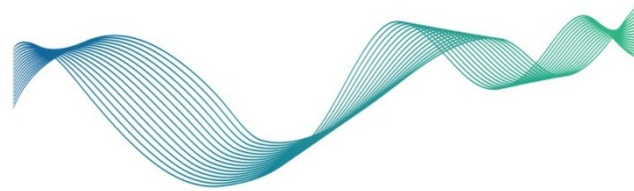


MarineBiotech



MarineBiotech Registers (IMIS) and Infopages (WIKI)

Fien De Raedemaecker

Flanders Marine Institute (VLIZ)

WP5 Leader: Communication and Information Management

Workshop 2
Hamburg
Oktober 2012



CSA (Coordinating) in Marine Biotechnology. MarineBiotech is funded under the European Commission's Seventh Framework Programme.
Contract number 289311. October 2011 - March 2013.

Outline

- ❖ VLIZ: mission and services
- ❖ VLIZ Contribution to CSA MarineBiotech: Development of a long term information system
- ❖ Contributions of different stakeholders
- ❖ The way forward...



Flanders Marine Institute (VLIZ)

VLIZ is a scientific institution supporting coastal and marine scientific research, but does not conduct scientific research.

- Non-profit organisation (Board of Directors, General Assembly, **Scientific Committee**)
- Established in 1999
- Supported by the **Flemish government** (95% of total subsidies) and **province of West-Flanders** (5% of total subsidies)

InnovOcean site: 220 m of marine research/supporting activities



Flanders Marine Institute (VLIZ)

VLIZ Strategic Objectives

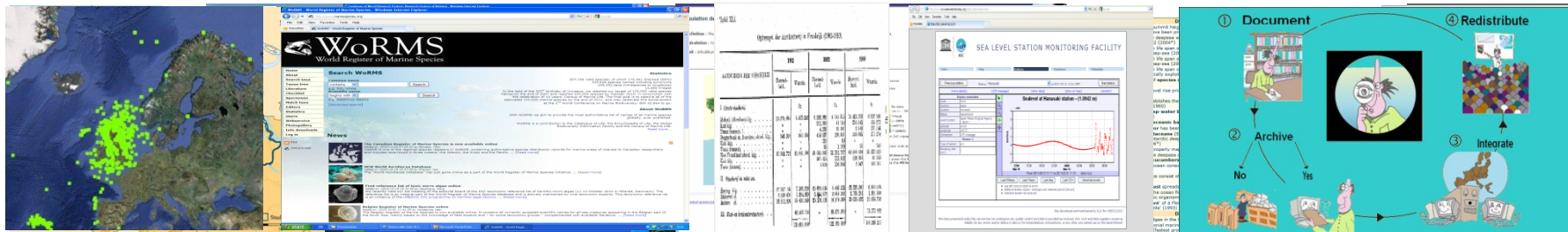
- Promoting Flemish marine scientific research and related coastal research and education.
- Promoting the international impact of marine scientific research as well as international marine education.
- Acting as a catalyst and an international point of contact in the field of marine sciences.
- Promoting the visibility of marine research to the public at large by means of popularisation and sensitisation.
- Providing scientific information on the sea, coast and tidal systems to policy makers, so that they can use it to develop their policy with regard to marine affairs.
- Hands free to support/network, since not doing research.



Flanders Marine Institute (VLIZ)

VLIZ provides services

- Logistic support (infrastructure on land & at sea)
- Marine library
- Information, communication & education desk
- Figures for policy making
- Flanders Marine Data and Information Centre (FMDC)

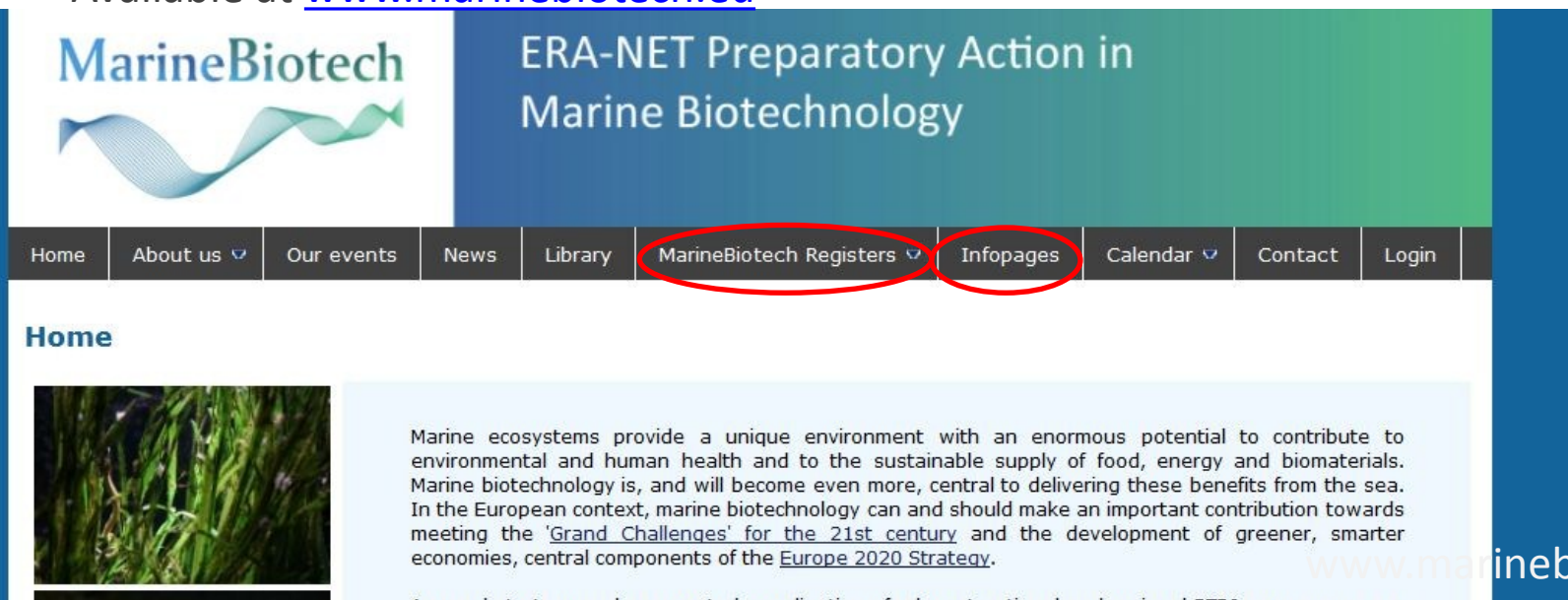


VLIZ contribution to CSA MarineBiotech

Development of a long-term information management system

- MarineBiotech Registers
(Information database, hosted at VLIZ, based on **IMIS**)
- MarineBiotech Infopages
(Online software, freely accessible, created within coastal and marine **WIKI**)

=> Available at www.marinebiotech.eu


A screenshot of the MarineBiotech website. The header features the MarineBiotech logo on the left and the text "ERA-NET Preparatory Action in Marine Biotechnology" on the right. Below the header is a dark navigation bar with several menu items: Home, About us, Our events, News, Library, MarineBiotech Registers, Infopages, Calendar, Contact, and Login. The "MarineBiotech Registers" and "Infopages" items are circled in red. Below the navigation bar, the main content area starts with a "Home" heading, followed by a small image of green seaweed and a text block describing the importance of marine ecosystems and biotechnology. The website URL "www.marinebiotech.eu" is visible in the bottom right corner.

MarineBiotech

ERA-NET Preparatory Action in
Marine Biotechnology

Home About us Our events News Library **MarineBiotech Registers** **Infopages** Calendar Contact Login

Home

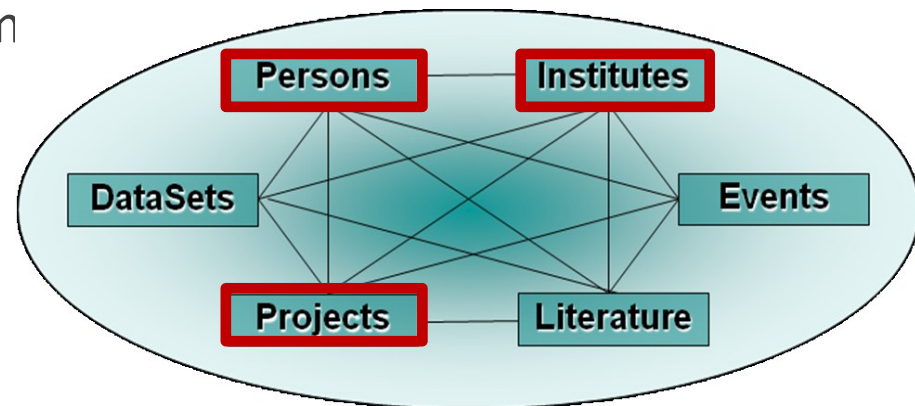


Marine ecosystems provide a unique environment with an enormous potential to contribute to environmental and human health and to the sustainable supply of food, energy and biomaterials. Marine biotechnology is, and will become even more, central to delivering these benefits from the sea. In the European context, marine biotechnology can and should make an important contribution towards meeting the 'Grand Challenges' for the 21st century and the development of greener, smarter economies, central components of the [Europe 2020 Strategy](#).

www.marinebiotech.eu

MarineBiotech Registers (IMIS)

- Adaptation of existing **Integrated Marine Information System (IMIS)**, hosted at the VLIZ data centre
- Modular Information system



- Architecture developed to the specific needs of the project: emphasis on Persons – Institutes – Projects
- Scientific community + Networks + Funding agencies + Commercial companies + Education

MarineBiotech Registers

General information

This information database offers an overview of marine biotechnology stakeholders and projects in Europe.

These registers are being developed within the current CSA MarineBiotech project and will be constantly updated and expanded during the subsequent ERA-NET in Marine Biotechnology.

On the longer term, these registers will facilitate the consultation of publically accessible resources regarding Marine Biotechnology in Europe.

[A list of registers](#) guides you through the available and accessible [Persons](#), [Institutes](#) and [Projects](#) related to marine biotechnology. You can request a full list of a specific register or make a selection using a simple or advanced search interface.

[A list of institutes](#) provides an easy overview of the different institutes (Scientific, Education, Funding agency, Network, Commercial) involved in Marine Biotechnology.

Add Contact Information

If you are associated with a European company or institute and active in the field of marine biotechnology you can add your contact details to the information database. This will increase your visibility in the European community of marine biotechnology and will allow authorisation for editing the Portal on Marine Biotechnology (Infopages) within the Coastal and Marine Wiki.


Please download and fill out the spreadsheet below and send it back to info@marinebiotech.eu

To submit **person** and/or **institute** details: [Download file](#)

To submit detailed information on a European MarineBiotech **project**: [Download file](#)

List of Registers

Project Register



ERA-NET Preparato
Marine Biotechnol

Home About us Our events News Library MarineBiotech Registers

- IMIS: Integrated Marine Information System -

Persons | Institutes | **Projects**

18 records found with search conditions : [No parameters entered]

order by title | date

show split up list

- **ARIMNET**: Coordination of Agricultural Research in the Mediterranean, [more](#)
- **BiodiversA 2**: Cooperation and shared strategies for biodiversity research program
- **2008 BiodiversA**: An ERA-NET in Biodiversity Research, [more](#)
- **2011 CSA in Marine Biotechnology**, [more](#)
- **2012 ERA-CAPS**: ERA-NET for Coordinating Action in Plant Sciences, [more](#)
- **2006 ERA-IB**: ERA-Net for Industrial Biotechnology, [more](#)
- **2010 E-Rare 2**: ERA-Net for Research Programmes on Rare Diseases, [more](#)
- **2009 EuroNanoMed**: EUROpean network of trans-national collaborative RTD projects
- **2004 European Research Area Plant Genomics**, [more](#)
- **2010 HIVERA**: Harmonizing Integrating Vitalizing European Research on AIDS/HIV, [more](#)
- **2013 KILLSPELL**: Integrated Biotechnological Approaches for Combating Marine Oil Spills, [more](#)
- **2009 MAGICPAH**: Molecular Approaches and MetaGenomic Investigations for optimizing the use of marine resources, [more](#)
- **2009 MAMBA**: Marine Metagenomics for New Biotechnological Applications, [more](#)
- **2004 PathoGenoMics**: Trans-European cooperation and coordination of genome sequencing of microorganisms, [more](#)
- **Plant-KBBE**: Transnational PLant Alliance for Novel Technologies - towards implementing the Plant-KBBE ERA-NET, [more](#)
- **2010 SEAS-ERA**: Towards Integrated Marine Research Strategy and Programmes, [more](#)
- **2011 TRANSCAN**: ERA-NET on translational cancer research in Europe, [more](#)
- **2011 ULIXES**: Unravelling and exploiting Mediterranean Sea microbial diversity and e

CSA (Coordinating) in Marine Biotechnology.
Framework Programme. Contract number 281904

Website developed and maintained by VLIZ

Home About us Our events News Library MarineBiotech Registers Infopages Calendar Contact Login

- IMIS: Integrated Marine Information System -

Persons | Institutes | Projects

report an error in this record
view external version

CSA in Marine Biotechnology

Special collections:

- CSA MarineBiotech

More: Institutes | URL

Period: October 2011 till March 2013
Status: In Progress
Thesaurus term: Biotechnology

Institutes (11) Top | URL

- **VLIZ**: Vlaams Instituut voor de Zee, [more](#)
 - De Raedemaecker, Fien
 - Mees, Jan
 - Rappé, Karen
- **EMB**: European Science Foundation; European Marine Board, [more](#)
 - Catewaert, Jan-Bart
 - McDonough, Niall
- **DTU**: Technical University of Denmark, [more](#)
 - Barresen, Torger
 - Jarlbæk, Henrik
- **SBR**: Centre National de la Recherche Scientifique; Station Biologique de Roscoff, [more](#)
 - Boyen, Catherine
- **IFREMER**: Institut Français de Recherche pour l'Exploitation de la Mer, [more](#)
 - Penez, Jacqueline
 - Durand, Patrick
- **Norgenta**: **Norwegian North German Life Science Agency**, [more](#)
 - Frøhm, Thomas
 - Schneemann, Inke
- **CNR**: Italian National Research Council, [more](#)
 - Maczole, Salvatore
 - Denaro, Renata
- **RCN**: The Research Council of Norway, [more](#)
 - Bergseth, Steinar, co-ordinator
 - Shadidi, Katrine Rese
- **FCT**: Ministério da Ciência e da Tecnologia; Fundação para a Ciência e a Tecnologia, [more](#)
 - Leandro, Cristiana
 - Resende, Catarina
- **TÜBITAK**: Scientific and Technological Research Council of Turkey, [more](#)
 - Adalı Oner, Cinar
 - Begum, Sargin
- **BioBridge**, [more](#)
 - Lloyd-Evans, Meredith, manager

Abstract:

Marine biotechnology has the potential to provide a major contribution towards addressing some of the most pressing societal challenges including environmental degradation, human health and delivering sustainable supplies of food and energy. The main goal of the CSA will be to prepare the foundation for a potential ERA-NET in the area of Marine Biotechnology which will require: a) Gaining better understanding of the Marine Biotechnology landscape in Europe and beyond. To this end the consortium envisages carrying out an analysis of the current landscape (research effort, infrastructures, stakeholders, strategies and programmes, gaps and barriers to cooperation). b) Mobilisation of key stakeholders: extending the partnership of funding agencies and European Stakeholders. To this end the consortium envisages pro-active engagement with relevant and potentially interested funding agencies and stakeholders through development of appropriate fora, the organisation of information sessions, workshops and other project activities. c) Sketching the contours of future cooperation between funding agencies in the area of Marine Biotechnology. To this end the consortium envisages workshops involving the extended network of funding agencies and representative governmental organisations to set the stage for the set-up of appropriate cooperation tools to develop joint programmes and pool resources for collaborative research on a European scale. d) Managing information relevant to marine biotechnology research, technology development and innovation, and making this available via a dedicated web-site (including Wiki pages), newsletters, reports and briefing documents.

URL: www.marinebiotech.eu/, project home page

Top | Institutes

www.marinebiotech.eu
Top | Institutes | URL

Link to: Persons Register

List of Registers

Persons Register

Institute Register

Home About us ▾ Our events News Library MarineBiotech Registers ▾

- IMIS: Integrated Marine Information System -

Persons | Institutes | Projects

report an error in this record

Dr Schneemann, Imke

Institute:

Norgenta: Norgenta North German Life Science Agency, more

Director contact of institute:
 Phone: ☎ +49-(0)431-24 84 121
 Fax: +49-(0)431-24 84 111
 Email: imke.schneemann@norgenta.de

Project:

- CSA in Marine Biotechnology, more

Publications (4) (4 peer reviewed) split up

- **Schneemann, I.; Ohlendorf, B.; Zinecker, H.; Nagel, K.; Wiese, J.; Imhoff, J.F.** (2010). *Nocardiosis* strain isolated from the marine sponge *Halichondria panicea* J. Nat. Prod. 73 more
- **Schneemann, I.; Kajahn, I.; Ohlendorf, B.; Zinecker, H.; Erhard, A.; Nagel, K.; Wiese, J.** (2010). Polyketide from a *Streptomyces* strain isolated from the marine sponge *Halichondria panicea* hdl.handle.net/10.1021/np100135b, more
- **Schneemann, I.; Nagel, K.; Kajahn, I.; Labes, A.; Wiese, J.; Imhoff, J.F.** (2010). Co-cultivation of the sponge *Halichondria panicea* Appl. Environ. Microbiol. 76(11): 3700-3705, more
- **Schneemann, I.; Wiese, J.; Kunz, A.L.; Imhoff, J.F.** (2011). Genetic approach for the isolation of *Halichondria panicea* Drugs 9(5): 772-789. hdl.handle.net/10.3390/md9050772, more

Home About us ▾ Our events News Library MarineBiotech Registers ▾ Infopages Calendar ▾ Contact Login

- IMIS: Integrated Marine Information System -

Persons | Institutes | Projects

report an error in this record

Norgenta North German Life Science Agency

www.life-science-nord.net/Isn-international/norgenta-gmbh/

view external version

Persons | Projects

Acronym: Norgenta
 German name: Norgenta Norddeutsche Life Science Agentur
 Thesaurus terms (2) : Biotechnology; Pharmacy

Contact:

Address: Fraunhoferstraße 2-4
 24118 Kiel
 Germany

Phone: ☎ +49-(0)40-471 69 400
 Fax: +49-(0)40-471 69 444
 Email: info@norgenta.de

Persons (2) Top | Projects

- Frahm, Thomas
- Schneemann, Imke

Abstract:

Norgenta North German Life Science Agency is the project and service company of Hamburg and Schleswig-Holstein that supports life science activities in North Germany. Under the name of Life Science Nord, the agency combines and networks life science activities to create an internationally competitive cluster. As the central point of contact, it also can help you answer all your questions on biotechnology, medical technology, and pharmacy.

Projects (2) Top | Persons

- **CSA in Marine Biotechnology, more**
- SUBMARINER - Sustainable Uses of Baltic Marine Resources

Top | Persons | Projects

Link to: Project Register

MarineBiotech Registers (IMIS)

Additional options using the IMIS interface on the CSA MarineBiotech website:

- Report an error in this record

- IMIS: Integrated Marine Information System -

Persons | Institutes | Projects

report an error in this record

- Online registration form for those interested in being part of the European platform
- List of different type of Institutes

MarineBiotech Registers (IMIS)

So far...

Developmental stage

Building the architecture



Input stage

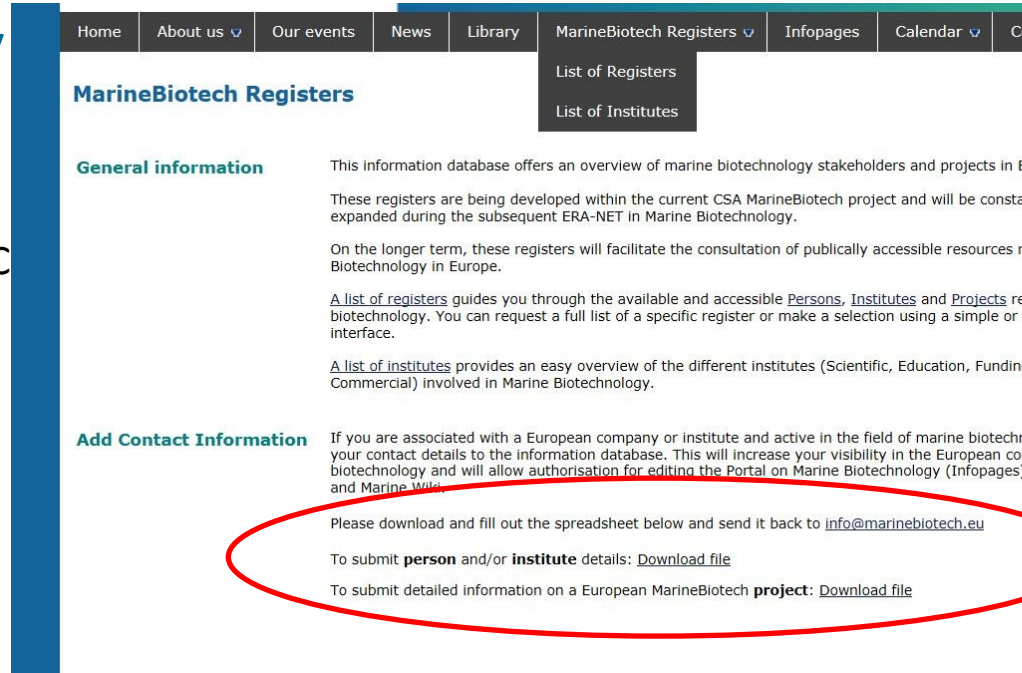
Preliminary data entry of CSA consortium



Data entry of stakeholders and funding agencies



The way




2011

2012

2013

2014

2015

2016

2017



ERA-NET



MarineBiotech Infopages (WIKI)

The Wiki concept

- software that allows users to collaboratively create, edit, link, and organize the content of a website
- online, very accessible
- easy to edit, user friendly (Wiki is Hawaiian for 'quick, fast')
- control changes – edit rights
- fully searchable and linked (easily indexed by Google)



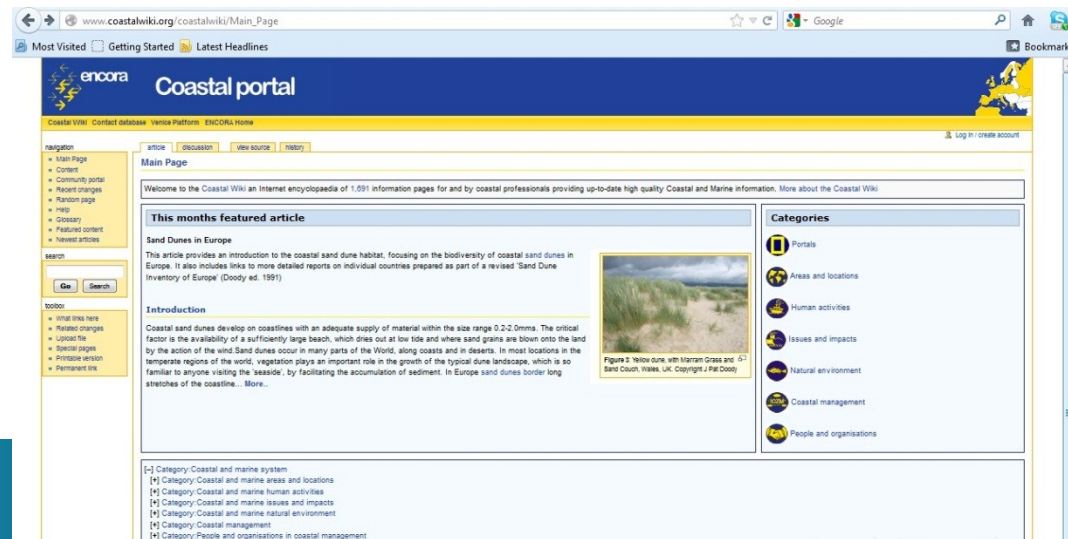
MarineBiotech Infopages (WIKI)

The Coastal and Marine Wiki

...an Internet encyclopaedia providing up-to-date high quality information for and by coastal and marine professionals...

http://www.coastalwiki.org/coastalwiki/Main_Page

- Developed within **European Network For Coastal Research, ENCORA (2006-2009)**
- 13 + 5 countries
- ++2200 members
- content focused



The screenshot shows the main page of the Coastal Wiki. The page title is "Coastal portal" and it features a navigation menu on the left with options like "Main Page", "Content", "Community portal", "Recent changes", "Random page", "Help", "Glossary", "Featured content", and "Newest articles". The main content area includes a "This month's featured article" titled "Sand Dunes in Europe" with an introduction and a photograph of a sand dune. A "Categories" sidebar on the right lists various topics such as "Portals", "Areas and locations", "Human activities", "Issues and impacts", "Natural environment", "Coastal management", and "People and organisations".



MarineBiotech Infopages (WIKI)

The Coastal and Marine Wiki: Objectives


- The issue *-taking better advantage of existing knowledge-*
- communicate scientific knowledge among fellow experts and to public at large (e.a. scientific publications)
- coastal and marine issues often refer to specific field situations and are published as grey literature
- Avoid that results published on project sites become inaccessible after the project has ended (e.a. FP5, FP6....)



MarineBiotech Infopages (WIKI)

The first portal within the Coastal and Marine Wiki:

- [Portal on SoA European Coastal Research \(ENCORA\)](#)
- Publication of European State of the Art for 10 Themes

 <p>01</p>	 <p>03</p>	 <p>05</p>	 <p>07</p>	 <p>09</p>
<p>Multifunctionality and valuation Valuation of competing functions, to optimise the societal use of coastal and marine resources → FEEM/CORILLA - encores@feem.it</p>	<p>Marine and coastal spatial planning Multiple-scale structuring of spatial coastal and marine planning and related decision-support systems for sustainable development → Thessaly University - hok@egean.gr</p>	<p>Long term coastal geo-morphological change Promoting the development, demonstration and dissemination of new and emerging models and methodologies for the prediction of long-term geo-morphological changes to coastal and estuarial systems, including the effects of climate change → University of Plymouth - juliettejackson@plymouth.ac.uk</p>	<p>Restoration and preservation of coastal biodiversity Testing and improving an ecological valuation protocol for the coastal and marine environment → Ghent University - steven.dograer@UGent.be</p>	<p>Assessment of field observation techniques New and emerging tools and practices for coastal and marine observation, with focus on remote sensing and remotely controlled measuring devices → GKSS - clvia.haese@gkss.de</p>
 <p>02</p>	 <p>04</p>	 <p>06</p>	 <p>08</p>	 <p>10</p>
<p>ICZM Participation and Implementation Testing and improving methods to evaluate progress in the implementation of ICZM, including eGovernance → EUCC - e.piclever@eucc.net</p>	<p>Pollution, prevention, detection and mitigation Development and application of emerging methodologies for preventing, detecting and mitigating pollution and for identification of areas at risk → CETMEF - philippe.sergent@equipement.gouv.fr</p>	<p>Effect of Development and Use on Eco-morphology and Coastal Habitats Impact-assessment tools and environmental techniques for recovery of coastal habitats → DHI Water and Environment - lae@dhigroup.com</p>	<p>Sustainable coastal engineering techniques Cataloguing innovative coastal engineering techniques to solve practical coastal protection issues → TUDelft - t.c.m.v.d.ijlstra@tudelft.nl</p>	<p>Capacity building, training and education in ICZM Comparative assessment of ICZM training and education programmes → H. J. van der Wal - h.j.van.der.wal@icm.nl</p>

MarineBiotech Infopages (WIKI)

Other project-specific portals are supported by the Coastal and Marine Wiki:

- [Portal on Marine Biodiversity \(MarBEF NoE\)](#)
- [Portal on Science - Policy Integration for Coastal System Assessment \(SPICOSA\)](#)
- [Portal on Marine Ecotoxicology](#)
- [Portal on Innovative technologies for safer European coasts in a changing climate \(THESEUS\)](#)
- [Portal on People for Ecosystem Based Governance in Assessing Sustainable Development of Ocean and Coast \(PEGASO\)](#)

Impact:

- 10 million hits on Coastal and Marine Wiki in 2011
- 1 541 information pages in 2011
- 330 000 unique visitors in 2011



MarineBiotech Infopages (WIKI)

The **portal of Marine Biotechnology**

- will be part of the Coastal and Marine Wiki
- Increase the visibility of the CSA MarineBiotech
- Increase continuity after the CSA MarineBiotech is finished
- Provide a source of information visible through google searches
- Increase the effort for dynamic documents
- Interface on www.marinebiotech.eu/wiki



Portal:Marine Biotechnology

Marine Biotechnology

Marine biotechnology explores and uses marine bioresources as the target for or origin of technological applications, which are used for the production of products and services.

In the context of a global economic downturn, we are now facing complex and difficult challenges such as the sustainable supply of food and energy, climate change and environmental degradation, human health and ageing populations. Yet concurrently, the seas represent one of the most abundant sources of food and energy production on the planet, as well as containing the potential for countless innovations in drug production, industrial process development, ecosystem management and other related fields. Marine Biotechnology can make an increasingly important contribution towards meeting these societal challenges and supporting economic recovery and growth, by delivering new knowledge, products and services.



Examples of products and services developed by technological applications using marine bioresources. [1]

Estimates predict an annual growth in the sector of up to 10-12% in the coming years, revealing the huge potential and high expectations for further development of the Marine Biotechnology sector at a global scale. [2]

Show new selections

Research Area Priorities

Developments in life science technologies are one of the key drivers of Marine Biotechnology research. Previous advances in molecular biology, genomics and -omics have contributed to Marine Biotechnology developments.

There are further challenges in developing and optimising an appropriate biotechnology toolbox for innovations using marine bioresources. These include tailored -omics techniques, in situ measurement, sampling and monitoring, improvements in the cultivation of microorganisms and the use of marine model organisms. An improved and well-adapted toolbox is expected to have a large impact on future progress in marine biotechnology.

The target research and innovation areas that can address key societal challenges are listed below:



Food: Development of food products and ingredients of marine origin (algae, invertebrates, fish) with optimal nutritional properties for human health and with improved food security and safety prospects.



Energy: Development and demonstration of viable renewable energy products and processes, notably through the use of marine algae including seaweeds and microalgae.



Human Health: Discovery of new molecules and development of novel medicines, nutraceuticals and personal care products.



Industrial Products and Processes: Development of marine-derived molecules that can be used to establish green and new processes, including enzymes, biopolymers and biomaterials, and that can replace petrosynthetic products.



Environmental Health: Development of biotechnological approaches, mechanisms and applications to address key environmental issues including bioremediation, enhancement of waste water and integrated aquaculture systems that minimize the environmental impact of fish and shellfish farming.

What are Portals? | List of portals

Categories: Marine Biotechnology | Portals under construction

Content

What is Marine Biotechnology?

Key Marine Biotechnology application areas

Examples of Marine Biotechnology successes

Marine Biotechnology key tools and technologies

Strategies, Policies and Programmes

Glossary

Links to more general information

Persons



This portal is developed in the FP7 Coordination and Support Action on Marine Biotechnology, CSA MARINEBIOTECH (October 2011-March 2013).

This portal is available for

- a **broad public**, to show the growing importance of the application of biological marine knowledge and cutting-edge techniques to develop products and other benefits for humans;
- researchers**, to show outlined priorities for Marine Biotechnology contributions to key societal challenges and examples of case studies showing progress in these fields;
- the **industry** with interests in marine biotechnology and its outputs, to provide the context in which marine biotechnology innovation might take place;
- policy makers**, to provide a discussion and clarification of national strategy documents on marine biotechnology;
- national funding agencies** in Europe, to provide important information and insight in scoring and preparing for a future ERA-NET in marine biotechnology;
- other technology platforms and coordination activities** dedicated to marine biotechnology, to highlight opportunities for interlinkage and collaboration.

Content

edit

What is Marine Biotechnology?

Key Marine Biotechnology application areas

[hide]

- Marine Biotechnology securing Food supply
- Marine Biotechnology securing alternative sources of renewable Energy
- Marine Biotechnology securing Human Health
- Marine Biotechnology securing Industrial Products and Processes
- Marine Biotechnology securing Environmental Health

Examples of Marine Biotechnology successes

[hide]

- Application of Ziconotide as a painkiller

Marine Biotechnology key tools and technologies

[hide]

- 'Omics' driven technologies
- Metabolic engineering and systems biology
- Model species for marine biotechnology
- High throughput tools for proteins, enzymes and biopolymers

Strategies, Policies and Programmes

[show]

Glossary

Links to more general information

Application of Ziconotide as a painkiller

Revision history
View logs for this page

(Latest | Earliest) View (previous 50) (next 50) (20 | 50 | 100 | 250 | 500)

Diff selection: mark the radio boxes of the versions to compare and hit enter or the button at the bottom.
Legend: (cur) = difference with current version, (last) = difference with preceding version, M = minor edit.

Compare selected versions

- (cur) (last) 09:34, 7 October 2012 **Fiend** (Talk | contribs) (2,609 bytes) (undo)
- (cur) (last) 09:31, 7 October 2012 **Fiend** (Talk | contribs) (2,601 bytes) (undo)
- (cur) (last) 09:20, 7 October 2012 **Fiend** (Talk | contribs) (2,605 bytes) (undo)
- (cur) (last) 09:14, 7 October 2012 **Fiend** (Talk | contribs) (2,950 bytes) (undo)
- (cur) (last) 10:28, 5 October 2012 **Fiend** (Talk | contribs) (2,889 bytes) (undo)
- (cur) (last) 10:26, 5 October 2012 **Fiend** (Talk | contribs) (2,880 bytes) (undo)
- (cur) (last) 10:22, 5 October 2012 **Fiend** (Talk | contribs) (2,866 bytes) (New page: Ziconotide can be extracted from the poison of cone snakes (*Conus spp.*), and belongs to the chemical family of the conopeptides <ref name="marine">http://www.marinebiotech.org/ziconotide.ht...)

Compare selected versions

(Latest | Earliest) View (previous 50) (next 50) (20 | 50 | 100 | 250 | 500)

Application of Ziconotide as a painkiller

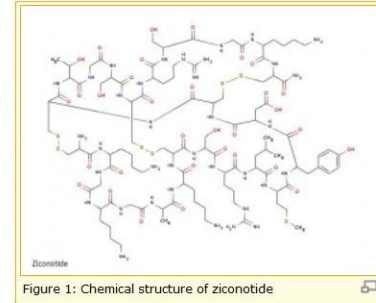
Ziconotide can be extracted from the poison of cone snakes (*Conus spp.*), and belongs to the chemical family of the conopeptides, a group which has received high attention for its potential use as painkillers. The Irish Elan cooperation brought a synthetically version of the drug on the European markets in 2005 under the brand name Prialt® [1]. The drug is intended for use by patients suffering from intense and prolonged pain caused by e.g. cancer, aids or neuropathic pain [2], who get insufficient pain relief from classical painkillers.

Contents [hide]

- 1 Mode of Action
- 2 Origin & Development
- 3 references

Mode of Action

Ziconotide works by blocking ion channels in neurons, effectively stopping the transmission of pain signals. More specifically, ziconotide acts in a specific region of the spinal cords where nociceptors connect to the neurons. Contrary to classical (strong) painkillers (such as e.g. morphine) this has the advantage of keeping the rest of the nervous system fully functional, preventing side effects such as general sedation and depressed respiration. Additionally, the ziconotide is reported to be a fifty to several thousand times more powerful painkiller than morphine [1]. However, for good results, ziconotide needs to be directly injected into the spinal cord, demanding the use of specialized systems and modes of administration. This reduces the use of ziconotide the most serious cases.



- IMIS: Integrated Marine Information System -

Persons | Institutes | Projects

report an error in this record

mevr. De Raedemaecker, Fien [photo]

Institute:

VLIIZ: Vlaams Instituut voor de Zee, more

Function: Scientific assistant, General operation and coordination

Direct contact at institute:

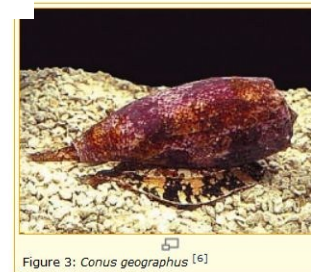
Phone: +32-(0)59-34 01 82

Fax: +32-(0)59-34 21 31

Email: fien.deraedemaecker@vliz.be

enus *Conus*. The substance and *Conus geographus* [4], but given its relatively small size, it can easily be

- Link to dictionary
- Add references
- Interlink
- History
- User profiles



references

1. ↑ 1.0 1.1 Kijjoo A and P Sawangwong. 2004. Drugs and cosmetics from the sea (review paper). *Mar. Drugs* 2004:73-82.
2. ↑ http://www.iasp-pain.org/AM/Template.cfm?Section=Pain_Definitions
3. ↑ <http://www.marinespecies.org/aphia.php?p=taxdetails&id=215429> *Conus magnus*
4. ↑ <http://www.marinespecies.org/aphia.php?p=taxdetails&id=215499> *Conus geographus*
5. ↑ http://bioweb.uwlax.edu/bio203/2011/haas_kayl/Dr%20Cm.htm
6. ↑ <http://www.nigms.nih.gov/news/findings/sept02/snails.html>



MarineBiotech Infopages (WIKI)

Major difference between Wikipedia and Coastal and Marine Wiki: **Quality Control**

- anonymous contributions are precluded: editors part of expert contact database
- everyone registered in IMIS & applied for a WIKI account can update information
- Person editing information will become public
 - ⇒ Creates quality control and visibility
 - ⇒ Possible to return to previous version of portal page
- content checked by editorial team



MarineBiotech Infopages (WIKI)

The Way Forward...

- A separate dynamic community information portal on Marine Biotech, within Coastal and Marine Wiki, with project-specific information but linked *in depth* with existing information
 - » Project website will keep own identity
 - » Project Information will not be lost in time
 - » Prevent duplication of effort
- Content supplied by different stakeholders
- Editorial team for quality control



Summary

- A **long-term information management system** for Marine Biotechnology has been developed, containing a contact database and a content/knowledge management system
- **Project-specific information is integrated** with existing and more general MarineBiotech information
- Can respond effectively to **dynamic nature** of documents and contact information
- **Everyone can support** with keeping system up-to-date, with sufficient quality control



Thank you!

