

CCRP June Semi-Annual Meeting

Tuesday June 8 and Wednesday June 9, 2021



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NC STATE UNIVERSITY

UNIVERSITY OF
COPENHAGEN



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Day 1: Tuesday June 8, 2021

8:00 am – 1:00 pm (USA EST) // 2:00 pm – 7:00 pm (Europe CEST)

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- Amy Grunden

(15 min) Welcome & Introduction

8 am – 8:15 am (USA EST) // 2:00 pm – 2:15 pm (Europe CEST)

Speaker Session 1: Analysis of Plant Exudates and Microbial Secondary Metabolites

8:15 am – 10:00 am (USA EST) // 2:15 pm – 4:00 pm (Europe CEST)

Session 1 Moderator: Marianne Glasius

- Jens Frisvad (*Interact*)
(25 min) Diversity of fungi at the wheat rhizosphere – a culture-dependent survey
- Oliver Baars (*Interact*)
(25 min) Constitutive and stress-induced root exudation of wheat
- Camilla Lind Salomonsen (*InRoot*)
(10 min) Analyses of *Lotus japonicus* exudate patterns
- Rosanna Hennessy (*Interact*)
(25 min) Secondary metabolites of importance for plant growth

BREAK 1

(10:00 am – 10:15 am USA EST) // (4:00 pm – 4:15 pm Europe CEST)

Speaker Session 2: Recruitment & Function of Microbiomes
10:15 am - 11:45 am (USA EST) // 4:15 pm - 5:45 pm (Europe CEST)

Session 2 Moderator: Ronnie de Jonge

- Courtney Horn Herms (*Interact*)
(10 min) Impact of root morphology on recruitment of microbes
- Anna Martyn (*InROOT*)
(10 min) Nutrient regulation of microbiota in Lotus and barley (Lj+Barley in soil)
- Florian Lamouche (*InROOT*)
(10 min) Genotype effect on endosphere colonization
- Linda Gouka (*MATRIX*)
(25 min) Diversity and functions of the wheat phyllosphere microbiome
- Laura Milena Forero Junco (*MATRIX*)
(10 min) Viral diversity on the wheat phyllosphere

BREAK 2

(11:45 am - Noon USA EST) // (5:45 pm - 6:00 pm Europe CEST)

Day 1 WORKSHOPS

Noon - 1:00 pm (USA EST) // 6:00 pm - 7:00 pm (Europe CEST)

Workshop 1 (Breakout Room #1): *Total RNA, Library Preparation Methods and Sequencing Analyses*

Workshop 1 Moderator: Stig U. Andersen (InROOT)

- Thanassis Zervas (Total RNA) (7 min) - Interact
- Simon Kelly (Amplicon sequencing/meta barcoding) (7 min) - InROOT
- Ronnie de Jonge (Metagenomics) (7 min) - InROOT
- Carsten Suhr Jacobsen (Moderated discussion of integration of the three methods in community analysis) - Interact

Workshop 2 (Breakout Room #2): *Deterministic Modelling and Machine Learning Approaches*

- Stathis Diamantopoulos (Deterministic Modelling Approaches) - UCPH
- Cranos Williams (Machine Learning Approaches) - InROOT

End of Day 1

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## Day 2: Wednesday June 9, 2021

7:00 am – 11:30 am (USA EST) // 1:00 pm – 5:30 pm (Europe CEST)

Followed by the Scientific Advisory Board Meeting

11:30 am – 12:30 pm (USA EST) // 5:30 pm – 6:30 pm (Europe CEST)

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- Amy Grunden

(15 min) Welcome & Introduction

7 am – 7:15 am (USA EST) // 1:00 pm – 1:15 pm (Europe CEST)

Speaker Session 3: Plant-Microbiome Signaling

7:15 am – 8:30 am (USA EST) // 1:15 pm – 2:30 pm (Europe CEST)

Session 3 Moderator: Dugald Reid

- Masaru Bamba (*InROOT*)
(25 min) Exploring the impact of *Lotus japonicus* natural variation on root microbiomes under different environments.
- Megan Franklin (*InROOT*)
(10 min) Assessing root microbiome effects on systemic signaling in crop resilience.
- Marie Louise Bornø (*Interact*)
(10 min) Imaging the rhizosphere.
- Karen Serrano (*InROOT*)
(10 min) Spatially-resolved, single-cell characterization of the plant/microbial interface.

BREAK 1

(8:30 am – 8:45 am USA EST) // (2:30 pm – 2:45 pm Europe CEST)

Speaker Session 4: Synthetic communities: analysis & function
8:45 am – 10:00 am (USA EST) // 2:45 pm – 4:00 pm (Europe CEST)

Session 4 Moderator: Marc Cubeta

- Gijs Selten (*InROOT*)
(10 min) Data-driven SynCom Scouting.
- Manuel Kleiner (*Interact*)
(25 min) Optimization of metaproteomics to investigate plant-microbiota interactions using SynComs.
- Simon Kelly (*InROOT*)
(25 min) Microbiota assembly in *Lotus japonicus* and barley (SynComs for lotus and barley, transcriptome, and time course).

BREAK 2

(10:00 am – 10:15 am USA EST) // (4:00 pm – 4:15 pm Europe CEST)

Day 2 WORKSHOPS

10:15 am – 11:15 am (USA EST) // 4:15 pm – 5:15 pm (Europe CEST)

Workshop 3 (Breakout Room #1): *Metadata entry, organization and analysis using Biolomics and T-BAS*

Workshop 3 Moderator: Bjarne Kjær Ersbøll (*Interact*)

- Turgut Akyol & Stig U. Andersen (Metadata entry & organization in BioLomics) – *InRoot*
- Ignazio Carbone (T-BAS) – *Interact*

Workshop 4 (Breakout Room #2): *Data Integration and Analysis: 2020 sampling campaign*

- Jan Christensen – *Matrix*
Featuring flash-talks from: Tomás Diera (Matrix) and Alex Gobbi (Matrix)

BREAK 3 // End Day 2 for most attendees

(11:15 am–11:30 am USA EST) // (5:15 pm – 5:30 pm Europe CEST)

Steering Committee Meeting with the External Scientific Advisory Board

Wed. June 9, 2021 at 11:30 am – 12:30 pm (USA EST) // 5:30 pm – 6:30 pm (Europe CEST)

Please use the following ZOOM LINK (no pre-registration required):

<https://ncsu.zoom.us/j/98672693132?pwd=YXVXZlJlQk0UzUGFxcTdDbDRrTzZXdz09>

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Thank you for joining us!  
Please visit our website: <https://ccrp.vcl.ncsu.edu/>  
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Registration Information

Please register in advance for each day of this June 8 & 9 2021 CCRP meeting.
(Note the different start times for each day)

Day 1: Register in advance for Tuesday June 8, 2021
(8:00 am – 1:00 pm USA EST / 2 pm – 7:00 pm Europe CEST):

<https://ncsu.zoom.us/meeting/register/tJ0tdOGqrT0sH9ZRksugyDvM6krJ3kdjceG0>

Day 2: Register in advance for Wednesday June 9, 2021
(7:00 am – 11:30 am USA EST / 1 pm – 5:30 pm Europe CEST):

https://ncsu.zoom.us/meeting/register/tJUpdeyrpjoqGdHT7WLMmt_FXaR8TU_gMsIZ

After registering, you will receive a confirmation email containing information about joining the meeting. Please do not share your links with anyone – they are unique to you!

Steering Committee Meeting with the External Scientific Advisory Board

Wed. June 9, 2021 at 11:30 am – 12:30 pm (USA EST) // 5:30 pm – 6:30 pm (Europe CEST)

Please use the following ZOOM LINK (no pre-registration required):

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CCRP Visiting Scholar Program 2021-2022

We are now accepting applications for the 2021-2022 CCRP Visiting Scholar Program. Please complete and submit your application by July 1, 2021. The application with instructions can be found on the CCRP channel in MS-Teams at this [LINK](#).