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# Short overview of Open Biotechnology Calls

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NCP “Food security, sustainable agriculture,  
marine and maritime research and the bio-economy”

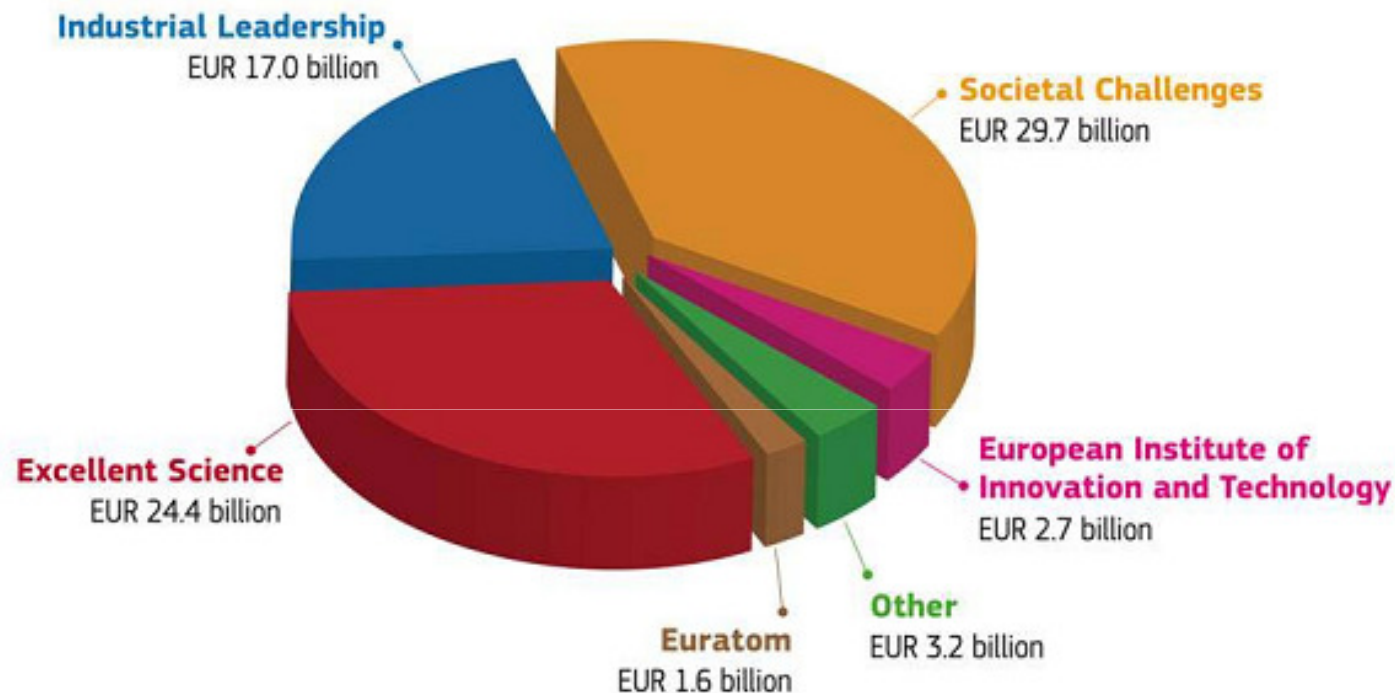
<http://ifbg.org.ua/uk/horizon-2020-0>

## Structure of the report

- 1) Industrial Leadership as one of the HORIZON 2020 pillars
- 2) Biotechnology areas covered by the HORIZON 2020
- 3) Closed biotechnology calls: Industrial Leadership
- 4) Open biotechnology calls: Industrial Leadership
- 5) Open calls from the related fields and Societal Challenges/Excellent Science pillars
- 6) Useful tips and instructions: How to find an open biotech call?

## Industrial Leadership – HORISON 2020 pillar of Priority II

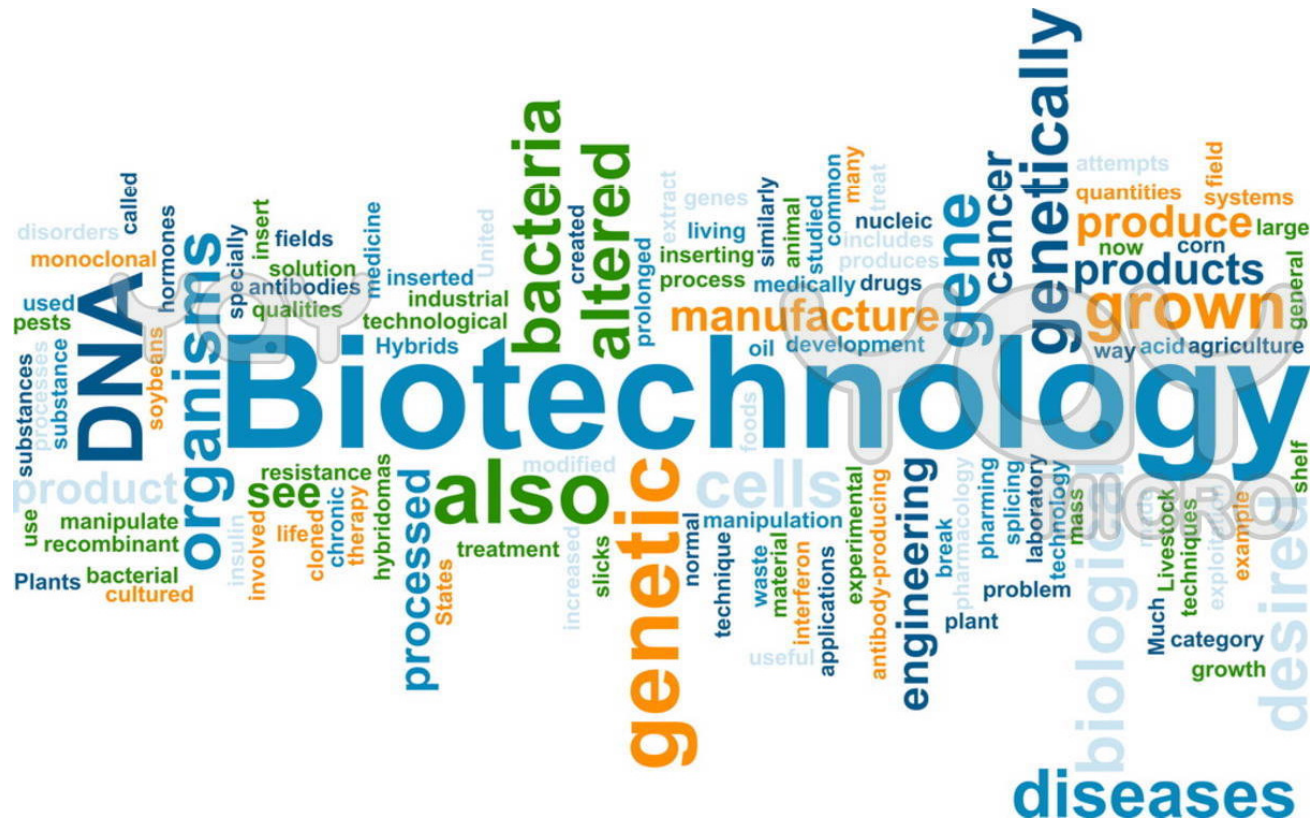
### HORIZON 2020 BUDGET (EUR 78.6 billion, current prices)



**IL** - the combination of innovation activities with R&D aimed to enhance product competitiveness, underpin tomorrow's businesses and help innovative European small enterprises to grow into world-leading companies. It covers approx. 18 Bill Euro from almost 80 Bill Euro proposed by European Commission for HORIZON 2020 in general.

# Industrial Leadership priority Key Enabling Technologies

- 1) Information and Communication Technologies;
- 2) Nanotechnologies;
- 3) Advanced materials;
- 4) **Biotechnology;**
- 5) Advanced Manufacturing and Processing.



# Biotechnological fields supported by HORISON 2020

**Green biotechnology**

**Red biotechnology**

**Blue biotechnology**

**White biotechnology**

**Bioinformatics (computational biology)**

**Bioeconomy**

**Biotechnology** (non-medical), bioreactors, applied

**Biotechnology**

**Biotechnology** sector

Microbial **biotechnology**

Downstream applications of marine **biotechnology**

Plant **biotechnology**

Environmental **biotechnology**

Green **biotechnology**

White **biotechnology**

Health-related **biotechnology**

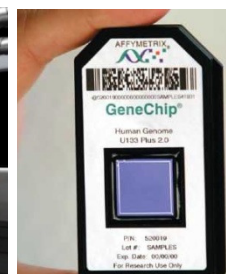
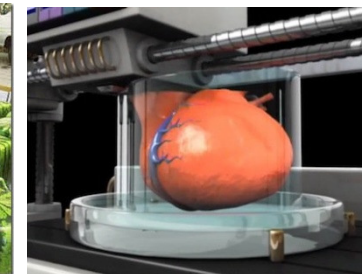
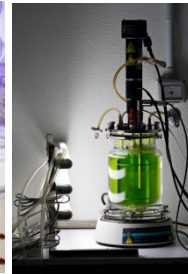
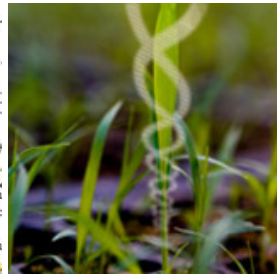
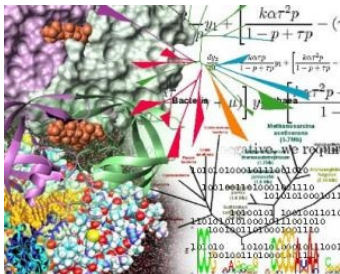
Industrial **biotechnology**

Agriculture **biotechnology**

Medical **biotechnology**

Applied **biotechnology** (non-medical), bioreactors,

Food **biotechnology**





## Biotechnological projects supported by EU research programs

**Green biotechnology** - biotechnology applied to agricultural processes (micropropagation, transgenic plants, bioremediation, industrial waste recycling, closed ecological systems, Biosphere 2, Greenhouse, Eden Project, Bioshelter, seawater greenhouse, perpetual harvest greenhouse system, vertical farming, biological weapons, etc.).

**Red biotechnology** is applied to medical processes (artificial uterus, *in vivo* pregnancy, body implants, prosthesis, (e.g. pacemakers, joint replacement), cryonics and cryonics animation, nanomedicines, nanosensors, oncolytic viruses, robotic surgery, stem cell treatments, tissue engineering, organ printing and transplantation, as pharmaceutical drug discovery and production, pharmacogenomics, DNA microarray chips, etc.).

**Blue biotechnology** - the marine and aquatic applications of biotechnology (carbon dioxide fixation, ma(i)croalgae biofuel, sponges, mussels, cyanobacteria as a producers of raw materials, valuable ingredients such as bioactive compounds, pigments fatty acids, antioxidants, etc.).

**White biotechnology** is applied to industrial processes (enzymes as industrial catalysts to either produce valuable chemicals, biodegradable plastics, food and feed, detergents, paper and pulp, textiles and biofuels or destroy hazardous/polluting chemicals). Aimed to consume less in resources than traditional processes used to produce industrial goods.

**Bioinformatics (computational biology)** is an interdisciplinary field which addresses biological problems using computational techniques .

**Bioeconomy** - the investment and economic output of all of these types of applied biotechnologies.

# Biotechnology research and innovation objectives: Industrial Leadership

- to develop competitive, sustainable, safe and innovative industrial products and processes;
- to contribute as an innovation driver in a number of European sectors like agriculture, forestry, food, energy, chemical and health as well as bioeconomy.

<http://ec.europa.eu/programmes/horizon2020/en/area/biotechnology>



The screenshot shows the Horizon 2020 website page for Biotechnology. The page features the European Commission logo and the text "HORIZON 2020 The EU Framework Programme for Research and Innovation". A navigation menu includes links for Home, What is Horizon 2020?, Find Your area, How to Get funding?, News, Events, Multimedia, Publications, and Project Stories. The main content area is titled "Biotechnology" and includes a section on Key Enabling Technologies (KETs) and a list of specific objectives under "Industrial Leadership".


**Horizon 2020 Programme**

**Related Horizon 2020 sections**

- ▶ Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy
- ▶ Information and Communication Technologies
- ▶ Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology

## Biotechnology

Key Enabling Technologies (KETs) are multi-disciplinary, knowledge and capital-intensive technologies. They cut across many diverse sectors providing the basis for significant competitive advantage for the European industry, and stimulate growth and the creation of new jobs.



The specific objectives of biotechnology research and innovation under "Industrial Leadership" are

- to develop competitive, sustainable, safe and innovative industrial products and processes, and
- to contribute as an innovation driver in a number of European sectors like agriculture, forestry, food, energy, chemical and health as well as **bioeconomy**.

A strong scientific, technological and innovation base in biotechnology will support European industries securing leadership in this key enabling technology. This position will be further strengthened by integrating the safety assessment and management aspects of the overall risks in the deployment of biotechnology.

Examples of the rising importance of biotechnology are in industrial applications including biopharmaceuticals, food and feed production and bio-chemicals, of which the market share of the latter is estimated to increase by up to 12% - 20% of chemical production by 2015. In Europe's biopharmaceutical sector, already some 20% of the current medicines are derived from

## Submitted Biotechnology Proposals

**Identifier:** H2020-LEIT-BIO-2014-1

**First stage deadline:** 12-03-2014

**Second stage deadline:** 02-09-2014

**Budget:** 47.900.000,00 €

**Status:** Closed

A total of **26 proposals** were submitted in response to this call.

The number of proposals for each topics is shown below:

**BIOTEC-1-2014:** Synthetic biology – construction of organisms for new products and processes  
: **12 proposals**

**BIOTEC-3-2014:** Widening industrial application of enzymatic processes : **7 proposals**

**BIOTEC-4-2014:** Downstream processes unlocking biotechnological transformations : **7 proposals**



## Biotechnology Open Calls Overview : 2014-2015

**Deadline:** 24/02/2015

**Identifier:** H2020-LEIT-BIO-2015-1

**Deadline:** 24/02/2015, 17:00:00 (Brussels local time)

**Budget:** 29.600.000,00 €

**Status:** Open

### CURRENT CALLS

**BIOTEC-2-2015:** New bioinformatics approaches in service of biotechnology

**Planned Opening Date:** 22/10/2014      **Deadline:** 26/03/2015

**BIOTEC-6-2015:** Metagenomics as innovation driver

**Planned Opening Date:** 22/10/2014      **Deadline:** 26/03/2015

## H2020-BIOTEC-2014-2015: New bioinformatics approaches in service of biotechnology

H2020-LEIT-BIO-2015-1    **Sub-call of:** H2020-BIOTEC-2014-2015    **BIOTEC-2-2015**

**Planned Opening Date:**                      22-10-2014                      **Deadline Date:** 26-03-2015

**Stage 2:**    08-09-2015

**Total Call Budget:**    €28,840,000                      **Main Pillar:**                      Industrial Leadership

**Status:**    Forthcoming

**Specific challenge:** One of the greatest challenge facing the biotechnology community today is to be able to make use of the vast and dynamic influx of "omics" data. The synchronised development of bioinformatic concepts and related computational tools for prediction and modelling is a prerequisite to enable the exploitation of this wealth of biological data as a source of new biotechnological applications. These can range from industry and health to the environment and agriculture. Ethical aspects such as those related to confidentiality, sensitive data and data property are relevant to some bioinformatics applications.

**Scope:** Proposals should develop innovative bioinformatics approaches to close the gap between data availability and the discovery of new biotechnological applications. Proposals should in particular address the needs of SMEs active in the bioinformatics sector and should take into consideration international activities with the objective of fostering global solutions, standards and interoperability. Practical testing for validation of bioinformatics approaches should be considered.

## H2020-BIOTEC-2014-2015: New bioinformatics approaches in service of biotechnology

### Key challenges :

1. Development and/or integration of application-oriented databases taking into account the physical distribution, semantic heterogeneity, co-existence of different computational models and data and, as a consequence, of different interfaces.
2. New efficient statistical approaches for increased interpretative and predictive capacity of data, which are taking into account of the molecular complexity of living systems.
3. Innovative visualization methods, dedicated to an integrative and synthetic representation of large and heterogeneous datasets involving intuitive tools for visualising and examining data.

For this topic, proposals should include an **outline of the initial exploitation** and **business plans**, which will be developed further in the proposed project.

### Expected impact:

1. Facilitated access, handing and exploitation of existing databases paving the way for new biotechnological applications.
2. Bridging existing information from various application areas.
3. Accelerated process design and reduced time-to-market enabled by bioinformatics tools such as modelling and prediction.

## H2020-BIOTEC-2014-2015: Metagenomics as innovation driver

H2020-LEIT-BIO-2015-1

**Planned Opening Date:** 22/10/2014

**Stage 2:** 08/09/2015

**Total Call Budget:** €28,840,000

**Status:** Forthcoming

**Sub call of:** H2020-BIOTEC-2014-2015

**Deadline Date:** 26/03/2015

**Main Pillar:** Industrial Leadership

**Specific challenge:** Metagenomics has the potential to provide unprecedented insight into the form and function of heterogeneous communities of microorganisms and their vast biodiversity, without the need for isolation and lab culture of particular organisms. Microbial communities affect human and animal health, support the growth of plants, are critical components of all terrestrial and aquatic ecosystems and can be exploited to produce fuels or chemicals. However, in order to expand their potential further, the metagenomic methodologies need to overcome a number of challenges such as those related mainly to standardisation of experimental design, screening, sequencing technologies and bioinformatics relevant techniques.

**Scope:** Proposals should address the development of technologies that form the metagenomic toolkit to guide future developments in the field with view to enable metagenomic approaches responding to societal and industrial needs. Similarly, epigenetic modifications and the RNA and protein data (e.g. on cell-cell level) could be addressed to elucidate functional dynamics of communities of microorganisms. Activities will span between Technology Readiness Levels 3 and 5.

## H2020-BIOTEC-2014-2015: Metagenomics as innovation driver

The Commission considers that proposals requesting a contribution from the EU between EUR 6 and 10 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

### **Expected impact:**

- 1) Metagenomic methodologies to enabling enhanced understanding of communities of living organisms and empower agricultural, industrial, medical and other applications. This should bring significant and measurable improvements in productivity, yields, quality and functionality, as well as reduction of costs for the end-users.
- 2) Reduced time-to-market thus strengthening competitiveness of European industry and SMEs.
- 3) Identification of, for instance, human drug targets, commercially useful traits in agricultural plants, genes in microorganisms with industrial applications or unravelling pathogens, as well insights into microbial biodiversity for environmental applications.
- 4) Contribution to the standardisation work in the field at European and international level.

## BIO BASED INDUSTRIES PPP

**H2020-BBI-PPP-2014-1**    **Deadline Date:**    15-10-2014

**Budget:**    €50,000,000                      **Main Pillar:**                      Societal Challenges

**Status:**    Open

BBI.VC1.D1: Lignocellulosic residues to (di)carboxylic acids, diols and polyols

BBI.VC1.D2: Chemical building blocks and value-added materials through integrated processing of wood

BBI.VC1.R1: Efficient pre-treatment of lignocellulosic feedstock to advanced bio-based chemicals and biomaterials

BBI.VC2.D3: Advanced products from lignin and cellulose streams of the pulp and paper industry

BBI.VC2.R2: New sustainable pulping technologies

BBI.VC2.R3: New products from sustainable cellulose pulp exploitation

BBI.VC2.R4: Fibres and polymers from lignin

BBI.VC2.R5: Sugars from effluents of the pulping process and discharged fibres

BBI.VC3.D4: Functional additives from residues from the agro-food industry

BBI.VC3.F1: Added value products from underutilised agricultural resources

BBI.VC3.R6: Fermentation processes to obtain biosurfactants and specialty carbohydrates from agricultural and agro-industrial streams

BBI.VC3.R7: Protein products from plant residues

BBI.VC3.R8: Bioactive compounds from meso-organism's bioconversion

BBI.VC4.D5: Cost efficient manure valorisation on large scale

BBI.VC4.R10: Nutrient recovery from biobased waste streams and residues

BBI.VC4.R9: Valuable products from heterogeneous biowaste streams



## H2020-BG-2015-2:BLUE GROWTH: UNLOCKING THE POTENTIAL OF SEAS AND OCEANS

**H2020-BG-2015-2** Sub call of: H2020-BG-2014-2015 **Deadline Date:** 03-02-2015

**Stage 2:** 11-06-2015

**Budget:** €36,000,000 **Main Pillar:** Societal Challenges

**Status:** Open

BG-01-2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems

BG-02-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture

BG-07-2015: Response capacities to oil spills and marine pollutions



## H2020-ISIB-2015-2 Converting CO<sub>2</sub> into chemicals

### Innovative, Sustainable and Inclusive Bioeconomy

H2020-ISIB-2015-2 **Sub call of:** H2020-ISIB-2014-2015

**Deadline Date:** 03/02/2015

**Stage 2:** 11/06/2015

**Total Call Budget:** €15,000,000 **Main Pillar:** Societal Challenges **Status:** Open

**Specific challenge:** The CO<sub>2</sub> originating from the use of fossil resources continues to accumulate in the atmosphere, accelerating climate change with disrupting impacts on the biosphere. The chemical industry which heavily relies on these non-renewable and scarce fossil resources is looking for sustainable alternative resources to deliver the chemicals our society needs without the related environmental burden. While there are important scientific and technological challenges hindering the exploitation of CO<sub>2</sub> as a chemical feedstock, it offers great potential to couple environmental protection and economic growth.

**Scope:** Proposals should address innovative technologies to use CO<sub>2</sub> from the atmosphere or captured in industrial processes as a direct feedstock for chemical production beyond algal biorefinery concepts. One or several routes that involve the conversion of CO<sub>2</sub> into valuable chemicals should be explored, such as (photo) catalytic or biochemical/enzymatic or other novel process technologies. Examples include the use of microbial electrosynthesis, the use of photosystems from plants outside the plant cells - or to construct artificial carbon fixation pathways that are more efficient than naturally occurring ones. The Technology Readiness Levels covered by the projects should range from 3 to 5; please see part G of the general Annexes.

## H2020-ISIB-2015-2 Converting CO<sub>2</sub> into chemicals

The Commission considers that proposals requesting a contribution from the EU in the range of EUR 6 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

### **Expected impact:**

- 1) Scientific and technological breakthroughs for the conversion of CO<sub>2</sub> into chemicals which can lead to the design of industrial processes with zero or even negative greenhouse gas emissions;
- 2) Providing at the long term real opportunity for regions where the biomass availability is less plentiful, as is the case in Europe.
- 3) Considering the rather front-edge character of the proposed field, the impact is expected to be in the medium to long term.

**Type of action:** Research and innovation actions

## 2020-FETOPEN-2014-2015-RIA: Novel ideas for radically new technologies

FET-Open - Novel ideas for radically new technologies - Research Projects

H2020-FETOPEN-2014-2015-RIA Sub call of: H2020-FETOPEN-2014-2015

**Deadline Date:** 29-09-2015 Cut-off date(s) 30-09-2014

**Total Call Budget:** €154,000,000 **Main Pillar:** Excellent Science

**Status:** Open

**Specific challenge:** Supporting a large set of early stage, high risk visionary science and technology collaborative research projects is necessary for the successful exploration of new foundations for radically new future technologies. Nurturing fragile ideas requires an agile, risk-friendly and highly interdisciplinary research approach, expanding well beyond the strictly technological disciplines. Recognising and stimulating the driving role of new high-potential actors in research and innovation, such as women, young researchers and high-tech SMEs, is also important for nurturing the scientific and industrial leaders of the future.

**Scope:** Proposals are sought for collaborative research with all of the following characteristics:

1. Long-term vision: the research proposed must address a new, original or radical long-term vision of technology-enabled possibilities that are far beyond the state of the art and currently not anticipated by technology roadmaps.
2. Breakthrough S&T target: research must target scientifically ambitious and technologically concrete breakthroughs that are arguably crucial steps towards achieving the long-term vision and that are plausibly attainable within the life-time of the proposed project.
3. Foundational: the breakthroughs that are envisaged must be foundational in the sense that they can establish a basis for a new line of technology not currently anticipated.

## H2020-SFS-2015-2: Sustainable Food Security

H2020-SFS-2015-2 **Sub call of:** H2020-SFS-2014-2015

**Deadline Date** 03/02/2015

**Stage 2:** 11/06/2015

**Budget:** €104,000,000 **Main Pillar:** Societal Challenges

**Status:** Open

SFS-01c-2015: Assessing sustainability of terrestrial livestock production

SFS-02b-2015: Assessing soil-improving cropping systems

SFS-05-2015: Strategies for crop productivity, stability and quality

SFS-07b-2015: Management and sustainable use of genetic resources

SFS-10b-2015: Scientific basis and tools for preventing and mitigating farmed mollusk diseases

SFS-11b-2015: Consolidating the environmental sustainability of European aquaculture

SFS-13-2015: Biological contamination of crops and the food chain

SFS-16-2015: Tackling malnutrition in the elderly

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security

SFS-20-2015: Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement

# How to submit a HORIZON 2020 project?

Most of the EU funded projects are collaborative projects with at least 3 organisations from different EU Member States or Associated countries.



( authenticates your identity on European Commission websites )

**Participants Portal**  
requires you to authenticate



# Step 1: Searching tool for Biotechnology calls

The screenshot shows the European Commission Research & Innovation Participant Portal. The header includes the European Commission logo and the text "RESEARCH & INNOVATION Participant Portal". A navigation bar contains links for HOME, FUNDING OPPORTUNITIES, HOW TO PARTICIPATE, EXPERTS, and SUPPORT, along with a search bar and LOGIN/REGISTER buttons. A sidebar on the left is highlighted with a yellow border and contains "Horizon 2020" search options (Search Topics, Calls, Call Updates) and "Other EU Programmes 2014-2020" (Research Fund for Coal & Steel, COSME, 3rd Health Programme, Consumer Programme). The main content area features a "Funding Opportunities" section with a list of programmes: Horizon 2020 - EU research funding from 2014, Seventh Framework Programme (FP7), Competitiveness and Innovation Framework Programme (CIP), and other research and innovation programmes. Below this, there are two columns: "Horizon 2020" with an image of a globe and the text "Horizon 2020 is the new EU funding", and "COSME" with a description of the Programme for the Competitiveness of Enterprises and SMEs (COSME) running from 2014 to 2020 with a budget of €2.3bn.

European Commission

RESEARCH & INNOVATION  
Participant Portal

European Commission > Research & Innovation > Participant Portal > Funding Opportunities

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT Search PP LOGIN REGISTER

## Horizon 2020

Search Topics

Calls

Call Updates

## Other EU Programmes 2014-2020

Research Fund for Coal & Steel

COSME

3rd Health Programme

Consumer Programme

## Funding Opportunities

H2020 ONLINE MANUAL

Find the European Union funding opportunities and search for new or closed calls, grouped by the following programmes:

- **Horizon 2020 - EU research funding from 2014**
- **Seventh Framework Programme (FP7)**
- **Competitiveness and Innovation Framework Programme (CIP)**
- **other research and innovation programmes**

### Horizon 2020

Horizon 2020 is the new EU funding

### COSME

Programme for the Competitiveness of Enterprises and SMEs (COSME) will run from 2014 to 2020, with a planned budget of €2.3bn. It will facilitate SME access to finance, create supportive environment for business creation, help small

# Step 1: Searching tool for Biotechnology calls

The screenshot shows the European Commission Research & Innovation Participant Portal. The search bar contains the keyword "Biotechnology". A dropdown menu is open, displaying a list of search suggestions:

- Biotechnology (non-medical), bioreactors, applied**
- Biotechnology**
- Biotechnology sector**
- Marine biotechnology**
- Microbial biotechnology**
- Downstream applications of marine biotechnology**
- Plant biotechnology**
- Environmental biotechnology**
- Green biotechnology**
- White biotechnology**
- Health-related biotechnology**
- Industrial biotechnology**
- Agriculture biotechnology**
- Medical biotechnology**
- Applied biotechnology (non-medical), bioreactors,**

The page also features navigation tabs for HOME, FUNDING OPPORTUNITIES, HOW TO PARTICIPATE, EXPERTS, and SUPPORT. On the left, there are sections for "Horizon 2020" (with Search Topics, Calls, and Call Updates) and "Other EU Programmes 2014-2020" (including Research Fund for Coal & Steel, COSME, 3rd Health Programme, and Consumer Programme). The search results area shows 0 results for the keyword "Biotechnology".

# Step 1: How to find an open call?

The screenshot shows the Horizon 2020 Participant Portal. At the top, there is a navigation bar with the European Commission logo and the text "RESEARCH & INNOVATION Participant Portal". Below this is a breadcrumb trail: "European Commission > Research & Innovation > Participant Portal > Calls". The main navigation menu includes "HOME", "FUNDING OPPORTUNITIES", "HOW TO PARTICIPATE", "EXPERTS", "SUPPORT", a search box, and "LOGIN" and "REGISTER" buttons.

The main content area is titled "Horizon 2020 Calls for Proposals". On the left, there are several sidebar filters: "Horizon 2020" (with sub-filters for "Search Topics", "Calls", and "Call Updates"), "Other EU Programmes 2014-2020" (with sub-filters for "Research Fund for Coal & Steel", "COSME", "3rd Health Programme", and "Consumer Programme"), and "FP7 & CIP".

The main filter area includes "Excellent Science" (with checkboxes for "European Research Council", "Future and Emerging Technologies", "Marie Skłodowska-Curie actions", and "Research infrastructures"), "Industrial Leadership" (with checkboxes for "Leadership in enabling and industrial technologies(LEIT)", "Access to risk finance", and "Innovation in SMEs"), and a "Status" filter (with radio buttons for "Forthcoming", "Open", and "Closed"). There is a "Filter a call" input field and a "FILTER" button. Below the filters, a note states: "Filters only programme and call titles and IDs, for extended search go to the [Search Topics page](#)."

The "Sort by" section shows radio buttons for "Title", "Call Id", "Planned Opening Date" (which is selected), and "Deadline Date".

At the bottom, there are three call listings:

Programme	Call Title	Call ID	Deadline
Excellent Science	Marie Skłodowska-Curie Innovative Training Networks (ITN)	H2020-MSCA-ITN-2015	13/01/2015
Societal Challenges	Personalising health and care	H2020-PHC-2015-single-stage_RTD	24/02/2015
Societal Challenges	Personalising health and care	H2020-PHC-2015-two-stage	14/10/2014

# Search for open projects on the Participants Portal

The screenshot displays the European Commission Research & Innovation Participant Portal. The header includes the European Commission logo and the text "RESEARCH & INNOVATION Participant Portal". A breadcrumb trail reads "European Commission > Research & Innovation > Participant Portal > Calls". The navigation menu contains "MY AREA", "HOME", "FUNDING OPPORTUNITIES", "HOW TO PARTICIPATE", "EXPERTS", and "SUPPORT". A search bar labeled "Search PP" and a user profile for "YULIYA KRASYLENKO" are also visible.

The main content area is titled "Horizon 2020 Calls for Proposals". On the left, a sidebar offers "Horizon 2020" options: "Search Topics", "Calls" (selected), and "Call Updates".

The main filter area includes:

- Excellent Science**
  - European Research Council
  - Future and Emerging Technologies
  - Marie Skłodowska-Curie actions
  - Research infrastructures
- Industrial Leadership**
  - Leadership in enabling and industrial technologies (LEIT)
  - Access to risk finance
  - Innovation in SMEs

A "Filter a call" input field and a "FILTER" button are located below the categories. To the right, a "Status" filter is set to "Open":

- Forthcoming
- Open
- Closed



## A set of open projects on the Participants Portal

<p><b>Excellent Science</b> Marie Skłodowska-Curie Innovative Training Networks (ITN) H2020-MSCA-ITN-2015</p> <p>Deadlines: 13/01/2015 Opening Date: 23/07/2014</p>	<p><b>Societal Challenges</b> Personalising health and care H2020-PHC-2015-single-stage_RTD</p> <p>Deadlines: 24/02/2015 Opening Date: 23/07/2014</p>	<p><b>Societal Challenges</b> Personalising health and care H2020-PHC-2015-two-stage</p> <p>Deadlines: 14/10/2014 Opening Date: 23/07/2014</p>
<p><b>Societal Challenges</b> Personalising health and care H2020-PHC-2015-single-stage</p> <p>Deadlines: 21/04/2015 Opening Date: 11/12/2013</p>	<p><b>Societal Challenges</b> Health Co-ordination Activities H2020-HCO-2015</p> <p>Deadlines: 24/02/2015 Opening Date: 23/07/2014</p>	<p><b>Societal Challenges</b> Blue Growth: Unlocking the potential of Seas and Oceans H2020-BG-2015-2</p> <p>Deadlines: 03/02/2015 Opening Date: 11/12/2013</p>
<p><b>Societal Challenges</b> Blue Growth: Unlocking the potential of Seas and Oceans H2020-BG-2015-1</p> <p>Deadlines: 11/06/2015 Opening Date: 11/12/2013</p>	<p><b>Industrial Leadership</b> Enhancing SME innovation capacity by providing better innovation support H2020-INNOSUP-2015-3</p> <p>Deadlines: 29/04/2015 Opening Date: 11/12/2013</p>	<p><b>Industrial Leadership</b> Cluster facilitated projects for new industrial chains H2020-INNOSUP-2015-1</p> <p>Deadlines: 30/04/2015 Opening Date: 11/12/2013</p>
<p><b>Societal Challenges</b> Sustainable Food Security H2020-SFS-2015-2</p> <p>Deadlines: 03/02/2015 Opening Date: 11/12/2013</p>	<p><b>Societal Challenges</b> Sustainable Food Security H2020-SFS-2015-1</p> <p>Deadlines: 11/06/2015 Opening Date: 11/12/2013</p>	<p><b>Societal Challenges</b> Innovative, Sustainable and inclusive Bioeconomy H2020-ISIB-2015-2</p> <p>Deadlines: 03/02/2015 Opening Date: 11/12/2013</p>
<p><b>Societal Challenges</b> Innovative, Sustainable and inclusive Bioeconomy H2020-ISIB-2015-1</p> <p>Deadlines: 11/06/2015 Opening Date: 11/12/2013</p>	<p><b>Indirect actions</b> EURATOM FISSION - 2 NFRP-2014-2015-2</p> <p>Deadlines: 20/11/2014 Opening Date: 23/07/2014</p>	<p><b>Societal Challenges</b> Clean Sky 2 Call for Core Partners Wave 1 H2020-CS2-CPW01-2014-01</p> <p>Deadlines: 15/10/2014 Opening Date: 09/07/2014</p>
<p><b>Societal Challenges</b> FCH2 JU call for proposals 2014 H2020-JTI-FCH-2014-1</p>	<p><b>Societal Challenges</b> IMI2 1st Call for Proposals 2014 H2020-JTI-IMI2-2014-01</p>	<p><b>Industrial Leadership</b> ECSEL Call 2014-2 Innovation Actions ECSEL-2014-2</p>

## Step 2: CORDIS. Partners Search



# CORDIS

## Community Research and Development Information Service

European Commission > CORDIS > Partners Service > Guest > Home

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### EU Research Partners

Looking for research partners?

You can:

- 
- [Query more with an advanced search](#)
- Browse these active profiles and collaboration requests to build your network:
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  - [115 Open Calls for Proposals](#)
  - [4754 Partnership requests](#)
  - [1109 Proposing project](#)
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## Step 2: CORDIS. Partners Search

Role	Partnership requests <span>x</span>
<ul style="list-style-type: none"> <li>• <b>Project participant</b> (910)</li> <li>• <b>Project coordinator</b> (162)</li> </ul>	<p>Partnership request - <b>Industrial / non-academic host for secondment</b> Proposing a project Lonza is one of the world's leading and most-trusted suppliers to the pharmaceutical, biotech and s Country: Switzerland Last updated: 2014-09-11</p>
<p><b>What is offered</b></p> <ul style="list-style-type: none"> <li>• <b>Proposing a project</b> (189)</li> <li>• <b>Offering expertise</b> (877)</li> </ul>	<p>Partnership request - <b>BIOFUELS - studies materials/biofuel compatibility &amp; quality control specifications</b> Offering expertise CEMITEC has a broad experience in R&amp;D Projects related to quality of biofuels and compatibility bet Country: Spain Last updated: 2014-09-10</p>
<p><b>Expertise</b></p> <ul style="list-style-type: none"> <li>• <b>Biotechnology</b> (1076)</li> <li>• <b>Medicine. Health</b> (737)</li> </ul>	<p>Partnership request - <b>microsensors for health and safety</b> Offering expertise We have developed a microsensor platform for the combination of sensors and actuators into a single Country: Italy Last updated: 2014-09-10</p>

### Call for proposal

- **H2020-MSCA-IF-2014** (1)
- **H2020-LCE-2014-2** (2)
- **Without a call for proposals associated** (332)
- **H2020-SMEINST-1-2** (7)
- **H2020-INFRAIA-201** (3)
- **H2020-WASTE-2015**

### Country

- **Spain** (379)
- **Italy** (138)
- **Hungary** (59)
- **France** (53)
- **Germany** (51)
- **Romania** (48)
- **Czech Republic** (43)
- **Belgium** (24)
- **Slovenia** (22)
- **Portugal** (21)
- **Croatia**

## Step 3: Participants Portal - Authentication

EUROPA > Authentication Service > Login

 Login

[New password](#) [Sign Up](#) [Help](#)



( authenticates your identity on European Commission websites )

### Participants Portal

requires you to authenticate

**Login** [Not registered yet](#)

Is the selected domain correct?

**External** [Change it](#)

Username or e-mail address \*

Password \*

[More options...](#)

**Login!**

[Lost your password?](#)

# CORDIS : The examples of the successful projects

[http://cordis.europa.eu/projects/home\\_en.html](http://cordis.europa.eu/projects/home_en.html)

CORDIS

FP7, FP6, FP5 and earlier programs stretching back to 1990

Community Research and Development Information Service

European Commission > CORDIS > Projects & Results Service > Results page



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Search term:  
biotechnology  
Content type:  
Project

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- ▶ Programme
- ▶ Country

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## Search projects

Free text

biotechnology



Results 1 - 10 of 13650

Order by:

Relevance

Results/page:

10

1 2 3 4 5 6 7 8 9 10 > >|

1. [PROJECT] [The risk potential of biotechnology-derived polypeptides causing nephrotoxicity based on assessment in human and animal renal cell lines using molecular and cellular biology techniques](#)

**Ref.:** BIOT0266

**Start date:** 1991-03-01, **End date:** 1994-02-28

To develop a spectrum of immortalized renal cell lines tailored to combine characteristics that make them sensitive to biomolecules in vitro. These will be used to screen novel veterinary and therapeutic biotechnology

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## Individual Projects from 1990-2013

[PROJECT] [Plant molecular genetics for an environmentally compatible agriculture](#)

**Ref.:** BIO2930400

**Start date:** 1993-11-01, **End date:** 1997-08-31

The EU Biotechnology Programme (1992-94) work programme invited applications for the establishment of Projects of Technology Priority (PTP) that would secure added value for European R&D activities by helping participants in complementary projects covering different technologi...

**Programme:** FP3-BIOTECH 1

**Record Number:** 6207

**Last updated on:** 1995-08-16

[PROJECT] [BIOCARE - Molecular Imaging for Biologically Optimised Cancer Therapy](#)

**Ref.:** 505785

**Start date:** 2004-03-01, **End date:** 2008-12-31

Early tumour detection and response monitoring require maximum sensitivity and specificity of the imaging methods. The programme focuses on the clinical evaluation and development of new more specific molecular tracers for the early detection of tumour cells. A large number of...

**Programme:** FP6-LIFESCIHEALTH

**Record Number:** 75338

**Last updated on:** 2008-10-30

[PROJECT] [COMPTOX - Multilevel Modelling for Predictive Toxicology](#)

**Ref.:** 235429

**Start date:** 2010-07-01, **End date:** 2011-06-30

Computational toxicology seeks to apply modern computing and information technology, with molecular biology and chemistry to predict toxicity of chemical compounds and to improve risk assessment. Recent technological breakthroughs have made it possible to discover new mechanis...

**Programme:** FP7-PEOPLE

**Record Number:** 94332

**Last updated on:** 2013-03-28

[PROJECT] [Apoptosis and programmed cell death: molecular mechanisms and applications in Biotechnology and Agriculture](#)

**Ref.:** 844

**Start date:** 1999-12-08, **End date:** 2004-12-07

**Programme:** IC-COST

**Record Number:** 69373

**Last updated on:** 2003-03-05

[PROJECT] [VIRGIL - European Vigilance Network for the Management of Antiviral Drug Resistance](#)

**Ref.:** 503359

**Start date:** 2004-05-01, **End date:** 2008-10-31

The overall objective of the viRgil Network of Excellence is to set up the first-ever European Vigilance Network capable of addressing current and emerging antiviral drugs resistance developments. Focusing first on three major diseases (influenza and viral hepatitis B and C), ...

**Programme:** FP6-LIFESCIHEALTH

**Record Number:** 75304

**Last updated on:** 2013-03-26

[PROJECT] [SCR&TOX - Stem Cells for Relevant Efficient Extended and Normalized Toxicology](#)

**Ref.:** 266753

**Start date:** 2011-01-01, **End date:** 2015-12-31

In the development of products for use by humans it is vital to identify compounds with toxic properties at an early stage of their development, to avoid spending time and resource on unsuitable and potentially unsafe candidate products. Human pluripotent stem cell lines offe...

**Programme:** FP7-HEALTH

**Record Number:** 97710

**Last updated on:** 2014-08-08

## Sources of the participants support

**National Contact Points (NCP)** – contact your NCP for further assistance.

**Enterprise Europe Network** – contact your EEN national contact point for advice to businesses with special focus on SMEs. The support includes guidance on the EU research funding.

**Research Enquiry Service** – ask questions about any aspect of European research in general and the EU Research Framework Programmes in particular.

**IT Helpdesk** – contact the Participant Portal IT helpdesk for questions such as forgotten passwords, access rights and roles, technical aspects of submission of proposals, etc.

**Ethics** – to ensure compliance with ethical issues, further information is available on the [Participant Portal](#) and on the [Science and Society Portal](#).

**European IPR Helpdesk** assists you on intellectual property issues.

### **The European Charter for Researchers and the Code of Conduct for their recruitment**

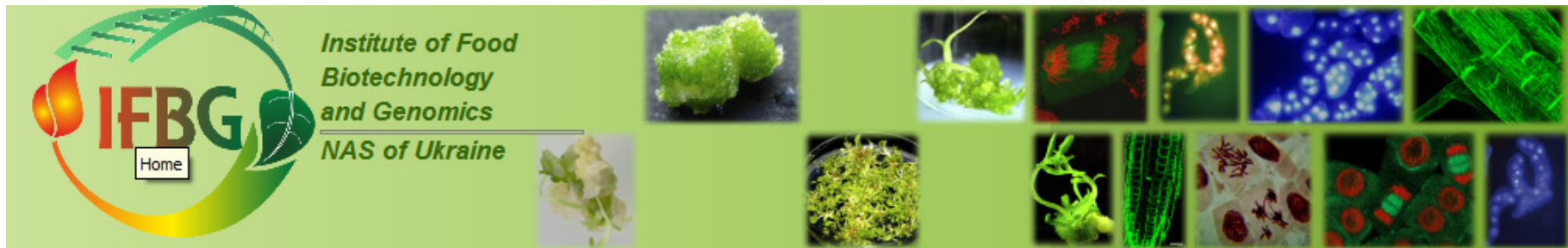
**CEN** and **CENELEC**, the European Standards Organisations, advise you how to tackle standardisation in your project proposal. Contact CEN-CENELEC Research Helpdesk at [research@cencenelec.eu](mailto:research@cencenelec.eu).

**Partner Search Services** helps you find a partner organisation for your proposal.

**H2020 Funding Guide** your online guide on the procedures from proposal submission to managing your grant.



# Institute of Food Biotechnology and Genomics, NAS of Ukraine



<b>Research Units</b>	▶	<b>Department of Genomics and Molecular Biotechnology</b>	▶	<b>The Department</b>
Academic Council		Department of Plant Food and Biofortification		Laboratory of Cell Biology and Nanobiotechnology
Education	▶	Department of Industrial and Food Biotechnology	▶	Laboratory of Bioinformatics and Structural Biology
Young scientists		Department of Renewable Raw Materials		Laboratory of Molecular Genetics of the Plants
Center of collective use		Biotechnology and Alternative Fuels		Laboratory of GMO Detection and Biosafety
Institute's cluster and grid node				
C SLabGrid				
National heritage				
Library	▶			
Research activities				

and scientific basis for biosafety;

[www.ifbg.org.ua](http://www.ifbg.org.ua)

Director of the Institute,  
 Prof., Dr.Sci.,  
 Full Member of NAS of Ukraine  
**Yaroslav Blume**



## Biotechnology and related fields NCP

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NCP “Biotechnology”

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<http://ifbg.org.ua/>

NCP “Food security, sustainable agriculture,  
marine and maritime research and the bio-  
economy”

<http://ifbg.org.ua/uk/horizon-2020-0>



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***Thank You for attention !***

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