

#### Establishing the ELIXIR microbiome community

Bérénice Batut, Eric Pelletier, Robert D. Finn, Katharina Heil

#### ▶ To cite this version:

Bérénice Batut, Eric Pelletier, Robert D. Finn, Katharina Heil. Establishing the ELIXIR microbiome community. ELIXIR All Hands 2023, Jun 2023, Dublin, Ireland. 10.7490/f1000research.1119511.1 . hal-04761840

#### HAL Id: hal-04761840 https://hal.science/hal-04761840v1

Submitted on 31 Oct 2024

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# Establishing the ELIXIR Microbiome Community

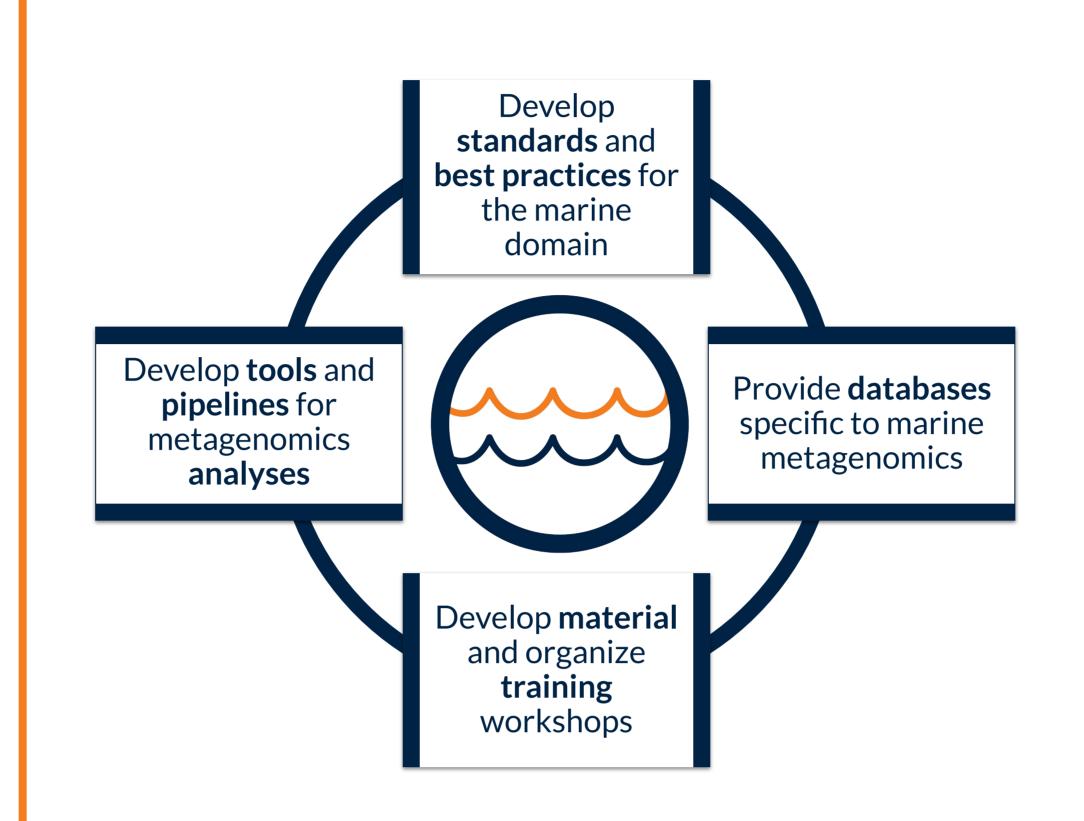


ELIXIR All Hands, 5-8 June 2023, Dublin, Ireland

#### Introduction

Microbiome research has grown substantially over the past decade in terms of the range of biomes sampled, technologies being applied, and the volume of data derived from the samples. In particular, experimental approaches such as shotgun metagenomics, metabarcoding, and metatranscriptomics have provided profound insights into the vast, hitherto vastly unknown, microbial biodiversity.

## **ELIXIR Marine Metagenomics Community**



The ELIXIR Marine Metagenomics Community was initiated amongst researchers focusing on marine microbiomes in 2015. It concentrated on **promoting** standards around microbiome-derived sequence-based analysis, understanding the gaps in methods and reference databases, and finding solutions to computational overheads of performing such analyses.

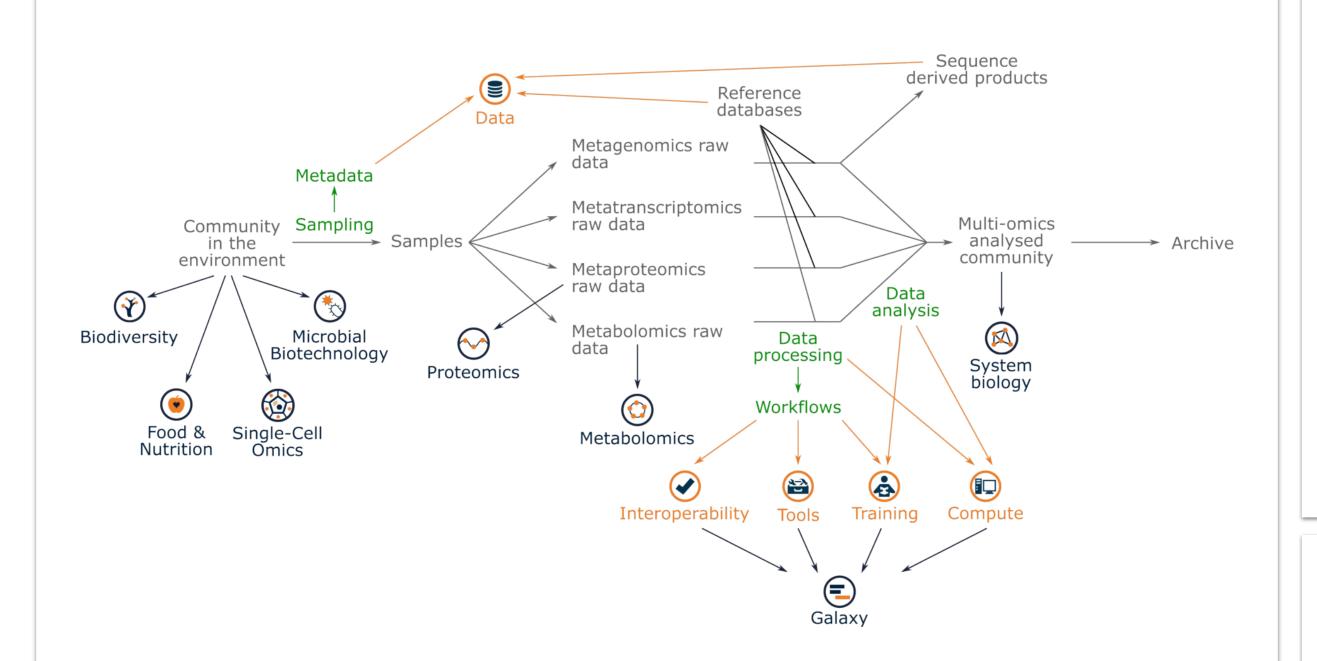
The methods used and the challenges faced are not confined to marine studies but are broadly applicable to all other biomes.

## Towards a more inclusive ELIXIR Microbiome Community

Expanding the Marine **Metagenomics Community** to a more inclusive ELIXIR Microbiome Community will encompass a broader range of biomes. Engaging with a larger number of researchers will improve the efficiency and sustainability of bioinformatics infrastructure for microbiome resources (standards, data, tools, workflows, training), which will enable a deeper understanding of the composition, function and taxonomy of the entire microbial community as well as the **definition** and adoption of dedicated FAIR standards and methods within the Community.

#### Fully integrated within ELIXIR

Along with the whole microbiome life cycle



#### New leadership



Bérénice Batut

**Eric Pelletier** 

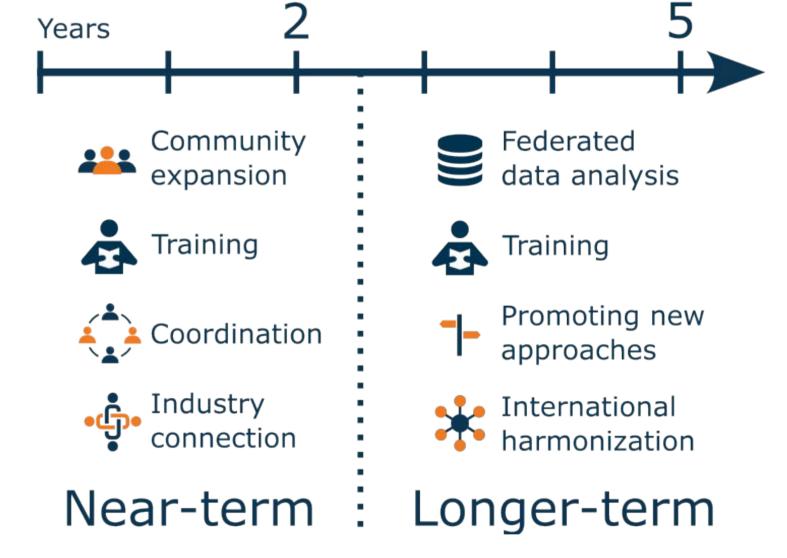


**Rob Finn** 



Katharina Heil

# New roadmap



## White paper

Open for ELIXIR wide review until August 11th

### Community meeting

**Dates**: Sept. 12th & 13th, 2023 **Location**: Barcelona & Online Together with the Biodiversity Community

#### Contact

Bérénice Batut -University of Freiburg, DE - berenice.batut@gmail.com Eric Pelletier - CEA, FR - eric.pelletier@genoscope.fr Rob Finn - EMBL-EBI, UK - rdf@ebi.ac.uk Katharina Heil - ELIXIR Hub - katharina.heil@elixir-europe.org





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