

Plants

Climate Weather Water

Microbiomes and macroorganisms/macrofauna

All influenced by management practices



A NSF-funded Research Coordination
Network

Bringing together scientists working
with living microbe collections

A partnership with the
International Phytobiomes Alliance
for Research

USCN.org

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USCCN Major Focus: Public Registry

Create and Maintain a Public Registry of U.S. Collections to Maximize **Synergy and Minimize Duplication**

- > Crucial to document the location, size, and holdings of collections
- Registry is curated & updated
- Ensure collections of all types are well represented
- > Includes small research collections at universities, governmental agencies and private for-profit and non-profit organizations



Voluntary information in an open registry stored at usccn.org Publicly available via an online searchable database Register your collection at usccn.org/culture-collections



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Phytobiomes Conference 2024 FERENCE 2024 8-10 October 2024 St. Louis, MO, USA www.phytobiomesconference.org

Main Scientific topics

- Climate/weather
- **Environmental Data Set**
- Plant fitness
- Microbial community assembly and function
- Network analyses within the phytobiome system
- Modeling
- Data framework, tools and resources, big data
- Genetic linkages
- Carbon sequestration
- Interactions within phytobiomes for abiotic stress
- Engineering microbes and microbial communities
- Precision agriculture/digital Ag
- Fertilizer, nutrient, and chemical input efficiency
- Product development
- Regulatory requirements
- Greenhouse & Field trials
- Industry research needs

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Phytobiomes Alliance Webinar: 25 January

➤ The UK Crop Microbiome Cryobank – A Utility To Support Phytobiomes Research

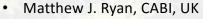








Presenters:



- Nicola Holden, Scotland's Rural College, UK
- Jacob Malone, John Innes Centre, UK
- Tim Mauchline, Rothamsted Research, UK



