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Partner search

Date (21-06-20)

- (*) Indicate numbers of relevant topics for Green Deal call:

LC-GD-6-1-2020

- Quick description of the project

(describe the objectives, activities, partners requested and their skills)

- (*) Do you intend to apply as ? :

Coordinator: No

Participant: Yes

(*) **Either** Description of the expertise requested (up to 1000 characters) - *specify which points of the "expected impact" of the call you are targeting*

XXXXXXXXXX

+ key words :

Or Description of the expertise proposed (up to 1000 characters) - *specify which points of the "expected impact" of the call you are targeting*

General Competences description: Pleiade is an interdisciplinary research team dedicated to understanding the diversity and functions of organisms in ecosystems. A strong focus of the team is modeling the functional role of microbial communities composed of thousands of distinct species and strains, in natural and in biotechnological conditions. **We develop and apply mixed computational and biological methods to model metabolism**, decipher interactions within microbiomes or controlled communities of microorganisms, and design reduced synthetic consortia based on metagenomics data. Pleiade is a joint project-team of Inria, INRAE, and CNRS **composed of computer scientists, biologists, and mathematicians.**

More information here: <https://team.inria.fr/pleiade/>

Specific contribution to Area 6 : Farm to Fork

Microorganisms play an important role in food research both for their positive role in producing fermented foods and for their deleterious role in food degradation. The collective metabolism that emerges from the interaction of these microorganisms is crucial to decipher and control interactions within communities.

Phrases of the call in our scope:

- “Shifting to sustainable healthy diets, sourced from land, water and sea, and accessible to all EU citizens, including the most deprived and vulnerable groups.”
➔ The role of microbial communities, especially in fermented food can be significant. Our methods produce robust models of the metabolism for possibly large microbial communities, and help decipher the role of individual members as well as identify key species.



+key words : bioinformatics, systems biology, microbiome, functions.

Organisation information

Organisation and country: Inria – Institut national de recherche en informatique et automatique. France

Type of organisation:

☐ Enterprise ☐ SME ☐ Academic ☒ Research institute ☐ Public Body ☐ Other: Association

Former participation in FP European projects?

☒ Yes ☐ No

Web address: www.inria.fr

Description of the organisation:

Inria is the French national research institute for digital science and technology. World-class research, technological innovation and entrepreneurial risk are its DNA. In 200 project teams, most of which are shared with major research universities, more than 3,500 researchers and engineers explore new paths, often in an interdisciplinary manner and in collaboration with industrial partners to meet ambitious challenges. As a technological institute, Inria supports the diversity of innovation pathways: from open source software publishing to the creation of technological startups (Deeptech).

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