MUGAVERO

M.A.S.® TECHNOLOGY

Microrganismi Agricoltura Sostenibile

In Mugavero, we are strongly committed to the enhancement, production and application of microbial resources. We feel the need to start again from microorganisms, and exploit their potential to produce healthy, nutritious and sustainable food, according to the concept of "one health" (global health), that is, putting in the foreground the indissoluble link between the well-being of nature and human health.

We dedicate ourselves every day to scientific research and the development of natural and non-GMO technologies, guaranteeing innovative biotechnological solutions for the agricultural sector. Therefore, we have developed the M.A.S. Technology (Microorganisms Sustainable Agriculture), which through the applications of beneficial microorganisms, allows to integrate agricultural production systems making them more sustainable, helping to improve soil health and the quality of food products. M.A.S. Technology delivers consistent results across all soil types, climates and agronomic programs, helping growers produce more.

We are guided by our aim to develop quality solutions, based on our innovative microbiology for sustainable agriculture: Our innovative Bio-formulations based on active microbial cultures (Biosafety Level 1), once applied to soil, colonize plant roots and enhance a wide range of hydrolytic and oxidative biochemical reactions during plant-microorganism interaction. After colonization, a symbiotic association ("holobiont") ensues which perpetuates the colonies throughout the season and maintains a stable balance of microbes at the plant root interface. Once the bacteria associate with the host plant and integrate into the plant's microbiome, the microorganism persists as a member of the plant's hologenome and confers positive phenotypic effects.

PLANT GROWTH-PROMOTING RIZHOBACTERIA (PGPR)

- PHOSPHATES SOLUBILISATION
- AUXIN PRODUCTION
- SIDEROPHORES PRODUCTION
- PRODUCTION OF METABOLITES II
- ACC DEAMINASIC ACTIVITY

- Increases the availability of nutrients
- Improves root development
- Improves the vigor of the plant
- Restores, regulates and optimizes native microbial activity in the soil
- Improves soil fertility
- Maximize yield potential
- Decreases application of chemical fertilizer

M.A.S. Technology can be coated into a wide range of fertilizers or fertilizer fillers (eg Urea, NPK), or mixed with liquid fertilizers, to create an enhanced efficiency fertilizer. Some of our formulations have an high spore content significantly that increases the shelf life of the product.
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