



SUPERFOOD BIOTECH

Developing bio-enriched superfoods on the farm through agronomic methods. Implementation of biotechnological solution microalgae-microorganism consortia

Beneficiary members

- Asociación Agraria de Jóvenes Agricultores (ASAJA)
- Instituto Agroquímica y Tecnología de Alimentos (IATA-CSIC)
- Innoplant Tecnología e Investigación Agrícola S.L.
- Asociación Española para la Transferencia Técnica y Tecnológica a la Agricultura y la Ganadería (ASETAGA)
- Agroisa S.L.
- AMC Innova Juice and Drinks S.L.

Subcontracted members

- Fruit Tech Natural S.A.
- Arosa Investigación y Desarrollo S.L.

CALL 2022

THEMATIC AREA: Crop production / SUBSECTOR: Vegetables

AUTONOMOUS COMMUNITIES EXECUTION: Andalusia, Aragon, Castile La Mancha, Chartered Community of Navarre, Extremadura, Region of Murcia, Valencian Community

GRANT AWARDED: € 593.713,06

PROJECT OPERATING PERIOD: June 2022-March 2025

MORE INFORMATION:

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SUPERFOOD BIOTECH promotes the symbiosis between soil and plants, aiming to discover fertilisation formulas that enhance the high-value minerals and micronutrients of crops in the field.

PROJECT OBJECTIVES EXPECTED RESULTS A viable option for Spanish fruit and vegetable Develop a new category of superfoods that producers is to expand into a new product cateincrease levels of biohealthy micronutrients. gory with high added value that caters to consumer needs. Direct study of technical-economic validation by using micro-organism-microalgae consortia on the Conducting experiments at 3 fruit and vegetable fields to demonstrate the proposed farm to generate 3Ms (Minerals + Microorganisms solution's technical and economic feasibility. + Organic Matter) and obtain bio-enriched fruit and vegetable products in high concentrations. Demonstrate that the project proposal achie-Quantifying the reduction of electricity and water ves reductions in water and electrical energy consumption during soil regeneration processes consumption to enhance production quality using the 3Ms method and in the production of fruit and add value. and vegetable superfoods. Characterise the products made in the fac-Identification of fresh bio-enriched product transtory (fruit juices and food products) and the formation and evaluation of using SDRs from onsubproducts and derived residues (SDRs) farm industrial transformations, as input for FMC produced during the manufacturing of Su-(micro-organism-microalgae consortia) culture perfood Biotech products which are highly enriched with bioactive compounds. Reduction greenhouse gas emissions, conduct a Demonstrate quantitatively the actual reduccomprehensive study on the bio-economic impact, tion of CO2 emissions, bio-economic impact, and choose projects supported by young people and job creation and sustainability in the producwomen in rural areas to establish bio-enriched fruit tion processes of biofertilisers (3Ms). and vegetable production enterprises.



