

# Certificate

Post-Graduate Course in  
**Field-omics and remote sensing -**  
analysis of '-omics' and phenotypic data in  
field trials and controlled environments  
3 ECTS

We herewith certify that

**Chayan Kumar Saha**

has actively participated in course activities and satisfactorily completed  
the final oral exam based on a scientific article.

The overall objective of the course was to give PhD students from different  
subject areas a deeper understanding of challenges and when applying  
molecular biology and proximal/remote sensing to plant field trials.

Content:

- Experimental design for field trials and in controlled environments
- Phenotyping and scoring plant material
- Sampling of plant material
- Issues regarding differences between plants obtained in the field and controlled environments
- Survey of available '-omics' techniques and their suitability for field trials.
- Interpretation and visualization of '-omics' data

The course was given 18-22 June 2017 at Swedish University of Agricultural  
Sciences (SLU) in Alnarp.

Alnarp, 22 June 2017



Erik Alexandersson



Aakash Chawade