



## Innovative Products from the Sea

Bioeconomy innovations emerge from renewable resources from land and sea respectively. There are already numerous products on the market, which are made of resources from the sea and are much fancier than their "traditional" counterparts. In the following, a glimpse into the future is given (...which is by no means exhaustive):

- **Nutritious food with algae:** Scientists assume that there are more than 500,000 types of algae of which only about 40,000 are thoroughly researched. Spirulina is the type of algae that is increasingly finding its way into our food. It is high in protein content, and contains healthy fatty acids and numerous vitamins. It flourishes on non-fertile ground and still has more protein than beef, which requires a hundredfold more land area to produce 1 kilogram of protein. In the future, it may become a powerful tool against malnutrition. Pasta with algae - for example - is not a novelty on the market anymore.
- **Bags and shoes made from fish skin:** Fish skin decomposes very fast, if not used. Instead it can be used and turned into leather. A small company in Africa has developed a process using plant extracts as tanning agents, hence avoiding the toxic chemicals that are usually associated with the process. The entrepreneur even extracts the latex-based gum from the fish skin as binding agent for the shoes. Usually, synthetic latex would be used for this.
- **Structural colours from the sea:** It is all about biomimetics! Entrepreneurs have discovered that the structural colour from marine bacteria can translate into coloured materials. These new colours allow a higher intensity of colours, are free of dangerous solvents, use less energy and water and still outperform natural dyes. The company is still in the start-up phase, but attracting interested customers quickly.
- **Shoes made from algae:** An amphibious shoe made for adventures on land and sea! There is a shoe on the market that has been created using algae-based foam, which is a sustainable alternative to the synthetic and petrochemical EVA prevalent in today's market. Using algae biomass helps offset the significant use of petroleum ingredients found in conventional flexible foams.
- **Blue nutrition:** Cod liver oil - for example - contains important nutritional components such as omega-3 fatty acids and vitamins. These are important for the proper functioning of an organism. The cod liver oil comes from the fresh liver of the Arctic cod, harvested in accordance with the rules of sustainable fishing.



### EMBRIC TA feedback workshop: 2nd call

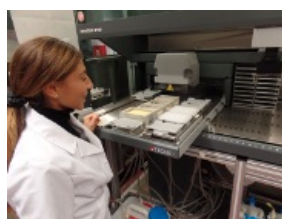
The Pasteur Institute is organising a workshop to gather feedback from Users, Access Providers, the Selection Panel and Research Infrastructures who participated in the 2nd Transnational Access call. The workshop will take place January 28th-29th 2019. The [registration](#) is already open. All organisational details with regard to hotels and travel recommendations can be found [here](#).

*Picture credit: Gabriella Luongo*

### Last EMBRIC General Assembly

The last General Assembly and Executive Committee meeting of the project will take place in Paris from May 21st (afternoon) to May 23th (morning) 2019 and will be hosted by Sorbonne Université.

This will be the closing event of EMBRIC with a focus on the project's success stories, vision papers and the ABS position paper as well as its legacy from a scientific and policy perspective.



### Presenting an Access Project

Mariarita Brancaccio (from SZN), who is currently at the FMP for the access project 5650, presented her work "Discovery of dermato-protective properties of 5-thiohistidine" on November 20th 2018.

## Discover our results



### Discovery Pipelines

EMBRIC has as its goal to facilitate translational marine science and remove existing bottlenecks, which are currently impeding blue innovation. To reach the goal, EMBRIC has set up experimental pipelines of high quality services, which guide scientists from within and outside the network through the marine discovery workflows offered by the EMBRIC cluster. The report on all pipelines can be downloaded [here \(Deliverable 3.2\)](#).

**Overview of all EMBRIC Pipelines**

- Secondary Metabolite Pipeline
- Carbohydrate Pipeline
- Protein Pipeline
- Aquaculture Breeding Pipeline

## Get to know ...

### The European Blue Bioeconomy Forum

**The Blue Bioeconomy Forum will host its first stakeholder event on 7th December 2018 in Amsterdam.**

**What is it all about?** The Blue Bioeconomy Forum brings together a partnership of industry, public authorities, academia, and finance in order to strengthen Europe's competitive position in the emerging blue bioeconomy. Main aim of the forum: develop a shared understanding of the current status of the emerging blue bioeconomy in Europe and to collectively identify strategic developments, market opportunities, appropriate financial assistance, regulatory actions and research priorities.

**Who joins forces?** The Blue Bioeconomy Forum is composed of a steering group and several working groups, supported by a secretariat managed by Technopolis Group and Wageningen University and Research. To ensure the engagement of the wider community of stakeholders, open events and online discussions will be organised.

**Upcoming Blue Bioeconomy Forum:** The first event takes place on the 7th of December 2018 at the Park Plaza at Amsterdam Airport. The brief opening plenary by Bernhard Friess, Director of the Directorate "Maritime Policy and Blue Economy" of the European Commission and Vitor Verdelho, member of the Blue Bioeconomy Forum is followed by an interactive panel discussion. During the panel discussion, five speakers give an overview of the current trends and activities in the blue bioeconomy. These sessions are followed by thematic working groups and presentations of projects pipelines. [The program can be downloaded here; registration for the event is still open.](#)



## Open Calls

### Accelerate your research with CORBEL's 2nd Open Call for biomedical research projects

The **CORBEL Open Call** invites researchers from academia and industry to apply to access a wide range of high-end technologies and services from more than 20 facilities from 10 different research infrastructures across Europe. These include state-of-the-art offers from the fields of advanced imaging, biobanking, clinical and translational research, curated databases, marine model organisms, mouse mutant phenotyping, high-throughput screening, structural biology as well as systems biology.

Learn more about the [CORBEL Open Call](#) by visiting the website. Special

information for industrial R&D projects is given on our website focusing on applicants from industry. **The 2nd Open Call will be closed on 31 December 2018.**

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## Call for Internship programme/ Instruct ERIC

Instruct ERIC provides access to state-of-the-art infrastructure and technology to support research in structural biology. The Instruct Internship Programme funds research visits of 3-6 months duration to Instruct Centres. Call for submissions for Instruct Internship projects 2019 are now invited. For more information and to apply please click [here](#). **Deadline for submission is 5pm CET, Friday 21st December 2018.**

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## European Chemical Biology Symposium 2019 in Madrid\_poster communications

This occasion brings together the 6th European Chemical Biology Symposium and the meeting of the EuChemS Division "Chemistry in Life Sciences" (LS-EuChemS) and it is jointly organized by EuChemS and EU-OPENSREEN.

Chemical biologists from all parts of Europe and overseas come together to present and discuss the latest achievements in cutting edge chemical sciences. This present joint meeting gathers researchers from organic & biological chemistry, proteins biotechnology, computational biology, protocells, machine learning, bacterial resistance, drug discovery, synthetic biology, biomedical materials and chemical glycobiology.

The deadline for sending oral and flash communications is closed. Participants can send their **poster communications until November 30th!** [More information](#).

## Open Jobs



**EU-Openscreen is looking for:**  
Finance and Accounting Officer,  
Compounds Logistics Manager, Grant  
and Project Manager

[More information](#)

## Upcoming EMBRIC events

- **EMBRIC Workshop and Breakfast Meeting "Treasures from the Deep"**, 5 March 2018 in Brussels, Belgium
- **EMBRIC TA feedback workshop** – Pasteur Institute – 28-29 January 2019, Registration open here: <http://www.embric.eu/node/1755>

## Other upcoming events

- "Responsible aquaculture development for food security and economic progress" training course, 26 November – 14 December, 2018, Wageningen (Netherlands)
- Corbel Webinar, "BBMRI-ERIC Quality Management Services for basic and applied research on human specimens" by Andrea Wutte (BBMRI-ERIC). The BBMRI-ERIC Quality Management Service (BBMRI.QM) is

designed to help biobanks and researchers meet the highest quality standards for their research and meet the needs of their clients. This webinar will give you an insight into the service portfolio of BBMRI.QM and an overview of relevant European and international standards useful for research on human specimens. Date: 6 December 2018, 15:30 CET, [registration is possible here](#).

- "Blue Bioeconomy Forum", 7th December 2018, Amsterdam, Netherlands
- "General Fisheries Commission for the Mediterranean fish forum" – December 10-14, 2018 – Rome, Italy  
[More information](#)
- „Increasing the impact of European investments in marine and maritime research“, 17 January 2019 - JPI Oceans Seminar
- "Blue Invest in the Mediterranean 2019", Malta 24 January 2019 – Call for expression of interest to pitch
- "World Aquaculture Society Meeting" 2019, 7-11 March 2019 in New Orleans, Louisiana, USA
- "6th ECBS/LS-EuChemS", 3-5 April 2019 in Madrid

EMBRIC project  
<http://www.embric.eu/>



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654008.

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