
Current Challenges in Plant Breeding: Digital Plant Breeding – Hype or the Way Forward?

3rd annual seminar of the SGPW-SSA working group on plant breeding

Friday, February 1, 2019
ETH Zürich, LEE E101, Leonhardstrasse 21, 8092 Zurich

On behalf of the Swiss Society of Agronomy (SGPW-SSA) working group on plant breeding, we kindly invite you to attend the third working group seminar with the topic “Digital Plant Breeding – Hype or the way forward?”.

This seminar is also part of the ETH lecture “Current Challenges in Plant Breeding”, where we aim to bring together Master and PhD students with national and international experts in plant breeding to discuss current activities, latest achievements and future perspectives of selected topics. Therefore, in the morning, students will give their view on “Sensors and carriers to evaluate breeding nurseries”, “Feature extraction from images or hyperspectral data”, “Target trait for digital plant breeding” and “Utilizing genomic information for genetic gain”.

In addition, we have assembled a selection of very interesting keynote presentations by eminent speakers such as PD Dr. Andreas Hund (ETH Zürich, Switzerland), Prof. Dr. Fred van Eeuwijk (Wageningen University and Research, The Netherlands), Dr. Guy Kol (NRGene, Israel) and Dr. Matthew Perkins (Inari, Cambridge, MA, USA).

Please register before 15.01.2019 under <http://bit.ly/2QGftL>.

We are looking forward to an interesting seminar.

Best regards,

Bruno Studer

Program

09:00 - 09:15	Arrival and registration
09:15 - 09:30	Welcome and introduction Prof. Dr. Bruno Studer, ETH Zürich
	Students' presentations
09:30 - 09:50	Sensors and carriers to evaluate breeding nurseries (tutor Dr. Frank Liebisch)
09:50 - 10:10	Feature extraction from images or hyperspectral data (tutor Jonas Anderegg)
10:10 - 10:30	Target traits for digital plant breeding (tutor Lukas Kronenberg)
10:30 - 10:50	Utilizing genomic information for genetic gain (tutor Dr. Dario Copetti)
10:50 - 11:20	Coffee break
11:20 - 12:05	Digital phenotyping of plant breeding trials – still an art or already science? PD Dr. Andreas Hund, ETH Zürich, Switzerland
12:05 - 12:50	Genotype to phenotype models as a context for phenotyping efforts in plant breeding Prof. Dr. Fred van Eeuwijk, Wageningen University and Research, The Netherlands
12:50 - 14:30	Lunch in the ETH Mensa
14:30 - 15:15	Using haplotype-based diversity analysis to improve breeding efficiency in multiple crops Dr. Guy Kol, NRGene, Israel
15:15 - 16:00	Inari: building the world's first seed foundry Dr. Matthew Perkins, Inari, Cambridge, MA, USA
16:00	Conclusion of the seminar, reception

Registration

Please register before 15.01.2019 under <http://bit.ly/2QGltL>. Registration fee: 40.00 CHF (including coffee break, lunch voucher and reception), to be paid at the registration desk.

Kindly supported by



Swiss Academy of Sciences
Akademie der Naturwissenschaften
Accademia di scienze naturali
Académie des sciences naturelles