



Preliminary schedule

Virtual Meeting
Resilient Northern Crops Network (NordCrop)
14 – 15 April 2021

Field crops are under pressure due to climate change. Knowledge of crop response to single abiotic stress is often available, but we will focus on the poorly understood effects of multiple stresses to develop more resilient field crops. Global climate change means that our crops are increasingly exposed to drought or waterlogging, heat and elevated CO₂. The network funded by NKJ will investigate how we can exploit new genomic and phenotyping technologies to identify more robust genotypes in key Nordic field crops (wheat, oat, potato and fodder grasses).

Registration free of charge: <https://www.plantlink.se/preliminary-schedule-virtual-nordcrop-meeting-14-15-march/>

For further information contact Carl-Otto Ottosen, coo@food.au.dk

Day 1 April 14: 12.30-16.30

Phenotyping for abiotic climate stresses and yield

- 12.30 Welcome (Carl-Otto Ottosen, Aarhus University (AU))
- 12.40 **Keynote**
Rod Snowdon: Genetics and physiology of yield potential (Justus Liebig University)
- 13.10 Priming for heat tolerance in wheat (Thayna Mendanha, AU)
- 13.30 Image-based detection of fungal pathogen infections in Arabidopsis and application of the method on oat spikelets (Kristiina Himanen, University of Helsinki)
- 13.50 The genetic and physiological basis of yield progress in Norwegians spring wheat (Tomasz Mróz, Norwegian University of Life Science (NMBU))
- 14.10 Magic populations in phenotyping (John Doonan, Aberystwyth University, (AberU))
- 14.30 Grain yield prediction based on multitemporal multispectral UAV imaging (Sahameh Shafiee, NMBU)
- 14.50 3D modelling of ear emergence (Mori Boozandani, AberU)



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15.10-15.30 Break

15.30 Student presentations (5 min each)

16.00 General discussion (to be planned)



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Day 2 April 15 12.30-16.30

Phenotyping for stresses

12.30 Keynote

Olivier Van Aken: Wounding response och and stress tolerance (Lund University)

13.00 Wheat and drought (Anders Carlsson, Swedish Agricultural University (SLU))

13.20 Sorghum (Mulatu Geleta, SLU)

13.40 Modulated chlorophyll fluorescence as sceening tool (Eva Rosenqvist, University of Copenhagen (UCPH))

14.00 Title pending (Hannes Kollist, University of Tartu)

14.20 Physiological responses of tomato to drought, elevated CO₂ and VPD (Shenglan Li, UCPH)

14.40 Multiple stresses and melationin (Rong Zhou, AU)

15.00-15.20 Break

15.20 Wheat and heat (Aakash Chawade, SLU)

15.40 TBD

16.00 Wrap up and general discussion



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