Metagenomics Mondays Summer Seminar Series

What: Metagenomics and microbiome studies, including 16S and ITS amplicon sequencing, total community DNA/RNA sequencing, proteomics, or any other approach to understanding organismal communities based on the information found in the collective metagenome.

Context: Microbial communities have a strong impact on all aspects of life on earth, including agriculture, human and animal health, and in all ecosystems. At ISU and beyond, challenges and opportunities in microbiome research are being addressed using novel approaches from diverse disciplines. Researchers working in this area are in animal science, biosystems engineering, plant pathology, agronomy, veterinary medicine, and others. In this seminar series, we will host speakers from veterinary sciences, plant sciences, microbiology, statistics, data science, engineering and more.

Where: 0013 Curtiss on the ISU Campus and broadcast

Times: 12:00-1:00 PM (except June 11, which will be 11:30-12:30)

Sign up: http://goo.gl/7CRA5b    Join the seminar online: https://iastate.zoom.us/j/952438833
(Optional: test your zoom connection: https://zoom.us/test)

=> Lunch will be provided <=

Dates and Speakers:

June 4 ..............................................Gwyn Beattie, Plant Path and Micro
Microbial impacts on plant growth and stress tolerance – do plants direct the assembly of beneficial communities?

June 11 <= special time: 11:30-12:30 ..........John Hsieh, Animal Science and BCB (Grad Student)
Characterization of chicken cecal microbiome during acute and chronic heat stress

June 18 ..............................................Allen Miller, Plant Path and Micro
The soybean aphid virome

June 25 ..............................................Larry Halverson, Plant Path and Micro
Shifting soil and rhizosphere microbiomes to more robust interconnected communities

July 2 => SKIP <=

July 9 ..............................................Stephen Esser-Schmitz, Animal Science
Contribution of beef cattle gastrointestinal tract microbiota to tolerance to fescue toxicosis

July 16 ..............................................Iddo Friedberg, Vet Micro and Preventive Medicine
Why your microbiome analysis is wrong

July 23 ..............................................Karin Dorman, Statistics &GDCB
Unsupervised community characterization: methods for clustering of big amplicon datasets

July 30 ..............................................Greg Phillips, Vet Micro and Preventive Medicine
Community involvement: tracking genetic adaptation in the gut microbiome

Supported by the ISU Office of the Vice President for Research and the Midwest Big Data Hub