

## The Nordic-Baltic Plant Phenotyping Network (NBPPN) Annual Conference

**Dates:** November 20–21, 2025

**Location:** Hotel Skansen, Båstad, Sweden

**Participants:** NBPPN members and others working in crop phenotyping, breeding technologies, and agri-data integration.

**Fee:** Free for NBPPN members (travel/accommodation at own expense).

Non-members: 3,500 DKK.

**Organisers:** The NBPPN Steering Committee

### DAY 1: Thursday, November 20, 2025

**09:30–09:45** | Registration & Coffee

#### **09:45–10:00 Welcome by Svend Christensen**

Chair: Svend Christensen, UCPH

#### **10:00–10:45 | Keynote incl. Q&A**

Andreas Hund – ETH, Switzerland

“Field phenomics: research networks gathering big data to understand how yield components are affected by phenology and stress events”

**10:45–11:00** | Coffee Break

**11:00–12:00 | Session 1: Oral Presentations** (15 min talk + 5 min Q&A)

Chair: Kristiina Himanen, University of Helsinki

- Philip Tenel (*Teknologisk Institut, Denmark*): Pre-trial phenotyping and envirotyping in heterogeneous site trials for addressing the differential treatment effects of biostimulants
- Stefano Zanotto (*NMBU, Norway*): exploring the use of UAV time-series data to understand nitrogen dynamic in barley
- Sylvain M. Poque (*University of Helsinki, Finland*): Controlled-Environment Imaging-Based Phenomics for Assessing Drought Resilience in a Faba Bean Germplasm Collection

**12:00–13:00** | Lunch Break

**13:00–13:45 | Keynote incl. 15 min Q&A**

**Chair:** Morten Lillemo, NMBU

Brad Zamft – *Heritable Agriculture*

“Next-Generation Breeding: Integrating In Silico Approaches and New Breeding Technologies for Crop Improvement”

**13:45–15.30 Session 2: Hot Topic: Can we make Baltic- Nordic breeding even more technology driven?**

Kick-off talks:

- Erik Alexandersson (*NNF*): An Introduction to the Novo Nordisk Foundation with a Focus on Agriculture
- Guido van den Ackerveken (*CropXR*): The CropXR breeding approach: towards data- and knowledge-driven design of resilient crops
- Breakout discussions (intro by Erik)
- Group summaries in plenary

**15:30–16:00 | Coffee Break**

**Chair:** Mathias Timmerman Christiansen, Danespo

**16:00–16:30 | Poster Pitch**

**16:30–16:45 | Pitch of locations for Annual Meeting 2026**

**16:45–17:30 | Discussion on Phenomics as a Science – Sahameh Shafiee**

**18:45–21:00 | Conference Dinner**

*Location: Hotel Skansen – Restaurant Sand*

## DAY 2: Friday, November 21, 2025

### 09:00–09:45 | Session 3: Oral Presentations

Chair: Jon Arne Dieseth, Graminor

- Jesper Cairo Westergaard (*UCPH, Denmark*): Using Mergin Maps and QGIS for field data collection (+ hands-on demo with mobile/laptop support)
- Sajeevan Radha Sivarajan (*SLU, Sweden*): Connecting ground signals to satellite insights: Bridging scales in crop phenotyping

**09:45–10:00** | Coffee Break

### 10:00–10:30 | Session 4: Oral Presentations

Chair: Gintaras Brazauskas, LAMMC

- Nikolai Ødegaard, *Graminor, Norway*: UAV in wheat breeding - challenges and possibilities - Insights from Master Thesis
- Mallikarjuna Rao Kovi (*NMBU, Norway*): Integrating Robotics, Phenomics and Genomics for improving Nitrogen Use Efficiency in Perennial Ryegrass

- **10:30–10:45** | Coffee Break

### 10:45–11:45 | Oral presentations

- Andrius Aleliunas (*LAMMC, Lithuania*): Grain Yield Prediction in Spring Wheat Using Multispectral Imaging.
- Panu Korhonen (*LUKE, Finland*): Deep Learning for Image Analysis in Grassland Research – A Case Example: Red Clover Content and Flowering Estimation
- Thomas Bawin, (*UIT, Norway*): Spectral Imaging for Plant Phenotyping in Controlled Environments

**11:45–12:00** | Closing Remarks & Farewell

**12:00–12:45** | Lunch Break

### 12:45–14:45 | Breakout Rooms (Optional)

- 1. Writing group meetings (continuation from 2024)
- 2. Funding ideas (EU or similar) – reviewing upcoming calls, joint proposal drafting