



## Digestimulus - a project on biostimulants and circular economy

*Fondazione LGH and Consorzio Italbiotec committed to the design and development of a biostimulant production process, as well as to promoting, by the use of biotechnology, environmental sustainability. Both entities are dedicated to innovation in the field of circular bioeconomy.*

The agricultural sector has embarked in the challenge of promoting sustainable agriculture, able to withstand climate change.

Biostimulants are fully part of this strategy and they are a key too to ensure an integrated approach, not only to nutrient supply, but also to all agricultural inputs. Furthermore, biostimulants' market is steadily growing, with a current value of 3B USD and a projected one of 5 B USD by 2025.

The Digestimulus project aims at developing a production process for a biostimulant-like product to improve crop production. This will be achieved by colonizing and incubating the solid fraction of agricultural biogas digestate with selected microorganisms. Such microorganisms will be chosen among those known to be not only safe, but also able to promote healthy plant growth.

The goal is to innovate both in terms of products and in terms of technology, which, as integral part of the agricultural sector, will contribute to its profitability and sustainability, starting from Lombardy.

The project will be carried out by pursuing the following goals (G):

- G1: selection of candidate microbial strains
- G2: Isolation of a local strain (M1-3)
- Cultivation protocol (M2-6)
- Strain selection and final development of the cultivation protocol. (M6-8)

### Consorzio Italbiotec

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### Fondazione LGH

Fondazione LGH was funded in 2021 to support development opportunities related to the circular economy, renewable energy and smart land technologies.

The Foundation operates in southern Lombardy, with particular attention to the research and development of innovative solutions applied to the agri-food chain.

[fondazioneelgh.it](http://fondazioneelgh.it)

### Consorzio Italbiotec

Consorzio Italbiotec has been actively engaged in the promotion of biotechnological innovation for 25 years. It encourages cooperation, networking and the transfer of expertise among its members.

Since its foundation, Consorzio Italbiotec has developed more than 100 research, development and training projects. Combining research, development, internationalization and networking activities, the Italbiotec Consortium is positioned as a unique reality in the national panorama of business accelerators for the bioeconomy.

[italbiotec.it](http://italbiotec.it)

