AI-powered foodome characterization

Horizon Europe

PENDING

Code
HORIZON-CL6-2027-02-FARM2FORK-08

Scope
International

Location
Europe

Curator
Marlene Faria

FINANCIAL DETAILS

Support type
Non-Refundable

Maximum Funding Rate
100%

Budget
7.8M€

Eligible Project Value
Up to 7.8M€

DATES & DEADLINES

Publication Date
December 12, 2025

Opening Date
April 20, 2027

Deadline
September 23, 2027 at 05:00 PM GMT+2

DESCRIPTION

Objectives

This call aims to support the development of advanced Artificial Intelligence (AI) tools to accelerate the analysis of complex foodomics data, enabling faster identification, structural characterization, and quantification of chemicals present in food. The objective is to expand the current knowledge of the "foodome"—the complete set of compounds in food—beyond the limited set catalogued by traditional databases, addressing the vast "nutrient dark matter" that remains largely unquantified. The call seeks to improve research capacity and foster synergies between academia, research infrastructures, and industry in foodomics. Eligible applicants include consortia comprising industry, academia, startups, SMEs, and international initiatives, with a strong encouragement for multi-actor approaches and collaboration with international partners and existing private companies in the EU or Associated Countries.

Funding

The call provides a single grant of up to €7.8 million, with a funding rate of up to 70% of eligible costs for Innovation Actions (IA) and up to 100% for non-profit legal entities. The total topic budget is €7.8 million. The

support is provided as a non-refundable grant under the Horizon Europe Innovation Actions (HORIZON-IA) scheme.

ELIGIBLE EXPENSES

- Personnel Costs
- Travel costs
- Equipment costs
- Other goods, works and services costs
- Subcontracting
- Indirect Costs

BONUSES & MAJORATIONS

- Inclusion of industry, academia, SMEs, and startups in consortia
- Collaboration with international partners and existing private companies
- Multi-actor approach encouraged

ELIGIBILITY

Application Mode
Consortium / Copromotion

Eligible Sectors

- Agro-Food
- Health & Life Sciences
- ICT & Software
- Industry
- Other

Company Typologies

- Micro
- SME
- Large
- Private non-profit entities
- Public entities

Action Types

- Development and validation of AI algorithms for foodomics data analysis
- Creation of AI-ready foodome databases
- Establishment of European research and innovation networks in food exposome

- Testing and demonstration of AI tools for food chemical characterization
- Collaboration between academia, industry, SMEs, and startups
- Standardization and dissemination of AI results in foodomics
- Innovation Action

EU PROGRAMME DETAILS

Call ID
HORIZON-CL6-2027-02-FARM2FORK-08

Cluster
Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment

Destination
D2. Fair, healthy and environment-friendly food systems from primary production to consumption

Submission Mode
single-stage

EU Contribution
€7,800,000.00 per project

Expected Projects
1

Funding Rate Rule
Up to 70% of eligible costs for Innovation Actions (IA); up to 100% for non-profit legal entities

OFFICIAL LINKS

Official Regulation
https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/HORIZON-CL6-2027-02-FARM2FORK-08

Grantavia page
https://grantavia.com/en/incentives/ai-powered-foodome-characterization

Schedule a meeting
https://calendly.com/filipa-silva-epsa/reuniao