



Welcome to *The Uniqueness & Commonalities Between Plant, Animal and Soil Microbiomes Workshop*

13 January 2026



Plant & Animal Genome Conference
San Diego, CA, USA

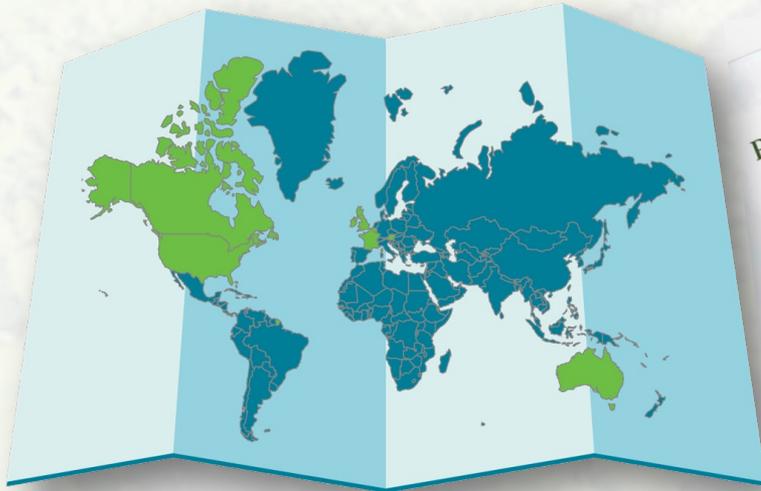


Welcome & Expectations

- Welcome
- Please silence cell phone
- 4 talks - 25 minutes each
- 5 minute Q&A opportunity after each presentation
 - Additional discussion at the end if time allows
- Phytobiomes Alliance Overview

Phytobiomes Alliance

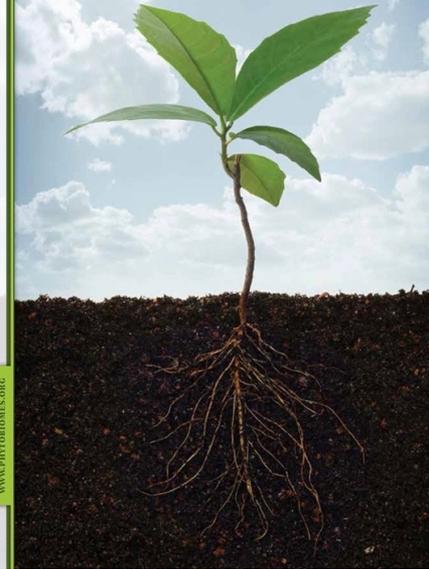
- Nonprofit, precompetitive research consortium
- Industry, academia, and government
- Paradigm shift in agricultural research & production



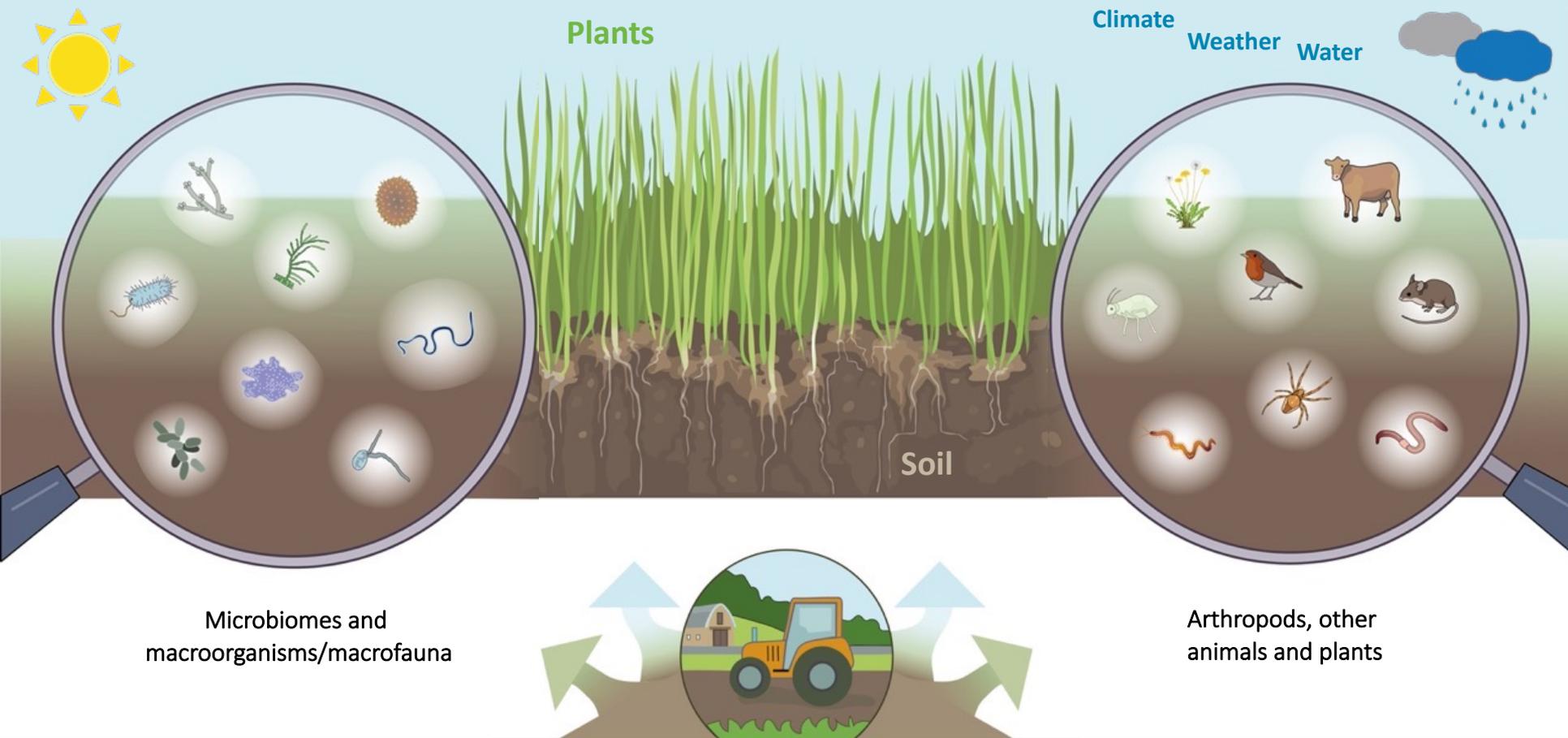
Phytobiomes Roadmap
a New Vision for Agriculture
*maximizing sustainable food, feed, and fiber
production through the knowledge of phytobiomes*
www.phytobiomes.org/roadmap
[@phytobiomes](https://twitter.com/phytobiomes)

PHYTOBIOMES

A Roadmap for
Research and Translation



Phytobiomes: Complex Systems of Plant-based Agriculture



Microbiomes and
macroorganisms/macrofauna

Arthropods, other
animals and plants

All influenced by management practices



Phytobiomes Alliance Sponsors



ΛBRINCA—
GENOMICS



Our 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 any given year.





The Alliance in Action

Identify research, tools, technology gaps
Coordinate activities/projects that address them

Board of Directors

- Sets the overall vision and mission

Coordinating Committee

- Establishes priorities
- Sponsor representatives and project leaders

Working Groups

- Lead and coordinate efforts on specific topics

Working Groups

Lead/Coordinate efforts on specific topics



Animal Microbiomes

Chair: Claire Rogel-Gaillard
Co-Chair: Paul Cotter



Controlled Environment Agriculture

Chair: Trevor Charles
Co-Chair: Soledad Benitez Ponce



Microbiomes

Chair: Jason Wallace
Co-Chair: Richard Broglie



Regulatory

Chair: Boris Vinatzer
Co-Chair: Kellye Eversole



Soil Health

Chair: Vacant
Co-Chair: Davide Bulgarelli



Upcoming Webinars

- **28 January 2026** – *“Climate Futures, Earth System Models, and Crop Productivity”* – Sabrina Cohen, Colorado State University, USA
- **25 March 2026** – *“Ecosystems to molecules: How historical precipitation shapes the soil microbiota’s effect on plant drought tolerance”* – Maggie Wagner, The University of Kansas, USA
- **22 April 2026** – *“Digging into the Rhizosphere Chemistry: How Plants Engineer Their Soil Environment”* – Adrien Fremont, Lawrence Berkeley National Laboratory, USA
- **17 June 2026** – Title TBD – Matthieu Barret, INRAE, France
- <https://phytobiomesalliance.org/webinars/>



SAVE THE DATE



INTERNATIONAL PHYTOBIOMES CONFERENCE 2026

3-5 NOVEMBER

**Niagara-on-the-Lake,
Ontario, Canada**

www.phytobiomesconference.org



Alliance Staff: Get in Touch with Us

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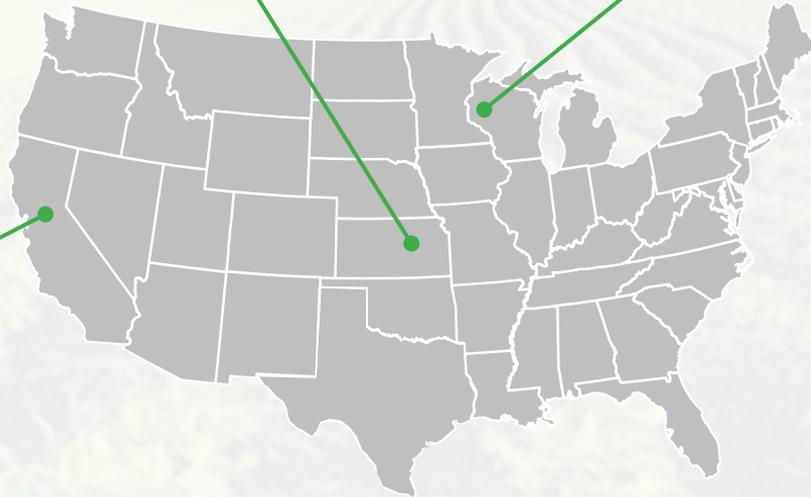
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www.phytobiomesalliance.org



internationalphytobiomesalliance

@phytobiomes



Workshop Speakers and Topics

4:10	Michèle Tixier-Boichard Universite Paris-Saclay, INRAE	Exploring the Diversity of Holobionts as a Key in Connecting Animal, Plants and their Environment
4:40	Alonso Favela University of Arizona	The Hidden Domestication of Soil Metagenomes Under a Century of Agriculture
5:10	Sanjay Antony-Babu Texas A&M University	Domestication Associated Shifts in Leaf Endosphere Microbiomes of Maize and Tomato
5:40	Nichole Ginnan University of California-Riverside	Rooted in the Past: Soil Microbiome Memory Shapes Plant Drought Responses



Thank you for participating in the Workshop!

www.phytobiomesalliance.org

