Plant Biologicals Network

PBN annual symposium

13-14 November

Wednesday 13 November

12:00	**Registration and lunch**
13:00	**Welcome and opening address**
13:10	**Opening Keynote Presentation** *How biology-based technologies can contribute to achieving the Sustainable Development Goals* - **Dr. Morven McLean,** Executive Director, ILSI Research Foundation, USA
14:00	**Coffee break**
14:25	**Increased plant resilience to climate change** Chair: **Svend Christensen**, Head of Department, University of Copenhagen ○ *Reducing pest populations by direct and indirect effects using fungal inoculations in horticultural crops* - **Nicolai Vitt Meyling,** Associate Professor, Department of Plant and Environmental Sciences, University of Copenhagen ○ *Practical experiences with biologicals in organic/biodynamic cropping systems* - **Thomas Harttung,** Organic/biodynamic farmer and entrepreneur at Barritskov and Krogerup ○ Selected flash talks: *Mitigation of Salinity Stress by Arbuscular Mycorrhizal Fungi* - **Bhoopander Giri,** University of Delhi *Grow the Perfect Seed - Phenotyping with Isotope Ratio Infrared Spectrometry* – **Søren Dalby**, Thermo Scientific

	ABA-mediated modulation of elevated CO2 on stomatal response to drought - **Shenglan Li,** University of Copenhagen
15:30	**Coffee break** **Poster session 1**
16:15	**How to ensure efficacy of plant biologicals** Chair: **Mette Walter**, Head of section, Danish Technological Institute ○ *Learning the difference – Switching your mindset from classical chemical to microbial products* - **Charlotte Klank**, EMEA Plant Health R&D leader at FMC Corporation ○ *Experiences from efficacy testing of Microbial products and alternative chemistry* - **Lise Nistrup Jørgensen**, Senior Scientist, Department of Agroecology, Aarhus University ○ Selected flash talks: *Soil amendment with C sources promotes P biofertilizer traits of Penicillium aculeatum* - **Beatriz Gómez-Muñoz**, University of Copenhagen *Indications of improved germination of sugarbeet pre-washed and primed with protein-based biostimulants* - **Jolayemi Okanlawon Lekan**, Swedish University of Agricultural Sciences *A structured screening approach for identification of fungal endophytes for Septoria tritici blotch control* - **Meike A. C. Latz**, University of Copenhagen
17:20	**Reception** **Poster session 2**
18:00	**Transport to symposium dinner venue (busses will be arranged)**
18.30	**Symposium dinner** **Vestauranten, DGI-Byen, Tietgensgade 65, 1704 Copenhagen V**
21.00	**Optional bus transport from the restaurant back to the symposium venue**

Thursday 14 November

8:30

Biological products for pest and disease control

Chairs: **Niels Kristian Sørensen**, Director Biological Research, FMC

- *Potato disease resistance and towards development of a plant strengthener* – **Erik Andreasson**, Professor in Plant Protection and Head of the Resistance Biology Unit, Swedish University of Agricultural Sciences
- *From Microbiome Analysis to Commercial Product* - **Marcus Meadows-Smith**,– CEO, BioConsortia
- Selected flash talks:

  Bacteriophages as biocontrol agents in agriculture - **Alexander Byth Carstens**, University of Copenhagen

  Studying B. subtilis *in root colonization of different plant species* - **Christopher Blake**, Technical University of Denmark

  Biological control of Fusarium head blight in wheat using naturally occurring endophytes - **Edward C. Rojas**, University of Copenhagen

9:35 **Coffee break**

10:00

Tomorrow's sustainable agriculture with microbes

Chairs: **Lars Mølbak**, R&D Manager, Chr. Hansen and **Carsten Suhr Jacobsen**, Professor and Head of Department, Aarhus University

Presentation of the Collaborative Crop Resilience Program (CCRP) funded by the Novo Nordisk Foundation.

- *The MATRIX project: Microbiome Assisted Triticum Resilience In X-dimensions* - **Lars Hestbjerg Hansen**, Professor, Department of Plant and Environmental Sciences, University of Copenhagen
- *INTERACT: Decoding the Rhizobiota Interactome for Improved Crop Resilience* - **Mette Haubjerg Nicolaisen**, Associate Professor, Department of Plant and Environmental Sciences, University of Copenhagen
- *The InRoot project of the Collaborative Crop Resilience Program. Molecular Mechanisms and Dynamics of Plant-Microbe Interactions at the Root-Soil Interface* - **Jens Stougaard**, Professor, Department of Molecular Biology and Genetics, Aarhus University
- Selected flash talks:

Arbuscular mycorrhizal symbiosis is negatively regulated by a plant CLE peptide - **Thomas de Bang**, University of Copenhagen

The rule of natural products in belowground interactions between plant species - **Hossein Hazrati**, Aarhus University

Characterization of a Novel Bacillus pumilus Strain as a Plant Growth-Promoting Rhizobacteria - **Asger Ourø Jensen**, University of Copenhagen

11:05 **Coffee break**
Poster session 3

11:50

Integrating biology-based and conventional crop protection

Chairs: **Niels Bjerre**, Agricultural Affairs Manager, Bayer and **Troels Toft**, Sector Director Plants, SEGES

- *Integrating biologicals in a crop protection schedule: robust and cost effective schedules are prerequisites for successful market penetration* - **Jolanda Wijsmuller**, Value Chain, Biologics & Minor Crops Manager, Bayer
- *From pain points to opportunities: Integrating biology-based and conventional crop protection* - **Harry Teicher**, Principal Scientific Consultant, BioScience Solutions
- Selected flash talks:

  Quercetin; as a promising bioactive compound to alter the concentration of pesticides in honey bees - **Hamidreza Ardalani**, Aarhus University

  Combination of biological control agents and fungicides to control diseases in wheat and reducing the risk of fungicide resistance - **Birgit Jensen**, University of Copenhagen

  Quantifying synergistic effects of combining chemical and immune stressors - **Nina Cedergreen**, University of Copenhagen

12:55 **Closing remarks**

13:00 **Lunch grab bag**

Plant Biologicals Network members

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