



Exploring Phytobiomes

11 January 2026



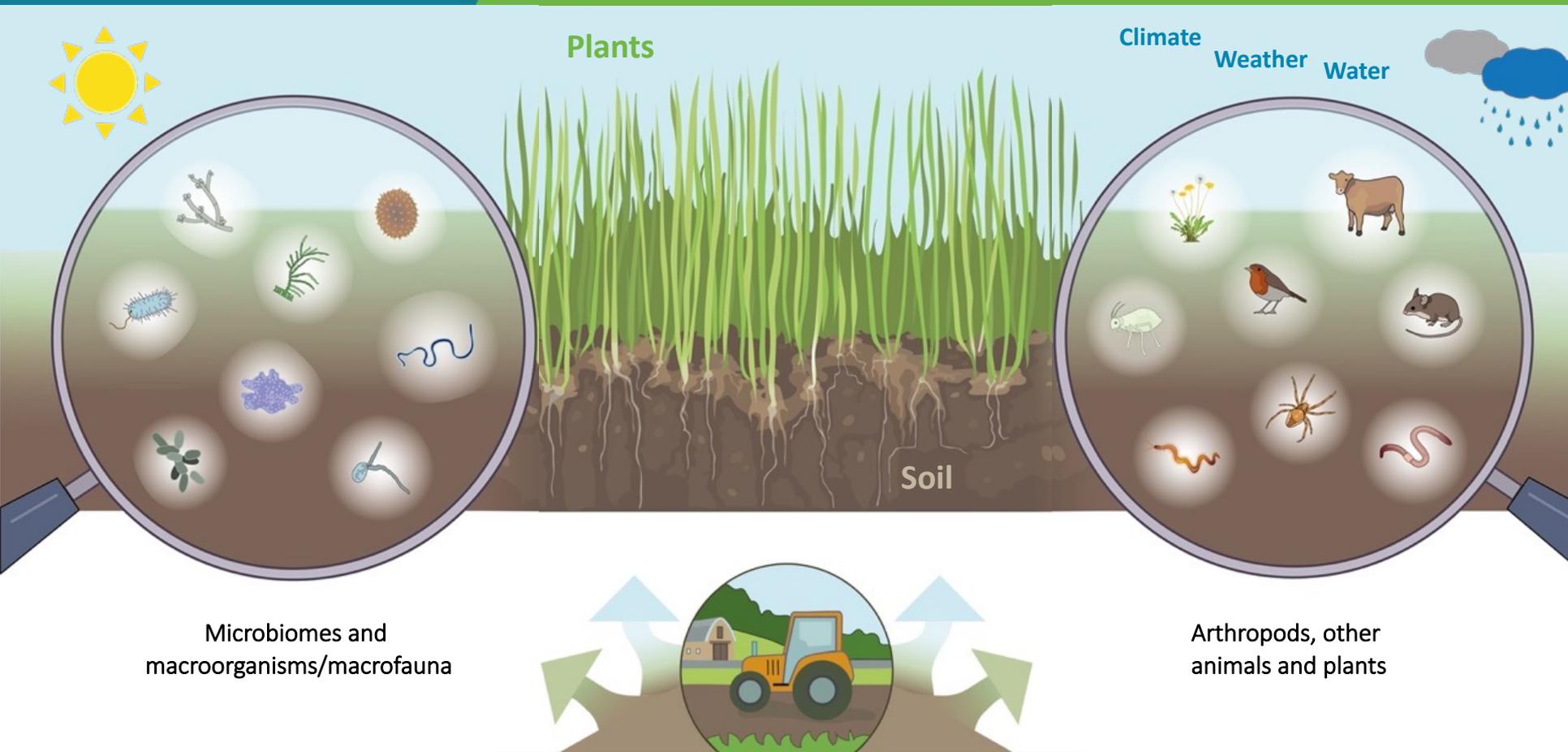
Plant & Animal Genome Conference
San Diego, CA, USA



Phytobiomes Alliance Sponsors



Phylobiomes: Complex Systems of Plant-based Agriculture



Plants

Climate

Weather

Water

Soil

Microbiomes and
macroorganisms/macrofauna

Arthropods, other
animals and plants



All influenced by management practices

Examples of Phytobiomes



Crop Field

A wide-angle photograph of a vast, golden-brown wheat field under a clear blue sky. A yellow combine harvester is visible in the distance on the left side of the field.



Pasture

A photograph of a lush green pasture with several black and white cows grazing. The sky is bright blue with scattered white clouds.



Vegetable Garden

A photograph of a rooftop vegetable garden. Numerous black plastic-covered raised beds are filled with various green leafy vegetables. In the background, a city skyline with several buildings is visible under a clear sky.



Forest

A photograph of a forest with many thin, white-barked trees, likely birches, with some yellow autumn foliage. The ground is covered with fallen leaves.

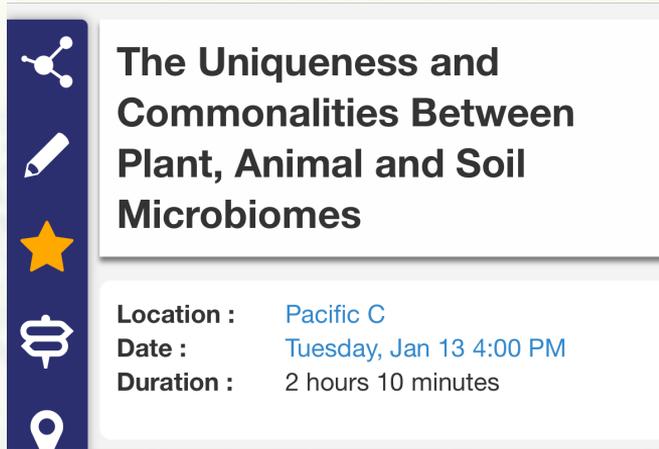


Vertical Farm

A photograph of a vertical farm. Multiple levels of white hydroponic channels are stacked vertically, each containing green leafy plants growing in a controlled environment.

Workshop

Tuesday 13 January 2026



The Uniqueness and Commonalities Between Plant, Animal and Soil Microbiomes

Location : Pacific C
Date : Tuesday, Jan 13 4:00 PM
Duration : 2 hours 10 minutes

Icons: Share, Pencil, Star, Speaker, Location

Webinars



2026 WEBINAR SERIES WEDNESDAYS @11:00 AM ET

28 JANUARY
CLIMATE FUTURES, EARTH SYSTEM MODELS, AND CROP PRODUCTIVITY
Sabrina Cohen
Colorado State University, USA

25 MARCH
ECOSYSTEMS TO MOLECULES: HOW HISTORICAL PRECIPITATION SHAPES THE SOIL MICROBIOTA'S EFFECT ON PLANT DROUGHT TOLERANCE
Maggie Wagner
University of Kansas, USA

22 APRIL
DIGGING INTO THE RHIZOSPHERE CHEMISTRY: HOW PLANTS ENGINEER THEIR SOIL ENVIRONMENT
Adrien Frémont
Lawrence Berkeley National Laboratory, USA

Information & registration at www.phytobiomesalliance.org/webinars

<https://phytobiomesalliance.org/webinars/>



SAVE THE DATE



INTERNATIONAL PHYTOBIOMES CONFERENCE 2026

3-5 NOVEMBER

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

www.phytobiomesconference.org



Workshop Speakers and Topics

Gabriela Madrid Oak Ridge National Laboratory	System-Scale Mechanisms at the Plant-Microbe-Environment Interface In Poplar
Ricardo Alcalá Briseño Penn State University	La France Disease 2.0: Same Old Symptoms, New Viral Players in <i>Agaricus bisporus</i>
Jacob Montgomery University of Chicago	Won't You be My Neighbor? A Weed's Role In Crop Improvement
Dexter Li Switch Bioworks	Next-Gen Nitrogen Biofertilizers through Genetic Engineering and Predictive Models
Pankaj Trivedi Texas Tech University	Unravelling the Global Microbiome of Crop Plants