



European
Centre for Advanced
Studies

Lower Saxony – Scotland Joint Forum 2021
23 November 2021
Session II – 1 pm CET
Genome Enabled Biology and Contemporary Agriculture

1. Workshop Organizer

Prof. Dr. Nils Stein, *Georg-August University Göttingen*

Prof. Dr. Robbie Waugh, *Dundee University*

2. Workshop Description

Focusing on barley as an exemplar crop for Scotland and Lower Saxony, the workshop will explore how as a research community we can respond to key issues that are currently impacting crop production including the changing climate, demand for lower inputs, soil health and environmental impact concerns. In particular, we aim to discuss how new large scale genetic, genomic and phenomic data gathered and made available by the academic research community as (formalized) knowledge (e.g. in models) alongside new and open digital technologies can be translated into value in commercial end-use sectors to tackle headline global challenges.

3. Programme

(The times of the programme items are indicated in CET.)

1:00 pm Welcoming Addresses

Prof. Dr. Nils Stein

Prof. Dr. Robbie Waugh

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1:10 pm Session 1 – Short Presentations

Prof. Dr. Reimund Roetter: *Model-aided design of climate-resilient cereal cultivars*

Dr. Joanne Russell: *Understanding and using natural biodiversity*

1:30 pm Q&A and Discussion

2:00 pm Coffee Break

2:10 pm Session 2 – Short Presentations

Prof. Dr. Roy Nielson: *Resilient soils for future-proofing sustainable cereal production*

Prof. Dr. Stefan Siebert: *Crop water response: upscaling from canopy to global scale*

2:30 pm Q&A and Discussion

2:50 pm Summing Up

2:55 pm Closing

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