



## EMBRIC News



### Launch of the Microalgae Company Forum

*The European Marine Biological Research Infrastructure Cluster (EMBRIC) launches its [Microalgae Company Forum](#) at the AlgaEurope conference on December 5 in Berlin. With Company Forums, EMBRIC strives to drive innovation and support the industry by raising awareness of the resources and capacities that are available within European Research Infrastructures.*

Algae are green multi-talents. They can produce a wide range of high-value products: food or feed for fish cultivation, food supplements, or ingredients for pharmaceuticals or cosmetics. Alternatively, algae can also be used for energy production and waste treatment. At the AlgaEurope conference, experts from research and industry meet to discuss recent developments and to get an update of existing initiatives. EMBRIC joins this year's conference to launch its Microalgae Company Forum.

Companies are invited to use EMBRIC services and profit from the vast knowledge of its research infrastructures. Several laboratories with longstanding experience in the cultivation of marine microalgae offer the possibility of growing and collecting large volumes of material for exploitation. They guarantee access to a broad variety of algae, from polar species to warm-temperate species and are experienced in cutting-edge technology. Join us at our stand at the AlgaEurope to find out more.

#### **EMBRIC talks & reception at the AlgaEurope:**

Date: 05.12.17: 11.50 – 12.50

Plenary talk by Philip Gribbon (Fraunhofer IME ScreeningPort, Germany) on "The European Marine Biological Research Infrastructure Cluster, an overview"

Date: 05.12.17: 17.30 – 17.50

Talk by Francois-Yves Bouget (Oceanographic Observatory of Bayuls sur Mer, France) on "Microalgae for blue biotechnological applications: enhancing carotenoids production in *Ostreococcus*"



## Highlights of the first transnational access call

The **EMBRIC Transnational Access** programme fosters the maturation of research projects in the field of marine biotechnology. A second call for applicants will open in February 2018.

### What kind of projects are funded under the transnational access call?

One example is the "Cryopreservation of brown algae gametophytes", which tackles the challenge that the emerging seaweed aquaculture sector needs sustainable management strategies (including storage possibilities). Cryopreservation offers the possibility for long-term, stable storage of living cells at ultra-low cryogenic temperatures. The project has explored the use of different cryopreservation techniques and protectants on male and female *S. latissima* gametophytes. The preliminary results generated by this study give new insights into method development within the field of algal cryopreservation, more specifically the gametophytic life-stage of the commercially interesting kelp species *S. latissima*.

### Who supports your project?

Each project is usually supported by two so-called access providers. Overall, 15 access providers offer high-quality facilities and pioneering technology platforms within EMBRIC to applicants ([get an overview here](#)). For this project, the Scottish Association for Marine Science and the Centre for Agriculture and Biosciences International contributed their expertise. "Get in touch and benefit from the diversity of expertise we have to offer" stresses Davide Di Cioccio, who manages the transnational access call.



## Blue Growth Research & Innovation Day

The European Commission invited interested stakeholder and policy makers to the [Blue Growth Research & Innovation Day](#) on the 17th of November in Brussels. The main purpose of the event was to get an overview of the interdisciplinary marine, maritime and aquatic research and innovation in Horizon 2020. EMBRIC participated and tweeted about the event.

## In the spotlight



### Prize for best poster at the European Aquaculture Society conference

Mathieu Besson from the EMBRIC project won a prize for the best poster at the European Aquaculture Society conference (17.-20.10.17) in Dubrovnik. This conference is one of the largest meetings with the principal objective to promote contacts between academia, policy makers and industry involved or interested in marine and freshwater



### Prize for best presentation at the Scottish Metabolomics Network Symposium

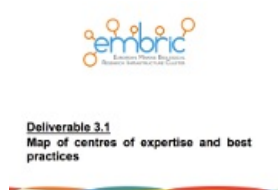
The Scottish Metabolomics Network Symposium is the meeting place for all those utilising metabolomics in their research in Scotland. It was hosted from the 2.-3. of November 2017 in Glasgow. Emily Abraham from the EMBRIC project presented her work on identifying novel antibiotics and won the prize for the best early career researcher presentation. Her

aquaculture. Mathieu and his team looked at how to improve the individual feed conversion ratio (FCR) which is the ability of fish to convert feed into biomass. Assuming that a better FCR reduces the use of resources, he phenotyped individual fish for FCR by rearing them in different aquaria. Finally, he combined the individual phenotypes with the genotypes of the fish to prove that the individual FCR could be improved by selective breeding. [Take a look at his poster](#) and get in touch with Mathieu, if you want to know more: mathieu.besson@inra.fr

approach: reading the genomes of a series of actinomycete bacteria to identify signature genes for natural products, target those biosynthetic gene clusters that are very different from known clusters for heterologous expression, identify and discount previously known and isolated compounds using LCMS-MS to focus efforts on compounds that are likely to show the highest novelty. Get in touch with her, if you want to know more: ea53@st-andrews.ac.uk

## Discover our results

EMBRIC started in 2015 and has since then published various interesting results. If you want more insights and see what has been accomplished so far, please have a look [here](#).



### Map of centres of expertise and best practices

The discovery and exploitation of marine bioproducts for research and commercial development requires access to current resources, technologies and solutions. To facilitate this, the EMBRIC consortium mapped the specific expertise and resources within the participating institutes. This overview also helps to identify gaps and bottlenecks.

Discovery Pipelines for Marine Bio-Products

## Upcoming events



### Launch of Microalgae Company Forum at AlgaEurope conference

Who: the EMBRIC consortium  
What: launches its Microalgae Company Forum  
When: 5 December  
Where: AlgaEurope conference  
Why: We want you to profit from our expertise

#### Other upcoming EMBRIC events:

- EMBRIC Symposium "Successful roads from organisms to molecular tools": 22-23 March 2018 at Campus Berlin Buch, Berlin
- Company Forum Workshop "Advances in Aquaculture Genetics: North meets South" in Bergen, Norway 3-4 May, 2018
- **Training offer:** COLUMBUS Training Course: "Creating Impact by Knowledge Transfer for Funding Agencies" at Corpus Christi, United States on 15 Jan 2018
- **Training offer:** "Invertebrate Taxonomy, Metagenomics, and Bioinformatics (BITMaB) Workshop" in Hinxton, United Kingdom on 13 Mar 2018

## Job offers

**Vacancies: 11 Early Stage Researcher positions available in MSCA-ITN-ETN project MixTiN**

Want to help bring marine ecology into the 21st century by incorporating mixotrophy into mainstream field-lab-modelling research? Applications are open for 11 Marie Skłodowska-Curie Early Stage Researchers within our H2020 MSCA ITN project MixITiN. MixITiN will train 11 ESRs in a range of skill sets from molecular biology, ecophysiology and computer modelling, to environmental management, public and media engagement. Training will be provided in multi-national and multi-disciplinary centres of excellence, with comprehensive engagement of academics as well as non-academics. For further details and on information of how to apply please visit project MixITiN at [www.mixotroph.org](http://www.mixotroph.org)

**Vacancy: Science Communications and Project Support Officer position available in MSCA-ITN-ETN project MixITiN**

Want to help sell cutting edge science changing the face of marine ecology? Enjoy communicating with researchers, media and public? Enjoy travelling? We may have just the job for you. Applications open for 1 Science Communications and Project Support Officer position within the MSCA project MixITiN. For further details and on information of how to apply please visit project MixITiN at [www.mixotroph.org](http://www.mixotroph.org)

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



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