



Le 20/06/2024

## Analysis and Bioinformatics for Marine Science

### Description



#### Type of entity

Platform

#### Main activity

ABiMS offers analysis and developments to research teams within the framework of scientific collaborations formalised as projects. Its service offer is divided in five activities: access to hardware and software environments (HPC cluster, Galaxy, Cloud)  
e-infrastructure: High Performance Computer, Galaxy, JBrowse/Apollo, RStudio, databanks, storage and bioinformatics software  
Bioinformatics analysis: '-omics' data analysis (RNAseq, assembly, metagenomics, metabarcoding, etc.)  
Software engineering: web appliance, software, database creation  
Training: RNASeq, phylogeny, Linux, R, Python  
Support: support request for the use of platform resources (software, data, etc.)  
ABiMS belongs to national infrastructures: the French Institute of Bioinformatics (IFB) and the EMBRC-France resource center.

#### Keywords

Bioinformatics, HPC, Storage, Analysis services, Software engineering, Database management

#### Labels

Biogenouest  
Recognised French National Research Infrastructure (IR)  
EMBRC-France  
EMBRC-ERIC  
Elixir  
ODATIS  
French Institute of Bioinformatics

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Website : <http://abims.sb-roscoff.fr>

Plug in labs Ouest : <https://www.pluginlabs-ouest.fr/fiche/abims-plateforme-de-bioinformatique>

## Related entities

[Databases](#)

[High Performance Computer constituted of 1800 CPU](#)

[Software](#)

## Location and contact

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[Send an e-mail](#)

Address	Place Georges Teissier
Address line 2	Station Biologique de Roscoff - CS 90075
Zip code/Postcode	29688
Town/city	ROSCOFF

## Services

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Concerned publics	Companies Research partners Other researchers
Terms of access	Research collaboration access Supervised access
Access url	<a href="http://abims.sb-roscoff.fr/account">http://abims.sb-roscoff.fr/account</a>
Description	Access to computing infrastructure providing computing server ranging from 32 GB to 2 T

## Bioinformatics analysis

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Concerned publics	Research partners
Terms of access	Research collaboration access
Access url	<a href="http://abims.sb-roscoff.fr/projects/request">http://abims.sb-roscoff.fr/projects/request</a>
Description	Analysis of data from several 'omics' projects covering a large diversity of marine living organisms (bacteria, archaea, from fungi to seaweeds, from protists to larger metazoan)

## E-infrastructure

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Concerned publics	Research partners
Terms of access	Research collaboration access
Access url	<a href="http://abims.sb-roscoff.fr/projects/request">http://abims.sb-roscoff.fr/projects/request</a>
Description	Access to databases are provided to different applications (CLI software, Galaxy workflow) in various formats (Blast, Bowtie, BWA, ?). Most of them are automatically downloaded and formatted.

## Training

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Concerned publics	Research partners
Terms of access	Research collaboration access
Access url	<a href="http://abims.sb-roscoff.fr/training">http://abims.sb-roscoff.fr/training</a>
Movable ?	Non

## Software engineering in Life Sciences and Oceanography

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Concerned publics	Research partners
Terms of access	Research collaboration access
Access url	<a href="http://abims.sb-roscoff.fr/projects/request">http://abims.sb-roscoff.fr/projects/request</a>
Movable ?	Non
Description	Software engineering as carried out by ABiMS aims to provide research teams and users with databases or tools that best suit their needs

## Description

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Certification,  
standardization, calibration

Category

- Software
- Digital
- Modelling and in situ data providers
- Scientific computing

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Scientific disciplines

- Bioinformatics
- Metrology
- Microbiology
- Marine Ecology
- Genomics / Genetics
- Marine biology

Strategic areas of action

- Marine energy and mining resources
- Environmental and coastal planning and development

Examples of work

Elixir (UE). EMODNet Biology Associated Data Partner. Idealg, Oceanomics.  
ANR projects: Cinnamon, Impekab, Hapar, ?

URL works

<http://abims.sb-roscoff.fr/projects>

## Owned/operated by

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<http://www.sb-roscoff.fr/en> **Roscoff Marine Station**

The Roscoff Marine Station is a research and teaching centre for marine biology and ecology. It depends on the CNRS and Sorbonne University.

<https://www.sorbonne-universite.fr/en/> **Sorbonne University**

Sorbonne University is a multidisciplinary, research-intensive and world-class academic institution. Firmly rooted in the heart of Paris, it is committed to the success of its students and devoted to meeting the scientific challenges of the 21st century.