



Joint Webinar Series

11 March 2021

Kellye Eversole

Executive Director, IWGSC & Phytobiomes Alliance

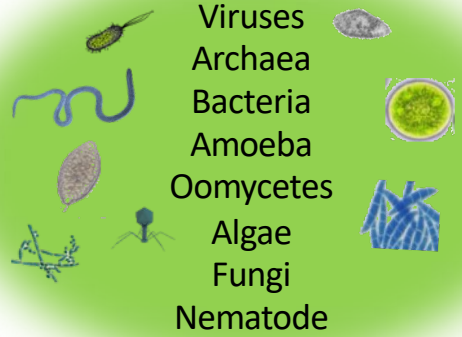


Phytobiomes: Complex Systems of Plant-based Agriculture



“Phyto-” = Plant

“Biomes” = Site specific environments



Viruses
Archaea
Bacteria
Amoeba
Oomycetes
Algae
Fungi
Nematode

**Microbiomes and
Macroorganisms/Macrofauna**



Plants

Soils



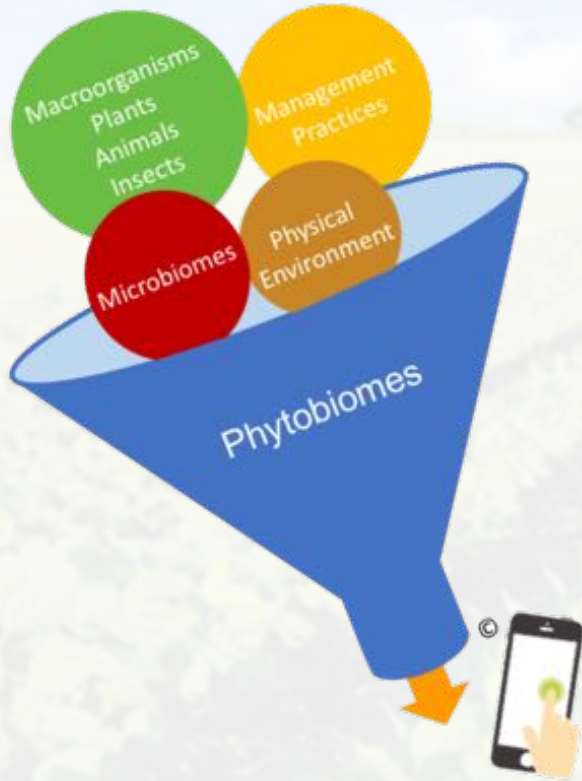
Insects
Arachnids
Myriapods
Worms
Birds
Rodents
Ruminants
Weeds

**Arthropods, Other
Animals and Plants**



All influenced by Management Practices

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 crops, management practices, and inputs for a specific field in a given year.



International Alliance of Phytobiomes Research Sponsors



Enhance breeding through an increased understanding of the molecular basis of traits and their allelic diversity

IWGSC Sponsors



Next Webinar: 25 March 2021

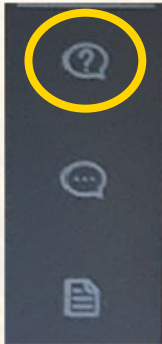
- ▶ **Title:** Deciphering the genetic basis of cytoplasmic male sterility and fertility restoration in wheat
- ▶ **Presenter:** Joanna Melonek, The University of Western Australia, Australia
- ▶ **Registration:** <https://attendee.gotowebinar.com/register/4548663524777999373>
- ▶ **Time:** 10 am EDT, 3pm CET



Webinar dashboard

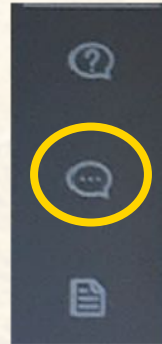
- ▶ The webinar will be posted on the IWGSC and the Phytobiomes Alliance YouTube channels in a few days. Subscribe to the channels to never miss a new upload: <https://www.youtube.com/c/internationalwheatgenomessequencingconsortium> and <https://www.youtube.com/c/PhytobiomesAlliance>
- ▶ The presentation will be followed by a Q&A session

Questions



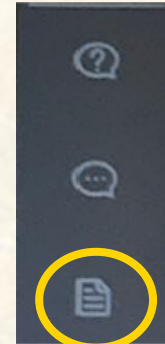
Submit your questions in the Q&A panel, do not use the chat

Chat



Use the chat panel to talk with fellow attendees or the organizers

Handouts



Download handouts from the presentations in the handout panel



IWGSC Webinar Series: 11 March 2021

- ▶ **Genetic dissection of disease resistance mechanisms hijacked by a necrotrophic pathogen of wheat**
- ▶ **Presenter: Justin Faris, Research Geneticist, USDA-ARS**





Thank you for your participation!

www.wheatgenome.org

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