



Phytobiomes: A New Vision for Agriculture

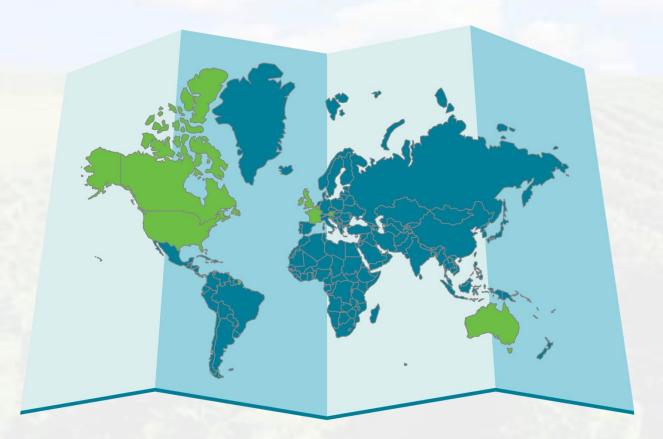
Name

Date

Conference & City Country



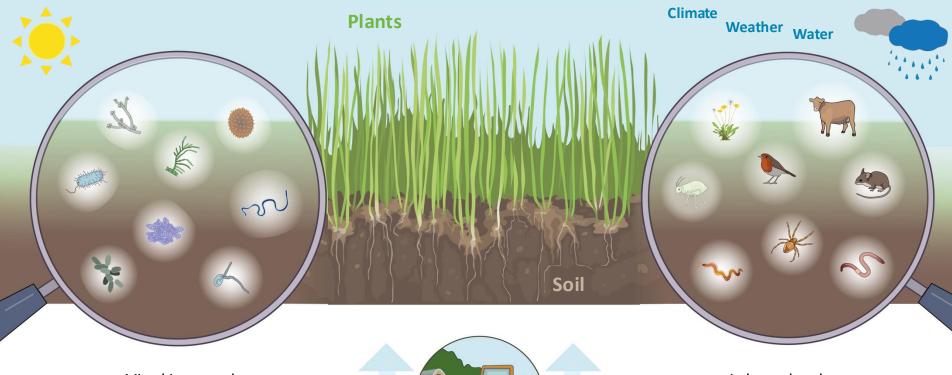
International Alliance for Phytobiomes Research



- Nonprofit, precompetitive research consortium
- Industry, Academia, and Government
- 8 countries
- Coordinating a paradigm shift in agricultural research and production



Phytobiomes: Complex Systems of Plant-based Agriculture



Microbiomes and macroorganisms/macrofauna

Arthropods, other animals and plants

All influenced by management practices



Examples of Phytobiomes





Holy Grail for Phytobiomics



To understand, predict, and control emergent phenotypes within specific phytobiomes for the sustainable production of food, feed, and fiber.



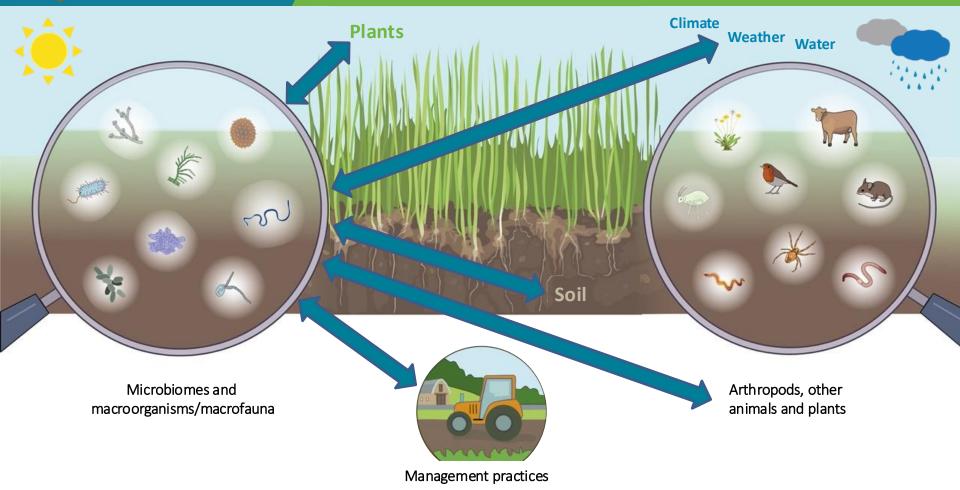
Phytobiomes Alliance Vision



By 2050, all farmers have the ability to use predictive and prescriptive analytics based on geophysical and biological conditions for determining the best combination of plants, management practices, and inputs for a specific site in a given year.



Phytobiomes: Major Research Gaps





Research Priorities



Phytobiomes-knowledge generation



Standards and protocols & capacity building for application



Regulatory framework



Data generation, management & modeling



Multi-disciplinary capacity building



Precision, digital and Al Ag integration



Major Efforts







Sequence-based Classification System for Microbes



Microbiome Standards – International Microbiome & Multi'omics Standards Alliance



Facilitate Regulatory Compliance



Coordination of Microbial Collections and Networks: Public & Private



Establish Linkages with Human and Animal Health & Nutrition



Phytobiomes Alliance Working Groups

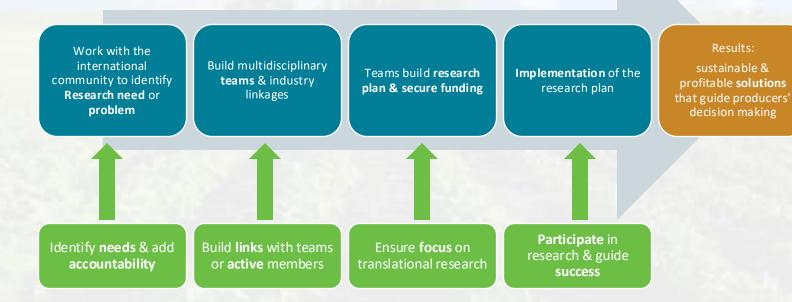
Identify gaps and research needs; coordinate efforts on specific topics





The Alliance in Action

Translating Research Outcomes into Results



Industry Sponsor Participation



Phytobiomes Alliance Sponsors





























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