



Biostimulants: Mechanisms of Action, Trial Protocols and New Technologies

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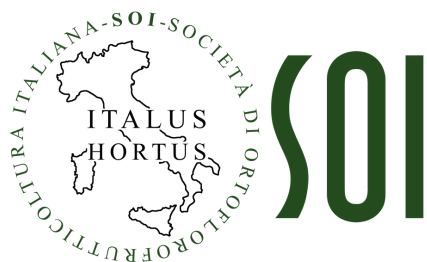
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INFORMATION

TECHNICAL COURSE ORGANISED BY

Agricola2000
Services & Research for Agriculture

SUPPORTED BY



biovegen
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de biotecnología vegetal

Course

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The global biostimulant market, estimated at around 3 billion dollars in 2021, is rapidly growing. It is expected that the market to exceed 5 billion dollars by 2027.

The need to optimise the efficiency of production inputs, combined with consumer demand for healthy and low environmental impact food, is driving this expansion.

Europe currently dominates the market with a 45% share, followed by North America, Asia, and Latin America. France, Italy, and Spain are the leading European biostimulant producers.

From 2000 to 2022, universities and research institutes in over 40 countries contributed to biostimulant research, highlighting the importance of understanding the efficacy, methods, dosages, and application periods of these products.

Participation in this course offers R&D managers and their teams with the opportunity to deepen their knowledge of biostimulants, exploring their mechanisms of action thanks to the application of omics approaches and other advanced technologies.

This enables not only the development of new, more targeted and specific biostimulant products, but also optimise the market positioning of existing products, improving their efficacy and competitiveness.



Objectives



This online course is designed to provide R&D managers and their teams a deeper understanding of biostimulants, with particular focus on:

1. **Regulatory and Legislative Aspects:** In-depth analysis of current regulations and legislative aspects influencing the production and use of biostimulants.
2. **Mechanisms of Action:** Study of the mechanisms by which biostimulants promote plant growth, improving nutrient uptake and inducing resistance to abiotic stress.
3. **Testing Protocols:** Practical guidelines to design and conduct trial protocols to evaluate the efficacy of biostimulants, both in the lab and in the field.
4. **New Technologies:** Introduction to emerging technologies and omics approaches that are revolutionising the development of biostimulants.

Join us to discover how the integration of new technologies and methodologies can enhance your ability to develop innovative biostimulants, improving agricultural production and environmental sustainability.

Invest in your training and that of your team to stay up to date with the latest innovations and maintain your leadership in the biostimulant market.

Programme



Classes will take place on Fridays from 9:00 AM to 1:00 PM on the following dates: November 7, 14, 21, and 28.

The Biostimulants: Legislation and Regulatory Aspects

To understand the European and International Regulatory Framework

Friday, November 7



Plant nutrition

How biostimulants can optimise nutrient use efficiency.

Mechanisms of Action of Biostimulants

How biostimulants can improve nutrient uptake, stimulate plant metabolism, and regulate plant hormones.



Trial protocols

Methodologies for the organisation and definition of trial protocols, including in vivo and laboratory analyses.

Friday, November 21

Abiotic Stress

The role of biostimulants in enhancing plant tolerance to adverse conditions such as drought, salinity, and extreme temperatures.

Friday, November 14



New Technologies and Omics Approaches

Use of genomics, proteomics, and metabolomics to study mechanisms of action.

Friday, November 28

Lecturers



Antonio Ferrante

PhD, Full Professor

Institute of Plant Production

Sant'Anna School of Advanced Studies - Pisa



Giacomo Cocetta

PhD, Associate Professor

Department of Agricultural and Environmental
Sciences

University of Milan



Giel Tettelaar

Chairman

Global Network Group and SERMI Register



Enrico Gozio

Digital Agriculture Specialist

Agricola 2000

Information



Lesson Access

The course is conducted in online format using Microsoft Teams. Access links will be provided at the time of registration.

Attendance will be monitored for the entire duration of the course to issue the certificate.



Certificate of attendance

A participation certificate will be issued at the end of the course (compulsory minimum attendance is 75% for the duration of the course)



Registration

To participate, complete the registration form by October 24, 2025, subject to availability.

Download the [registration form](#) and send it to m.guarise@agricola2000.com.

Standard fee: €550 + VAT.



Early bird discount

€450 for those who register by October 3.

Agricola 2000

*A future oriented
organisation with
solid roots.*



Agricola 2000 has a strong commitment to research and innovation, continuously enhancing its expertise and updating techniques and methodologies to deliver high-quality, efficient, and reliable services.

By conducting detailed studies, field trials, and ongoing consultancy, Agricola 2000 ensures the optimal development and positioning of entrusted products. With over 40 years of experience, the company provides services such as:

- GEP Trials
- GLP Studies
- Seed
- Training & Projects
- Advanced Training Courses

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