partners from Institute of Virology of Bucharest will perform in vitro studies: Soft agar colony growth assays and proliferation assays of MDA-MB231, MDA-MB468, H1299 and H69 cell lines. To complete the whole process of Drug Discovery we need an institution with expertise in in vivo studies and also NGO for communication and dissemination of the results.

The project will engage citizens (non-scientists), stakeholders (academia and industry) and end-users (medical doctors and pharmacists).

Already experience as a Coordinator:  yes  no

As a Partner:  yes  no

If "yes", which project:

Other partners in consortium already identified (with countries): Institute of Virology, Romania

## 2) TARGET COORDINATOR / PARTNER SOUGHT

**Organisation details:**

Higher education / university                       Industry / SME





<input type="checkbox"/> Research institution	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> NGO	Please specify:
<input type="checkbox"/> Education	

**We are looking for following Expertise / Competencies:** Expertise in in vivo studies on lung cancer and breast cancer development.

### 3) CONTACT DETAILS

Contact Person: Name: Ivan Ivanov <input type="checkbox"/> Ms <input checked="" type="checkbox"/> Mr
Organisation: University of Chemical Technology and Metallurgy
Address: 8 Kliment Ohridski Blvd
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City: Sofia
Country: Bulgaria
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Organisation web address: www.uctm.edu
Short profile of the Organisation: University of Chemical Technology and Metallurgy is founded in 1953. It has approximately 4 000 students annually-bachelors, masters and PhD. It is a state university with one of the highest scores in Bulgaria-9.1 from maximum 10.0. It has accreditation from the European Federation of National Associations of Engineers-FEANI. According to the national rating study of the Ministry of Education of Bulgaria it is among top 5 university and number 1 in the field of Chemical technology. It has successfully completed 5 operational programmes in recent years.

**Date:**

**The offer is valid until:** 02.02.2018.

I agree with publication of my contact data on "Science with and for Society" network website

YES  NO

**PLEASE FILL THE FORM AND RETURN IT TO YOUR HORIZON 2020 NATIONAL CONTACT POINT FOR SCIENCE WITH AND FOR SOCIETY.**