



Current Challenges in Plant Breeding: New Plant Breeding Techniques - Definition, Regulation, Potential and Acceptance

7th annual seminar of the SGPW-SSA Working Group on Plant Breeding

Wednesday, January 25, 2023, 09:00 - 17:00
ETH Zurich, LEE E101, Leonhardstrasse 21, 8092 Zurich

On behalf of the SGPW-SSA Working Group on Plant Breeding, we kindly invite you to attend the seventh working group seminar on „New Plant Breeding Techniques (NPBT) - Definition, Regulation, Potential and Acceptance“.

Successful plant breeding has always relied on state-of-the-art technologies to generate, screen and select superior plants. With the rapid technological development in genetics, genomics and molecular biology, but also in bioinformatics and robotics, a range of NPBTs became (and will become) available. These technologies have the potential to further advance plant breeding but bear, as all new technologies do, certain risks and raise certain concerns. How can NPBTs be defined? How are these technologies regulated and assessed for potential risks? Which potential do they have to benefit plant breeding, and what is the acceptance of such technologies in the society?

This seminar addresses these questions. It is also part of the ETH Zurich lecture „Current Challenges in Plant Breeding“, where we aim to bring together MSc and doctoral students with national and international experts in plant breeding to discuss current activities, latest achievements and future perspectives. Therefore, the students will give their view and insights on definition, regulation, potential and acceptance of NBPTs.

In addition, we have assembled a selection of very interesting keynote presentations by eminent speakers such as Urs Niggli (Institute of Agroecology, Switzerland), Cristobal Uauy (John Innes Centre, United Kingdom), Robert Hoffie (IPK Gatersleben, Germany) and Angela Bearth (ETH Zurich, Switzerland).

Please register before 11.01.2023 under <https://sgpw-ssa.ch/de/events/ccpb>.

We are looking forward to an interesting seminar.

Best regards,

Bruno Studer

Program

09:15 - 09:30	Arrival and registration
09:30 - 09:40	Welcome and introduction Bruno Studer, ETH Zurich
09:40 - 10:00	New plant breeding techniques (NPBT) - terms and definitions Karl Bartusch, Jayu Chen, Marc Pérez y Ropero (tutors: Andreas Hund & Roland Kölliker)
10:00 - 10:45	The role of NPBTs for food security and sustainable agriculture Urs Niggli, Institute for Agroecology, Switzerland
10:45 - 11:05	Regulation and risk assessment of NPBTs Julia Hauri, Linda Näpflin, Sham Vera (tutor: Teresa Koller)
11:05 - 11:35	Coffee break
11:35 - 12:20	Bringing NPBTs into the field - the special case of the UK Cristobal Uauy, John Innes Centre, United Kingdom
12:20 - 12:40	Potential of NPBTs to accelerate plant breeding Hanna Blum, Marion Gaillard, Kevin Kaufmann, Alana Schudel (tutor: Chloé Manzanares & Simon Bull)
12:40 - 14:10	Lunch in the ETH Mensa
14:10 - 14:55	Exploiting NPBTs to the benefit of consumers, farmers and the environment Robert Hoffie, IPK Gatersleben, Germany
14:55 - 15:15	Public acceptance of NPBTs Marco Milesi, Luca Realini, Qianhe Zhang (tutor: Angela Bearth)
15:15 - 16:00	New findings on the public perception and acceptance of NPBT products Angela Bearth, ETH Zurich, Switzerland
16:00 -	Conclusion of the seminar, reception

Registration

Please register before 11.01.2023 under <https://sgpw-ssa.ch/de/events/ccpb>. Registration fee: 40.00 CHF (including coffee break, lunch voucher and reception), to be paid at the registration desk.