

Collaboration

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MetaPlantCode is supported by project partners
from 10 different European countries, showcasing a
collaborative framework designed to optimize plant
metabarcoding practices.

By tackling challenges like species complexity,
contamination, and DNA degradation, we refine
molecular plant monitoring through strategic
European case studies by using AI and mobilizing
non-digital existing knowledge.

Join the journey to enhance plant identification and
biodiversity surveys. By working together, we can
strengthen plant identification, improve ecosystem
surveys, and support informed conversation
decisions.



Network + Funders



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Harmonizing plant
metabarcoding pipelines
in Europe to support
monitoring activities in
the field of plants and
their functional organismic
networks



Project Goals

Promoting Standardized Sampling Strategies

- Conducting European case studies to optimize metabarcoding protocols in the field and lab.
- Testing and refining protocols for improved accuracy.

Improving Analysis and Identification

- Developing easy-to-use analysis pipelines for enhanced species identification.
- Mobilizing non-digital knowledge.
- Improving accuracy and precision in species-level identification through machine learning and data fusion.

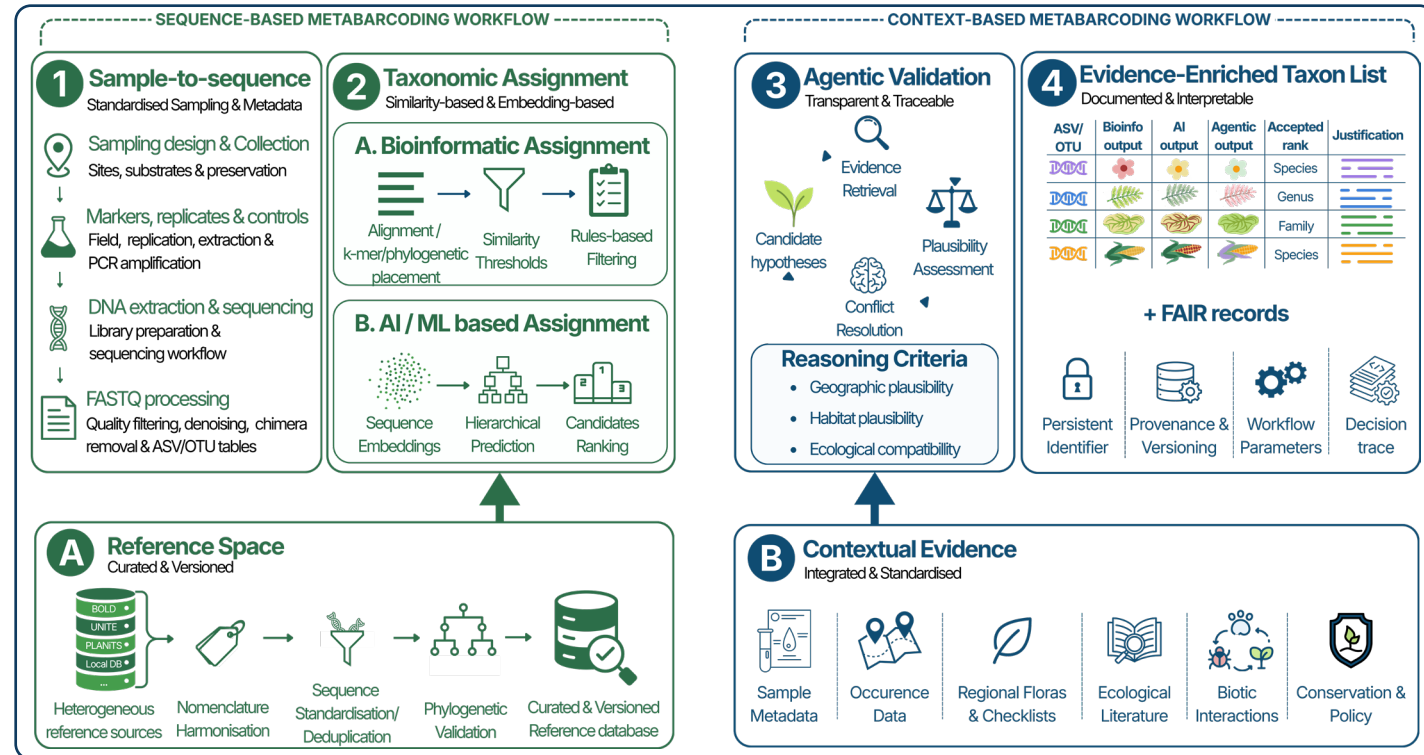
Ensuring Data Accessibility and Transparency

- Publishing data under FAIR standards for open access in GBIF and INSDC.
- Enhancing transparency and reproducibility in plant metabarcoding research.

Fostering Community Engagement and Collaboration

- Engaging stakeholders through communication and community involvement.
- Establishing plant metabarcoding as a collaborative and inclusive research field.

Innovative Approach



Addressing Challenges in Plant Metabarcoding

- Advancing methods to address challenges in identification within taxa with complex evolutionary histories and cryptic species.
- Developing effective solutions for analyzing DNA from different matrix materials, such as faeces and soil, and mitigating the effects of DNA degradation.

Data Integration and Enrichment

- Seamlessly combine biodiversity data with automated pipelines to close knowledge gaps and enhance understanding of biodiversity dynamics.

Promoting Broad Adoption and Routine Application

- Implementing training programs to equip researchers and practitioners with the skills and knowledge needed to apply plant metabarcoding effectively.
- Launching outreach efforts to raise awareness and promote the routine use of plant metabarcoding in biodiversity surveys and ecosystem research.

Literature Integration

- Enrich taxonomic literature and align botanical checklists with the Catalogue of Life for comprehensive species identification.