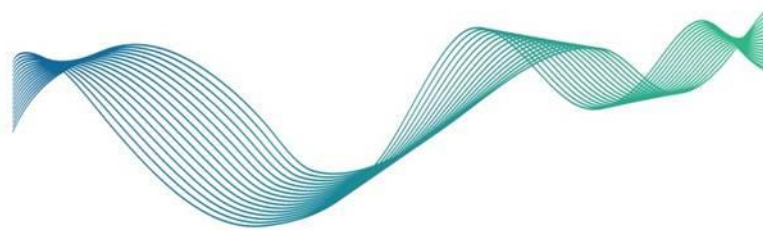


# MarineBiotech



## Marine Biotechnology ERA-NET

Fien De Raedemaeker

Vlaams Instituut voor de Zee (VLIZ)

fien.deraedemaeker@vliz.be

‘Infosessie ‘Tweede oproep voor onderzoeksprojecten door het  
Marine Biotechnology ERA-NET’

18/01/2016



Marine Biotechnology ERA-NET (ERA-MBT) is funded under the European Commission's Seventh Framework Programme. Grant Agreement Number 604814  
December 2013 - November 2017



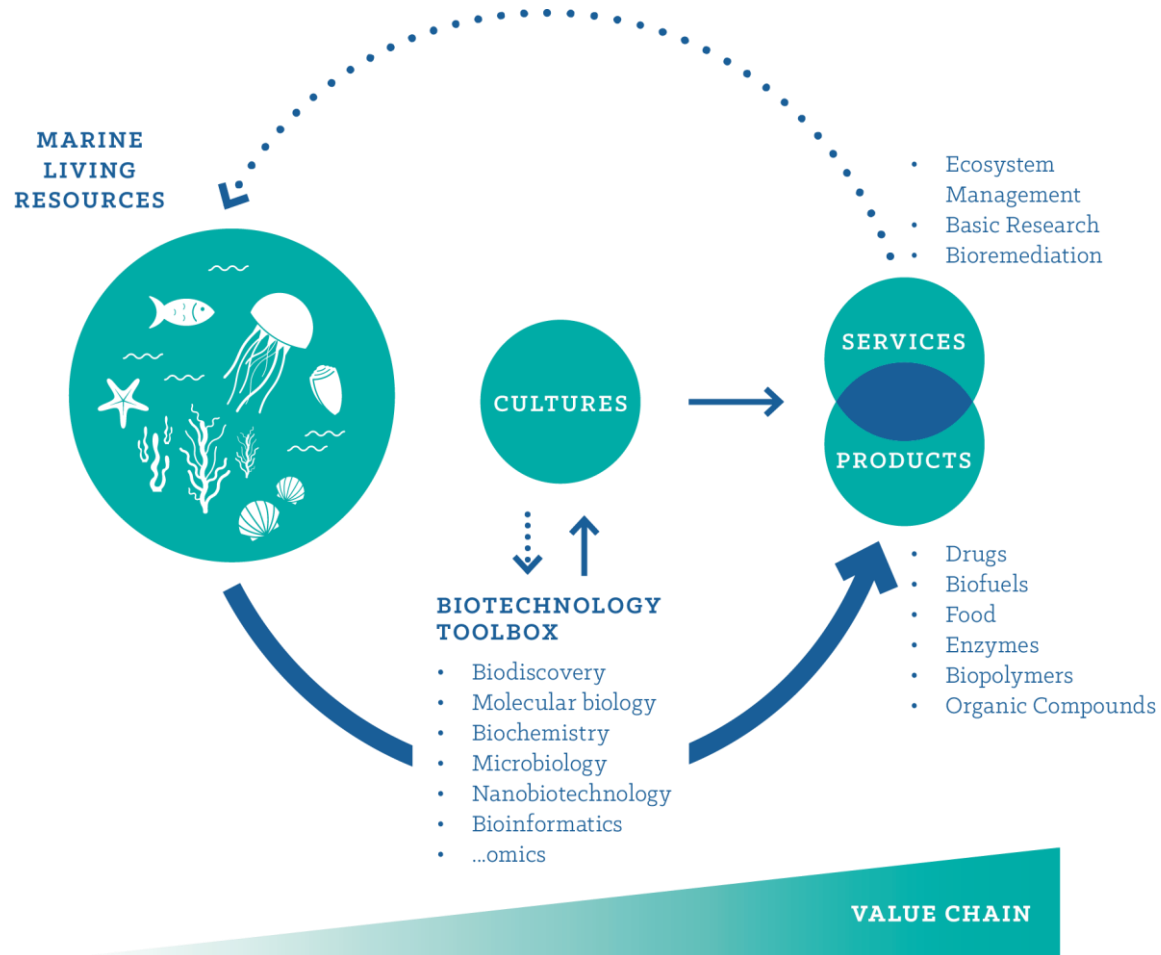
- ▼ Home
  - Over ons
  - Wat is mariene biotechnologie?
- ▼ Mariene Biotechnologie in Vlaanderen
  - Personen
  - Instellingen
  - Projecten
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- Word lid op LinkedIn

## Over ons

In Vlaanderen zijn een aanzienlijk aantal wetenschappers betrokken in verschillende aspecten van het mariene biotechnologisch onderzoek en bestaat er vanuit de bedrijfswereld een grote interesse in marien biotechnologisch onderzoek en de industriële toepassingen ervan. Toch blijken deze activiteiten niet duidelijk zichtbaar voor de buitenwereld. Het 'Mariene Biotechnologie Platform Vlaanderen' wil daarom de visibiliteit van mariene biotechnologie verhogen zodat dit kan bijdragen tot de algemene erkenning van het onderzoek en kan leiden tot een verbeterde samenwerking en het bevorderen van de interdisciplinariteit.



# Wat is mariene biotechnologie



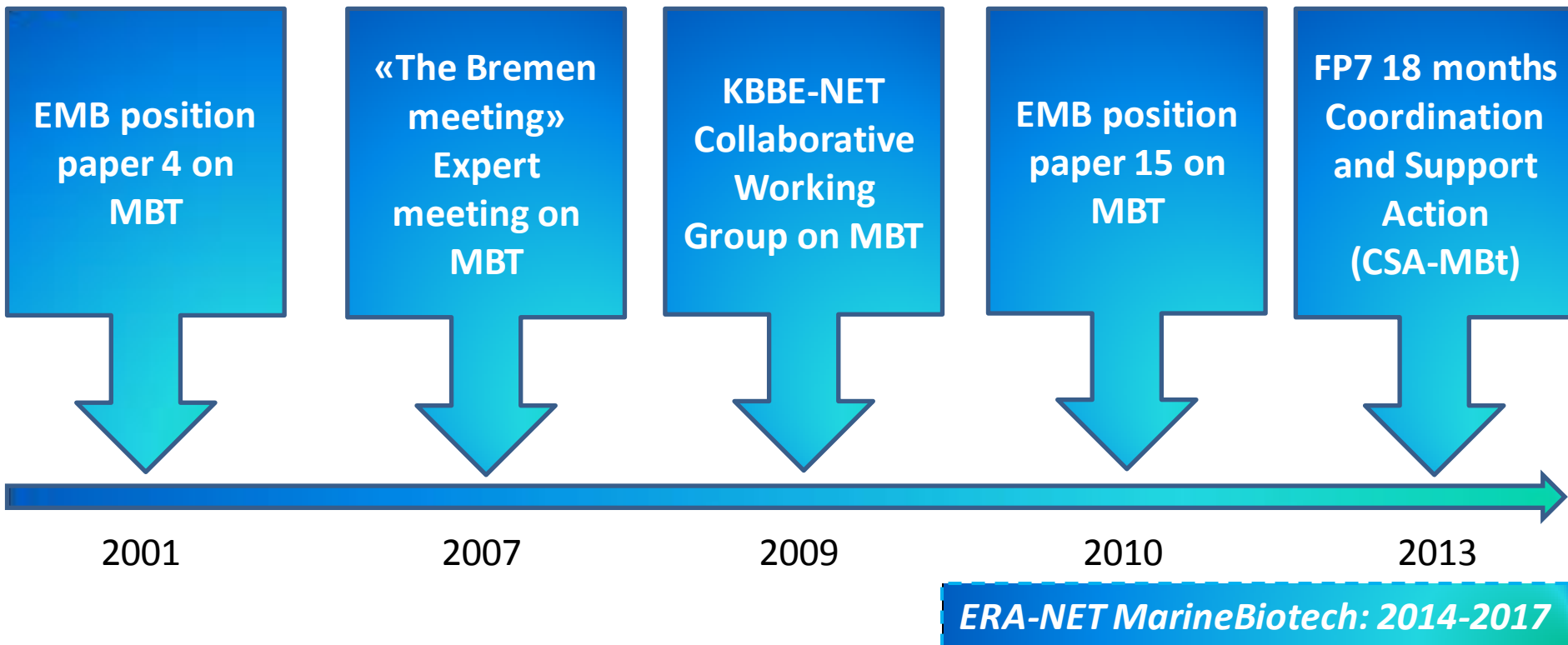
# Waarom een ERA-MarineBiotech?

---

- **Mariene ecosystemen en organismen in Europa zijn:**
  - Weinig bestudeerd en onderbenut
- **De immense biodiversiteit in Europese zeeën en oceanen kunnen bijdragen tot:**
  - Voedselproductie, ecosysteem diensten, innovatieve ontwikkelingen voor maatschappelijk belang (gezondheid, milieu, industriële producten en processen, energie... )
- **Een duurzame ontwikkeling van mariene biotechnologie:**
  - bevordert de kennis over mariene ecosystemen
  - bevordert de ontwikkeling van de bio-economie en de realisatie van het economisch potentieel
  - integreert de maatschappelijke uitdagingen met het wettelijk kader
  - bevordert de aanpak van de Grand Challenges van deze tijd

# Waarom een ERA-MarineBiotech?

Belangrijkste gebeurtenissen voorafgaand aan het Marine Biotechnology ERA-NET:



# CSA-MarineBiotech

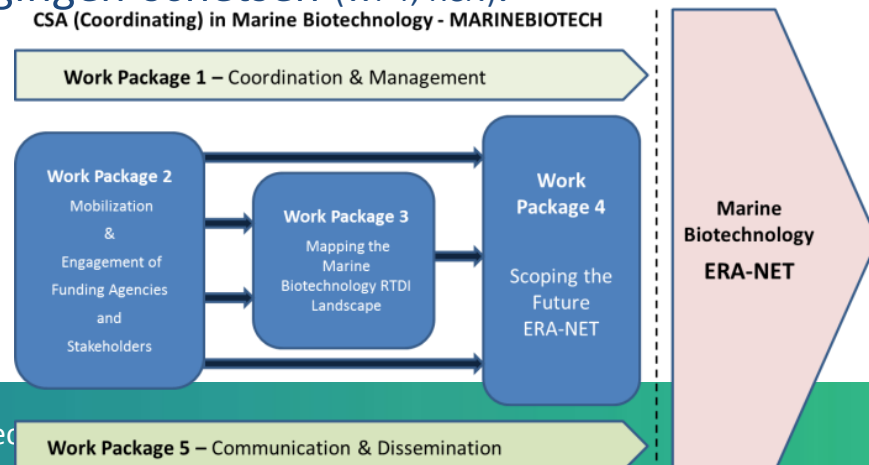
## Doelstellingen:

### 1. De basis voorbereiden voor een ERA-NET in mariene biotechnologie

- Financieringsinstellingen en stakeholders mobiliseren en betrekken in een ‘Strategic Forum’ en een ‘Stakeholder Group’ (WP2, FCT).
- Uitbreiden van het partnerschap met financieringsinstellingen die zich willen engageren in een ERA-NET in marine biotechnologie (WP2/4, FCT/RCN).
- Het marine biotechnologie landschap in Europa en internationaal in kaart brengen (WP3, ESF-MB).
- Toekomstige mogelijkheden en uitdagingen schetsen (WP4, RCN).

### 2. Het potentieel van mariene biotechnologie en de toegevoegde waarde van een ERA-NET voor een ‘ERA’ communiceren (WP5, VLIZ).

October 2010 → March 2013



# ERA-MarineBiotech partners

19 partners  
in  
14 landen

[www.marinebiotech.eu](http://www.marinebiotech.eu)

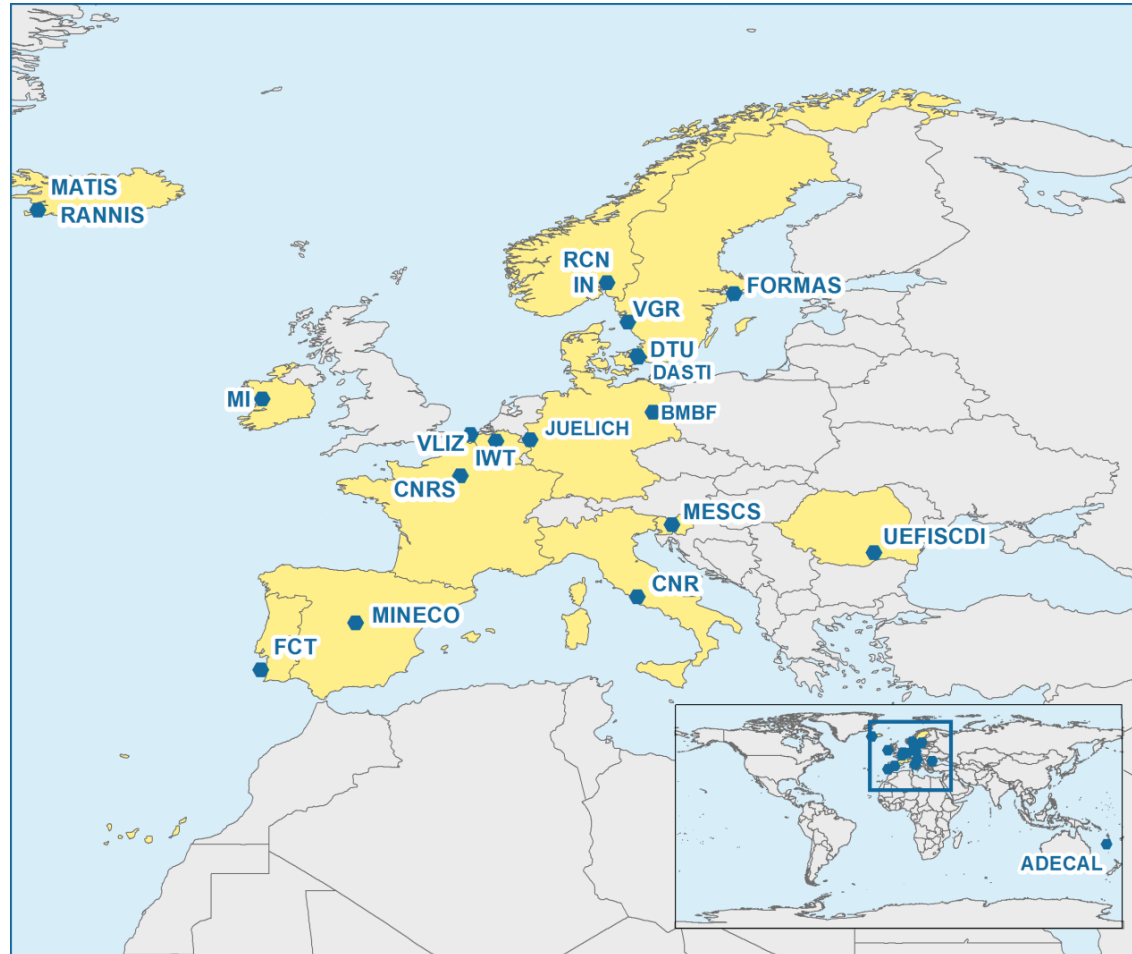


**Coordinator**  
**Steinar Bergseth**  
Norwegian Research Council



**Deputy-Coordinator**  
**Torger Børresen**  
Innovation Fund Denmark

**Projectsduur:**  
**2014-2017**



# Doelstellingen en Structuur

---

- **Duplicatie van onderzoek voorkomen en complementariteit zoeken tussen Europese landen bij lopende en nieuwe inspanningen**
  - Waarde toevoegen aan het 'ERA' door het identificeren van tekortkomingen en uitdagingen voor ontwikkelingen rond mariene biotechnologie
  - Samenwerking bevorderen (intern & extern) en middelen bundelen om gezamenlijke financiering van transnationale projecten uit te voeren met verbeterde coördinatie
- **Hindernissen identificeren en valorisatie van mariene biotechnologie stimuleren**
- **Zorgen voor verantwoord onderzoek en innovatie binnen wettelijk kader**
- **Het potentieel van Mariene Biotechnologie communiceren**
  - Het Europese MBT portaal als een unieke vorm van informatie: [www.marinebiotech.eu](http://www.marinebiotech.eu)



# Activiteiten ERA-MarineBiotech

➤ **Organiseren van minstens drie oproepen voor onderzoeksprojecten**



20 oktober 2014



1 december 2015



Verwacht eind 2016

# Activiteiten ERA-MarineBiotech

- In kaart brengen van het mariene biotechnologie landschap (update van CSA MarineBiotech mapping) [www.marinebiotech.eu](http://www.marinebiotech.eu)

[www.marinebiotech.eu](http://www.marinebiotech.eu)

- ➔ Resources
- ➔ Infopages
- ➔ Europe



Marine Biotechnology ERA-NET

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## Marine Biotechnology in Denmark

Go back to: Home > Strategies, Policies and Programmes > European countries

Contents [hide]

- 1 Overarching science strategies, plans and policies
- 2 Research funding schemes and programmes
- 3 Private funding mechanisms
- 4 Research priorities for marine biotechnology
- 5 Infrastructures and coordination and support capacities / initiatives
- 6 Major initiatives
- 7 Major observations, trends and future prospects
- 8 References
- 9 Disclaimer

UPDATED July 2015

### Overarching science strategies, plans and policies

- National Whitepaper: "Research2020" description of the focus areas for strategic research. The paper was published in May 2013.<sup>[1]</sup>

### Research funding schemes and programmes

- Innovation Fund Denmark (IFD)** was established 1 April 2014 by a merger between the Danish Council for Strategic Research (DSF), the Danish Council for Technology and Innovation (RTI) and the Advanced Technology Foundation (Højteknologifonden). During 2014 the programmes operated by the three units were concluded, and as of 1 January 2015 a complete reorganisation is being instituted. After the reorganisation IFD offers support for three different project categories:
  - Talents:** For undergraduates, recent graduates or postgraduate researchers aiming to become entrepreneurs or to secure a research career in the private sector.
  - InnoRooster:** For small enterprises and entrepreneurs with sound development plans.



Marine Biotechnology ERA-NET

Login Sitemap Search ...

Home ERA-MBT Activities News & Events Resources Contact

Resources

One of the central aims of the ERA-MarineBiotech is to provide a marine biotechnology. Open-access resources will be updated continuously during the ERA-MarineBiotech and beyond. This **long-term living resource** will serve as an **information exchange hub** to mobilize a broad European marine biotech RTDI community.

- Infopages > General info
- Database > Europe
- Library > Beyond Europe

# Activiteiten ERA-MarineBiotech

- Een perspectief ontwikkelen over de toekomst van mariene biotechnologie in Europa

## *Preface*

*In responding to Europe's strategy for 'blue growth' the marine biotechnology ERA-NET is working with policy, business and research communities on long-range plans to strengthen marine biotechnology capabilities and competencies.*

*This foresight exercise, in this case termed an OUTLOOK process, conducted by the ERA-MBT project highlights future research and innovation areas that need to be addressed to allow European industry to benefit from marine biotechnology. The analysis and vision in this report will help ERA-MBT to continue to expand its influence on marine biotechnology developments.*



# Activiteiten ERA-MarineBiotech

- ‘International Advisory Group’, een expertengroep die vanuit verschillende perspectieven werkt (wetenschap, beleid, industrie)

## *International Advisory Group*

*The International Advisory Group (IAG) will serve as ERA-MBT’s “think-tank” group and as a reference point for all strategic initiatives undertaken by the ERA-MBT consortium. Providing strategic guidance and advice, the IAG will be involved in ERA-MBT over the life-time of the project. The diverse background and experience of the IAG members will be of great importance when providing input to activities such as developing the strategic roadmap, defining research priorities and reviewing ERA-MBT performance, in addition to broader issues associated with the implementation of ERA-MBT.*



# Activiteiten ERA-MarineBiotech

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- **Ontwikkeling van een 'Strategic Roadmap'**

# Activiteiten ERA-MarineBiotech

## ➤ Educatie en trainingsactiviteiten

- Online vragenlijst
- Mapping van bestaande training/educatie en gap analyse
- Integreren van European Marine Training Portal in de marinebiotech website



The screenshot shows the homepage of the Marine Training EU website. At the top right, there are links for 'Contact us', 'Newsletter', and 'Log in'. The main header features the logo 'MARINETRAINING.EU' and the tagline 'NAVIGATING THE MARINE TRAINING AND EDUCATION LANDSCAPE IN EUROPE'. A navigation bar includes 'Home', 'Training Catalogue', 'Services for training organizers', 'About', and 'Contact us', along with a search bar labeled 'Search (full catalogue)'. Below the navigation bar, the 'Programme Search' section is visible, showing 'Sort by: Start date' and pagination controls for '1', '2', 'next', and 'last'. The search results for 'Current search' show 'Search found 21 items' and a list item: '(-) ERA-NET Marine Biotechnology'. Below this, there are icons for a clock, a sun, and a building, followed by details for 'Master in Marine Ecology and Resource Biology': 'Language: English', 'Venue: Tromsø, Norway', and 'Start date: 24 Aug 2015'. The university name 'Universitetet i Tromsø - UiT Norges arktiske universitet (UiT The Arctic University of Norway)' is also displayed. At the bottom, another search result 'Master Aquaculture and Marine Resource Management' is partially visible.

# Activiteiten ERA-MarineBiotech

- Organiseren van stakeholder events om de dialoog tussen academische, industrie en beleidssector te verbeteren en voorwaarden voor succesvolle ontwikkelingen te identificeren



**WAVES OF INNOVATION**  
*Integrating National Efforts to Build the Future  
of Marine Biotechnology*  
28<sup>th</sup> - 29<sup>th</sup> October 2014, Lisbon, Portugal  
<http://www.marinebiotech.eu/stakeholder-meeting>



**ERA-MBT Workshop on collaboration  
opportunities**  
8<sup>th</sup> - 9<sup>th</sup> September 2015, Berlin, Germany  
<http://www.marinebiotech.eu/news-and-events/era-news/workshop-collaboration>

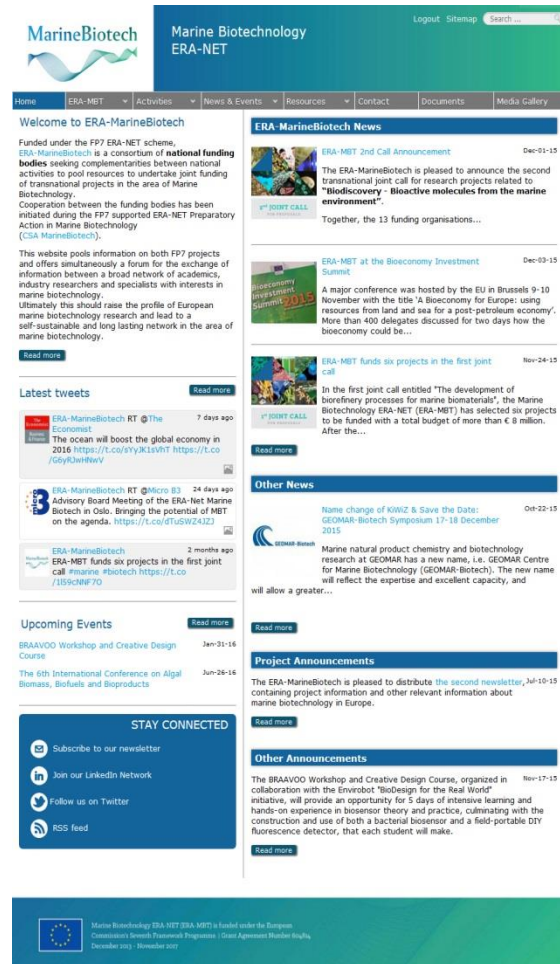
# Activiteiten ERA-MarineBiotech

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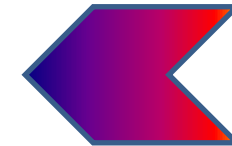
- **Ontwikkelen van een blijvend netwerk om mariene biotechnologie te ondersteunen**



# De MarineBiotech Portaal



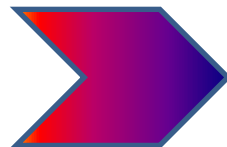
The screenshot shows the homepage of the MarineBiotech ERA-NET website. The header includes the logo and navigation menu. The main content area features a welcome message, news articles, tweets, upcoming events, and a 'STAY CONNECTED' section with social media links. A large blue arrow points to the right from the bottom of the page.



**ERA-MBT 2nd Call announcement**

**Blijf op de hoogte:**

- Nieuwsbrief
- LinkedIn Discussieplatform
- Wiki- pagina's



# Eerste transnationale oproep voor onderzoeksprojecten

---



- **Topic**
  - *The development of biorefinery processes for marine bioresources*
- **Tijdslijn**
  - Publicatie 'call text': **18 October, 2014**
  - Deadline voor pre-proposals: **10 December, 2014**
  - Deadline voor full proposals: **30 April, 2015**
  - Externe evaluatie: **Juni, 2015**
  - Aankondiging selectie: **September 2015**
  - Projecten starten **eind 2015 - begin 2016**
- **Details op** <http://www.marinebiotech.eu/first-transnational-call>

## ABSTRACT

SeaRefinery will develop eco-friendly chemical and enzymatic processing technologies to extract and purify high value-added components such as antioxidants, antimicrobial components and hydrocolloids from cultivated seaweed species (e.g. Saccharina latissima) in an integrated biorefinery. Bioactive compounds, e.g. phlorotannins, fucoidan, and laminarin, will be selectively tested for bioactivity. In addition, laminarin and marine proteins will be tested in nutraceutical and selected food model systems. Alginate will be tested as additive for textile applications via coating and extrusion technologies. In order to maximise the value of the biorefinery feedstock (input) and derived products (output), we will grow monocultures on innovative textile cultivation substrates with high yield biomass production. Seasonal variation, replicated over two years, of the selected biomolecules will be a measuring tool for harvesting the seaweeds with maximum contents of bioactive compounds.



Dr Anne-Belinda Bjerre, Project Coordinator  
Danish Technological Institute  
Denmark

### Topic:

- Feed
- Materials
- Cosmetics/ceuticals (e.g. skincare)
- Health (e.g. food supplements)
- Pharmaceuticals

### Marine biomass:

- Macroalgae

### Keywords:

Seaweed, Saccharina latissima, cultivation, harvesting, storage, preconversion, biorefinery, bioactive, hydrocolloids, protein, nutraceuticals, functional foods, pharmaceuticals, biobased materials, extraction, enzymes, green solvents

**Total costs\*:** € 2.607.074

**Funding granted\*:** € 1.406.156

**Duration:** 3 years (2016-2018)

\* Exact amount may change after completion of national contracts

## CONSORTIUM

Name	Organisation	Country
Anne-Belinda Bjerre	Danish Technological Institute	Denmark
Rósa Jónsdóttir	MARINOX EHF	Iceland
Sarah Hotchkiss	CyberColloids Ltd	Ireland
Bert Groenendaal	SIOEN Industries NV	Belgium
Guy Buyle	Centexbel	Belgium
Job Schipper	Hortimare AS	Norway
Jan Alexander Villadsen	ViVoX ApS	Denmark
Helen Oshea	Cork Institute of Technology	Ireland



Marine Biotechnology ERA-NET (ERA-MBT) is funded under the European Commission's Seventh Framework Programme. | Grant Agreement Number 604514, December 2013 - November 2017

## ABSTRACT

Novel enzyme-based extraction technologies will be applied to algal biomass derived from selected algal taxonomic groups including macroalgae (seaweeds), microalgae and cyanobacteria. Algal species will be chosen according to their potential to produce high bioactive levels which will be further enhanced by applying abiotic stresses. Algal extracts produced by enzymatic and traditional approaches will be tested for multiple applications, concentrating on antioxidant and antimicrobial activities with applications in food, cosmetics, animal health (aquaculture) and personal/home care. Extracts that exhibit high activities will be chemically characterised to identify active components.



Dr Dagmar Stengel, Project Coordinator  
National University of Ireland Galway  
Ireland

### Topic:

- Food
- Feed
- Materials
- Cosmetics/ceuticals (e.g. skincare)
- Health (e.g. food supplements)
- Pharmaceuticals
- Environment and monitoring (e.g. biosensors, anti-fouling technology, bioremediation...)

### Marine biomass:

- Microalgae
- Microalgae
- Bacteria

### Keywords:

Algae, antioxidant, antimicrobial, aquaculture, bioactive, cosmetics, cyanobacteria, enzymatic extraction, food, home care

**Total costs\*:** € 894.918

**Funding granted\*:** € 759.976

**Duration:** 2 years (2016-2018)

\* Exact amount may change after completion of national contracts

## CONSORTIUM

Name	Organisation	Country
Dagmar Stengel	National University of Ireland Galway	Ireland
Alan Dobson	University College Cork	Ireland
Peter Bossier	Ghent University	Belgium
Sarah Hosking	Unilever	UK
Jeanette Andersen	UiT- The Arctic University of Norway	Norway



Marine Biotechnology ERA-NET (ERA-MBT) is funded under the European Commission's Seventh Framework Programme. | Grant Agreement Number 604514, December 2013 - November 2017

# Tweede transnationale oproep voor onderzoeksprojecten

---



- **Topic**
  - *Bioactive molecules from the marine environment – Biodiscovery*
- **Tijdslijn**
  - Publicatie 'call text': **1 december, 2015**
  - Deadline voor indiening: **16 maart, 2016**
  - Externe evaluatie: **6,7 juli, 2016**
  - Aankondiging selectie: **September 2016**
  - Projecten starten **eind 2016 - begin 2017**
- **Details op** <http://www.marinebiotech.eu/second-transnational-call>

# ERA-MBT online submission system

[www.submission-marinebiotech.eu](http://www.submission-marinebiotech.eu)



PtJ Submission Platform

2ND CALL

PARTNERING PLATFORM

MARINEBIOTECH

LEGAL NOTICE

ERA-MBT 2ND CALL  
BIODISCOVERY

## CONTACT

**Dr. Marta Norton (Joint Call Secretariat)**

+351-213911565

erambt2015@fct.pt

**Dr. Jens Schiffers (Technical support / electronic submission system)**

+49 2461 61-3972

j.schiffers@fz-juelich.de

## SUBMISSION PLATFORM

COORDINATOR REGISTRATION >

COORDINATOR LOGIN >

PARTNER LOGIN >

## WELCOME

...to the submission platform of the second call for transnational research projects within ERA-MarineBiotech (ERA-MBT). Applications for funding within this call can only be submitted through this platform.

If you want to register as a coordinator for a transnational marine biotechnology research project, please read the CALL TEXT and the GUIDELINES FOR APPLICANTS thoroughly. It will ascertain that your planned project fits to the aim of this call. Please, note that some topics may be non-fundable by some funding organisations. Please take a special look on the national regulations in the CALL TEXT (ANNEX II). You can download the CALL TEXT and GUIDELINES FOR APPLICANTS from this page in the left corner below!

Non-coordinating partners of a project will be invited by the respective coordinator to enter their profile data and get access to the automatically generated project fact sheet. For the invitation by the coordinator, the platform creates a password which is sent automatically by email to the partner and which allows access.

Funders get access to the platform by electronic invitation from the call office to do the eligibility check of proposals received from their county.

If you have questions or any technical problems with your login or the platform, please don't hesitate to contact us.

# ERA-MBT partnering platform



<https://www.submission-marinebiotech.eu/partner-search>

ERA-MBT 2ND CALL  
BIODISCOVERY

## CONTACT

Dr. Marta Norton (Joint Call  
Secretariat)

+351-213911565

erambt2015@fct.pt

Dr. Jens Schiffers (Technical support /  
electronic submission system)

+49 2461 61-3972

j.schiffers@fz-juelich.de

## PARTNERING PLATFORM

POST AN OFFER/REQUEST >

LIST OF OFFERS/REQUESTS >

## CALL DOCUMENTS

Call text

## PARTNERING PLATFORM

This partnering tool helps you to find cooperation possibilities within the ERA-MBT calls. It can be used in the following ways:

- Post a Partner Offer/Request

Please post an entry in the partnering tool, if you are looking for collaboration opportunities in project consortia and would like to offer your expertise. You are also welcome to make a post, if you already have a project idea and are looking for further partners that would like to join you/your consortium. Next to providing your contact details, you should give a brief description of your organization. It is important that you provide some key words describing your field of research/innovation and that you specify your interest and the experience, expertise and know-how you/your organization has to offer in relation to one of the listed call (sub)topics of ERA-MBT. Please note: The first call has only one topic!

- Search List of Partner Offers/Requests posted by others

The database can be searched by call topics, keywords and all the other information provided by its users.

Please note:

There will be a plausibility check by the ERA-MBT Joint Call Secretariat for each of your entries. If the information given passes this plausibility check, your request(s) will be published on the page "List of Partner Offers/Requests". Following the publication, all information provided by you will be publicly available.

# Bedankt



REPUBLIC OF SLOVENIA  
MINISTRY OF EDUCATION,  
SCIENCE AND SPORT



agentschap voor Innovatie door Wetenschap en Technologie



The Swedish Research Council Formas  
*Committed to excellence in research for sustainable development*

