



International Centre for Genetic  
Engineering and Biotechnology

**ICGEB** is an Intergovernmental Organisation with operations aligned to those of the United Nations Common System. It is a Centre of excellence for Research, Training and Technology Transfer to industry to promote sustainable global development.

<https://www.icgeb.org>



Ministero degli Affari Esteri  
e della Cooperazione Internazionale

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## BIOINOCULANTS for Food Security in Africa



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## BIOINOCULANTS for Food Security in Africa

A project to accelerate innovation, technology transfer and development of microbial bioinoculants for resilient agricultural production and affordable food processing. Our goal is to enhance food security in Africa and create economic opportunities by supporting capacity building initiatives, research, entrepreneurship, international collaborations and large scale upward initiatives.



**Capacity building:** international mobility of researchers, workshops and courses



**Innovation:** grants to accelerate applied research and demonstrate or scale-up technologies



**Entrepreneurship:** business models, product validation, production, commercialisation and industrial collaboration

## MICROBES

### Towards Zero Hunger for an Equitable World



Food security is a global priority, with efforts underway to reach UN SDG-2 by 2030: End hunger, achieve food security and improved nutrition and promote sustainable agriculture.

According to the Food and Agriculture Organization (FAO) more than 860 million people suffer from food insecurity in Africa and more than 340 million experience severe food insecurity.

Beneficial microbes play an integral role in the production of food. In the soil, they assist plant growth and protect crops from diseases while bacteria and yeast are used in multiple industries – including baking, brewing, dairy – and in traditional food fermentation to produce tasty and nutritious food. B-INOC AFRICA supports local development of bioinoculants, starter cultures and their transfer to industry. Bioinoculants, based on selected microbes, are efficient biofertilisers and biopesticides, with net positive environmental impacts, while local starter cultures allow the production of safe and healthy fermented food, reducing reliance on imported ingredients.



<https://www.icgeb.org/b-inoc/>



A total of  
**33 African countries**,  
representing **1.18 billion people**



**16 capacity building and research initiatives** on biopesticides, biofertilisers and starter cultures.



**14 local partners** involved in scale-up, production, and commercialisation of bioinoculants

- Financial support and management
- Eligible country
- Exceptionally eligible country