



2020

CCRP October Semi-Annual Meeting

novo nordisk fonden



NC STATE UNIVERSITY



Agenda: CCRP 2020 October Semi-Annual Meeting

*5-min Flash talks or 15-min Research talks followed by 5 min Q&A after each speaker
plus two 30-minute Breakout sessions*

Day 1: Wednesday October 28, 2020

8:00 am (EST) / 1:00 pm (CET) Amy Grunden (CCRP) – opening remarks for Day 1

Session I – Bioinformatics

Moderator: Cranos Williams

EST / CET

- 8:15 am / 1:15 pm Laura Milena Forero Junco (Matrix) - Reproducible wheat virome analysis using Snakemake **[CANCELLED]**
- 8:25 am / 1:25 pm Aaron John Christian Andersen (Interact) - DTU Metabolomics Platform
- 8:35 am / 1:35 pm Max Gordon (InRoot) - Lotus Overwintering Transcriptomics Analysis
- 8:55 am / 1:55 pm Simon Rasmussen (Matrix) - MATRIX data integration
- 9:05 am / 2:05 pm Ross Sozzani (Matrix) - A modular and scalable neural network model
- 9:15 am / 2:15 pm Bio Break 1 – Snack & Stretch

Breakout Session 1

Update on Biolomics and Computerome 2

9:30 am – 10:00 am EST / 2:30 pm – 3:00 pm CET

Session Leaders: Ignazio Carbone (Biolomics) & Pietro Bortolozzo (Computerome 2)

Session II - Chemical and Imaging Analysis

Moderator: Oliver Baars

EST / CET

- 10:10 am / 3:10 pm Jan H Christensen (Matrix) - Non-target screening of volatile and semi-volatile microbial- and plant metabolites: First tests of multiple GC-MS platforms on samples from the 2020 sampling campaign in The Matrix.
- 10:30 am / 3:30 pm Camilla Lind Salomonsen (InRoot) - Molecular signatures of rhizosphere communication
- 10:40 am / 3:40 pm Jesper Cairo Westergaard (Matrix) - Imaging of the leaf and the plot, in different spectral and spatial resolutions
- 10:50 am / 3:50 pm Bio Break 2 – Snack & Stretch

Session III – Methods and Experimental Design

Moderator: Carsten Suhr Jacobsen

EST / CET

- 11:00 am / 4:00 pm Jens Frisvad (Interact) - Media for isolation of fungi from rhizosphere and rhizosphere
- 11:10 am / 4:10 pm Kitzia Molina (Interact) - Isolation strategy for the development of a wheat microbiology Biobank
- 11:20 am / 4:20 pm Jabeen Ahmad & Vicki Cornish (Interact) - Wheat Developmental Series Experiment Setup
- 11:30 am / 4:30 pm Alex Gobbi (Matrix) - Follow the flag: separation, amplification, and sequencing of the flag-leaf microbiome
- 11:45 am / 4:45 pm Thanassis Zervas (Interact) - TotalRNA sequencing of soil samples
- Noon / 5:00 pm Amy Grunden (CCRP) – Closing remarks for Day 1

~~~ End of Day 1 - see you on Day 2 ~~~

## **Day 2: Thursday October 29, 2020**

8:00 am (EST) / 1:00 pm (CET) Amy Grunden (CCRP) – Opening remarks for Day 2

## **Session IV – Plant-Microbe Interactions**

Moderator: Simona Radutoiu

### EST / CET

- 8:15 am / 1:15 pm Simon Kelly (InRoot) - Microbiome establishment in relation to plant development and host transcriptional responses to a synthetic community.
- 8:35 am / 1:35 pm Viviane Cordovez (Matrix) - The Flag Leaf Inventory: diversity and functions of bacteria and yeasts from the wheat phyllosphere
- 8:45 am / 1:45 pm Sebastian Schneider (InRoot) - Protein phosphorylation-mediated signal transduction to control host-microbe interaction
- 9:05 am / 2:05 pm Christine Hawkes (Matrix) - Initial insight into the wheat foliar microbiome
- 9:25 am / 2:25 pm Bio Break 1 – Snack & Stretch

## **Session V – Seed and Root Microbiome**

Moderator: Marc Cubeta

### EST / CET

- 9:40 am / 2:40 pm Gijs Selten (InRoot) - InRoot - WP3 - SuperSynCom inoculation
- 9:50 am / 2:50 pm Masaru Bamba (InRoot) - Test analysis of G x C x E effects on the root microbe community.
- 10:10 am / 3:10 pm Ke Tao (InRoot) - Host preference and invasiveness of commensals in the Lotus and Arabidopsis root microbiota
- 10:30 am / 3:30 pm Pathy Fernandez-Moreno (Interact) - Exometabolome interactions between root and microbes in the wheat rhizosphere
- 10:40 am / 3:40 pm Thomas Georg Roitsch (InRoot) - Integration of reciprocal signaling into plant physiological responses to sustain growth and stress resilience
- 11:00 am / 4:00 pm Lindsey Becker (Interact) - *In Silico* Analysis of the Wheat Seed Microbiome
- 11:20 am / 4:20 pm Amy Grunden (CCRP) – Visiting Scholar Program update & closing remarks

## **Breakout Session 2**

Matrix-Interact Joint Sampling Strategies

11:30 am – noon EST / 4:30 pm – 5:00 pm CET

Session Leaders: Christine Hawkes & Mette Haubjerg Nicolaisen

~~~ End of Day 2 – Thank you for joining us ~~~

Please visit us at: <https://ccrp.vcl.ncsu.edu/>