



Assessing Territorial Embedding of Marine Biotechnology Research Institutions

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IFRIS











EMBRIC project

- The European Marine Biological Research Infrastructure Cluster (EMBRIC)
- Designed to accelerate the pace of scientific discovery and innovation from marine Bio-Resources.
- EMBRIC aims to promote new applications derived from marine organisms in fields such as drug discovery, novel foods and food ingredients, aquaculture selective breeding, bioremediation, cosmetics and bioenergy.
- The EMBRIC consortium comprises **27 partners** of **4 different types** (academia, research institutes, non-for-profit organizations and industry).
- EMBRIC partners are distributed in 7 EU member states and 2 associated member states.



Node distribution of RIs involved in EMBRIC Source: EMBRIC Vision Document, 2016

www.embric.eu



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EMBRIC TERRITORIAL EMBEDDING REPORTS

- Creating a profile of each member of EMBRIC is useful to:
 - Show that the Marine Bio Organisation (public/private) contributes to their region
 - Show how they contribute with hard evidence
- Do this in an organised, comparable and transparent way that is convincing





















- over 100 years presence
- joint UPMC-CNRS centre

Key figures

- 15 Research professors
- 35 Researchers
- 103 Research support staff
- 11 Post-students
- 53 PhD students
- 4 Research units









An international scientific reach – scientific papers

- 608 publications from the WoS (2010-2014)
- Top 100 co-authoring institutions displayed
- Clustering based on coauthorship

SBR	1%	
Brittany	13%	
Europe, outside Brittany	65 %	
Non Europe	21 %	

% of nodes according to geographical location



Powered by CorText



An economic support focussed on regional partnerships – **contracts with firms**

From 2010:

- 57 contracts / partners
- Clustering based on geographical proximity
- Processed with CorText

SBR	1,75 %	
Brittany	80,7 %	
Europe, outside Brittany	17,54 %	
Non Europe	0 %	

% of nodes according to geographical location





EUS-EU





Summing up the results

% of nodes according to geographical location

Geographical origin	Publications (for the top 100 nodes)	Scientific partnerships in projects	Patents	Contracts with firms
SBR	1%	0,24 %	4,17 %	1,75 %
Brittany	13%	9,44 %	33,33 %	80,7 %
Europe, outside Brittany	65 %	84,75 %	37,5 %	17,54 %
Non Europe	21 %	5,57 %	25 %	0 %





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Global research Spread co- Local firm collaborations patenting contracts





- 1. Science production is a global process
- 2. Bilateral private sector contracts on technology development is more anchored in regional environment
- 3. Economic support is a local process



Complementarity of layers of support

The ability of the facility to play its role in knowledge production and have an impact on economic development lies in a combination of public supports

- research project based funding which is overwhelmingly funded by EC programmes
- on staffing which depends mostly on national institutions: UPMC and CNRS in this case
- on new investments, where the regional authorities have been playing an ever growing role in the last 20 years

Thank you

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