



MEETING AGENDA

The Plant Microbiota

The Banbury Center, Cold Spring Harbor Laboratory, New York, USA
April 14-17, 2019

This meeting was funded by the **Cold Spring Harbor Laboratory Corporate Sponsor Program, Indigo Ag, Syngenta**, and the **KWS SAAT SE**, with additional funding from **2Bades Foundation**

Organizers:

Jeffery Dangl, University of North Carolina and Howard Hughes Medical Institute;
Paul Schulze-Lefert, Max Planck Institute for Plant Breeding Research;
Julia Vorholt, ETH Zurich

Growing interest in the plant microbiota is being spurred by basic, curiosity-driven research that seeks to understand the principles underlying microbiota assembly and the impact of the microbiota on the plant host. There is also an increasing awareness that knowledge gained can be harnessed for rational bioprospecting and the discovery of agriculturally useful molecules, genes, and inoculants in plant-associated microbes. This Banbury meeting gathered plant and microbial scientists to discuss the latest advances in: (1) microbiota assembly and the plant innate immune system, (2) host colonization and mechanisms of interbacterial communication, (3) metabolic interdependence of the plant host and its associated microbes, (4) nutrient mobilization and nutritional functions provided by root-associated microbes, (5) microbial inter-kingdom interactions and microbiota homeostasis, (6) invasion and persistence in microbial consortia, and (7) commensal functions in pathogen protection.

SUNDAY, APRIL 14

Afternoon Participant arrivals

6:00 pm Reception, dinner

MONDAY, APRIL 15

7:15 am Breakfast at Robertson House



8:30 am Welcoming and Introductory Remarks

Rebecca Leshan, The Banbury Center, Cold Spring Harbor Laboratory
Paul Schulze-Lefert, Max Planck Institute for Plant Breeding Research, Cologne, Germany

8:45 am SESSION 1: Big Picture Microbiomes

Susannah Tringe, DOE Joint Genome Institute, Walnut Creek, USA
Venkatesan Sundaresan, University of California, Davis, USA
Maggie Wagner, University of Kansas, Lawrence, USA
Steven Kembel, University of Quebec at Montreal, Canada
Detlef Weigel, Max Planck Institute, Tübingen, Germany

12:30 pm Luncheon at Robertson House

2:30 pm SESSION 2: Phyllosphere

Julia Vorholt, ETH Zurich, Switzerland
Eric Kemen, University of Tübingen, Germany
Benjamin Wolfe, Tufts University, Medford, USA

6:00 pm Reception, dinner

TUESDAY, APRIL 16

7:15 am Breakfast

8:30 am SESSION 3: Abiotic Stress and the Microbiome

Sarah Lebeis, University of Tennessee, Knoxville, USA
Devin Coleman-Derr, USDA-ARS, Albany (CA), USA
Ashley Shade, Michigan State University, East Lansing, USA

10:45 am SESSION 4: Metabolic Control of Microbiome Function

Klaus Schläppi, University of Bern, Switzerland

12:00 pm Luncheon at Robertson House

2:00 pm SESSION 5: Plant Immune System and the Microbiome

Paulo Teixeira, University of North Carolina, Chapel Hill, USA
Cara Haney, University of British Columbia, Vancouver, Canada
Sheng Yang He, Michigan State University & HHMI, East Lansing, USA



Paul Schulze-Lefert, Max Planck Institute for Plant Breeding Research, Cologne,
Germany

Corné Pieterse, Utrecht University, Utrecht, Netherlands

6:00 pm Reception, dinner

WEDNESDAY, APRIL 17

7:15 am Breakfast

8:30 am **SESSION 6: Multi-Kingdom Interactions**

Britt Koskella, University of California, Berkeley, USA

Linda Kinkel, University of Minnesota, Saint Paul, USA

Stéphane Hacquard, Max Planck Institute for Plant Breeding Research, Cologne,
Germany

10:45 am **SESSION 7: General Discussion and Wrap-Up**

12:00 pm Luncheon at Robertson House

— END OF PROGRAM —



MEETING PARTICIPANTS

Devin Coleman-Derr, USDA-ARS
Jeffery Dangl, University of North Carolina & Howard Hughes Medical Institute
Urs Fischer, KWS SAAT SE
Barry Goldman, Indigo Ag
Stéphane Hacquard, Max Planck Institute for Plant Breeding Research
Cara Haney, University of British Columbia
Sheng Yang He, Michigan State University & Howard Hughes Medical Institute
Steven Kembel, University of Quebec at Montreal
Eric Kemen, University of Tübingen
Linda Kinkel, University of Minnesota
Britt Koskella, University of California, Berkeley
Sarah Lebeis, University of Tennessee
Qingli Liu, Syngenta Crop Protection
Corné Pieterse, Utrecht University
Jos Raaijmakers, Netherlands Institute of Ecology
Klaus Schläppi, University of Bern
Paul Schulze-Lefert, Max Planck Institute for Plant Breeding Research
Ashley Shade, Michigan State University
Venkatesan Sundaresan, University of California, Davis
Paulo Teixeira, University of North Carolina
Susannah Tringe, DOE Joint Genome Institute
Julia Vorholt, ETH Zurich
Maggie Wagner, University of Kansas
Detlef Weigel, Max Planck Institute Tübingen
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