

New generation strains for agricultures

Sacco system is a company with a deep **R&D expertise for plant growth promoter microbes (PGPMs)**. Our goal is to identify and study microbial strains able to promote plant **biostimulation or biocontrol against plant pathogens**. These strains build and empower our unique and private industrial culture collection, playing a key role for our product development project, and our business models. Our PGPMs act through evolutionarily selected mechanisms, that preserve the ecological balance of plant wellness and growth, in the different environmental conditions.

This means that our PGPMs play a vital role for a **healthy environment**. Our proprietary microbes act as stimulators of plant nutrition, directly and indirectly supplying nutrients to the target crops.

Moreover, they empower the plant immune system, to guarantee resistance against abiotic stresses. Finally, they promote the overall balance of the plant within its ecological niche between soil, microbes and eukaryotes.

Our microbes are the ingredients of our blends, that create the new biostimulants of the future! These formulations are custom-designed to match the requests and the needs of our customers (fertilizer producers) and collaborators, as well as those of the farmers and their crops.

We work side-by-side with our customers to understand at the best their needs, and to offer the most **effective** and **sustainable solutions**.

In conclusion, **Sacco System is a leader in the plant microbiology R&D**, and our ingredients represent a great opportunity to improve crop yields, and to put the foundation for a more **sustainable** and **balanced agriculture**.

From the field, to the lab, and back to the field!

Our innovation starts by the isolation and selection of the fittest and best performing microbes, which promote plant health and growth in the field. We analyse their physiological features and their genetic potentials, to fully dissect their power, from a genomic, biochemical and agronomic standpoint.

Once analysed, we test our best candidates in field again, to test their biostimulatory or biocontrol activity on the main crops. Thanks to our platform, we characterize our field results precisely both agronomically (Landlab) and genomically (Synbiotec).

We scale-up your strains!

With more than 100 years of fermentation experience, Sacco System is able to design, test and improve productive process of fermented microbes and their metabolites, in order to create new high-quality ingredients for your fertilizers, biostimulants and biocontrol agents. We can develop IPs, new processes and also test most innovative and exotic strains to reach your goals.



A new solution tailored for you

Our variegated selection of microbes, analysed in the lab and tested in the field, will be used to create new custom-oriented solutions. In fact, our experience in microbiology and agronomy, allow us to offer new diversified, cost-effective ingredients for your specific requests and claims. In this way, we can guarantee an à-la-carte selection of our most innovative prototypes, to allow an exclusive, unique and effective product development for your needs.

Supporting you for all the innovation phases!

Our job does not stop at the delivery of our product, because our technicians and agronomists will support you also in the application of these new ingredients, developing the right strategy and best plan of analyses. Finally, we will follow you also in the analytical evaluation of the harvest and the final results, through our genomic, agronomic, biochemical and microbiological research platform, in order to fully understand the ecological and plant physiological impact of our product, and to possibly improve our formulation and structure your claims perfectly.

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