

## Monday 12th September

12:00 18:00 Registration ([GPS 49.59045121540736, 17.26264760165829](https://gps.49.59045121540736.17.26264760165829))

### OPENING SESSION

- 16:00 16:30 **Welcome by organizers:** *Jeff Cole (EFB), Pavel Banáš (CATRIN UP), Lucie Plíhalová (UP Olomouc), Ivo Frébort (CATRIN UP/EFB), Kirsten Luxbacher (U.S. Embassy Berlin), Regional government representative (ICOK)*
- 16:30 17:15 **OPENING LECTURE: A faba bean pan-genome for advancing sustainable protein security.** [Alan H. Schulman](#) (University of Helsinki, Finland) – introduction by Petr Smýkal (UP Olomouc)
- 17:15 18:00 **PLENARY LECTURE: Applied genomics and green biotech: redefining specialty crop improvement for the future.** [Gary E. Vallad](#) (University of Florida, USA) – introduction by Jana Fischer (U.S. Embassy Prague)
- 18:00 18:10 **Commemoration of Gregor Johann Mendel:** *Jaroslav Doležal (IEB AS CR)*  
**Gregor Mendel – Genius of Genetics:** *presentation of the artwork by Jitka Brůnová Lachmann*
- 18:15 21:00 *Welcome reception (on-site)*

## Tuesday 13th September

### SESSION 1

**CUTTING EDGE PLANT BIOLOGY**, Chair: [Ivo Frébort](#) (CATRIN UP, Czech Republic)

- 09:00 09:30 Keynote lecture: **Engineering brassinosteroid signalling in the plant vasculature: a tactical solution to combat climate change.** [Ana Caño-Delgado](#) (CRAG Barcelona, Spain)
- 09:30 09:45 Flash posters
- 09:45 10:00 Short talk: **Introgression lines as a tool to widen the genetic diversity and to provide climate.** [Petr Smýkal](#) (UP Olomouc, Czech Republic)
- 10:00 10:15 Short talk: **Identification and characterization of novel polyamine oxidase gene family in *Hordeum vulgare* and its reaction to drought.** Francisco Ignacio Jasso-Robles (CATRIN UP, Czech Republic)
- 10:15 10:45 *Coffee break*

### SESSION 2

**GENOME EDITING IN CROPS**, Chair: [Aleš Pečinka](#) (IEB AS CR, Czech Republic)

- 10:45 11:15 Keynote lecture: **Using crop genome dynamics for stress adaptation and the challenges in breeding innovation Europe.** [Etienne Bucher](#) (Botanical Institute, Basel, Switzerland)
- 11:15 11:30 Flash posters
- 11:30 11:45 Short talk: **What's needed to enable plant breeding innovation to contribute to sustainable.** [Petra Jorasch](#) (Euroseeds, Brussels, Belgium)
- 11:45 12:00 Short talk: **An atlas of gene expression during barley grain development.** [Aleš Pečinka](#) (IEB AS CR, Czech Republic)
- 12:00 13:30 *Lunch, networking, poster viewing*

<b>SESSION 3</b>		<b>EMERGING TRENDS IN FOOD BIOTECHNOLOGY</b> , Chair: <a href="#">Wolfram Brück</a> (HES-SO Valais Wallis, Switzerland)
13:30	14:00	Keynote lecture: <b>Future-proof biotechnologies for sustainable dietary transition.</b> <a href="#">Emanuele Zannini</a> (University College Cork, Ireland)
14:00	14:15	Flash posters
14:15	14:30	Short talk: <b>Discovery of antioxidant enzymes in green algae - promising applications in biotech and pharmacy.</b> <a href="#">Marcel Zámocký</a> (IMB SAS Bratislava, Slovakia)
14:30	14:45	Short talk: <b>Blackberry fruit: Differences between wild species and cultivars.</b> <a href="#">Sanja Čavar Zeljković</a> (CATRIN UP, Czech Republic)
14:45	15:15	Coffee break

### PANEL DEBATE

15:15	16:00	<b>WOMEN IN AGRICULTURE</b> Moderator: <a href="#">Ana Caño-Delgado</a> (CRAG Barcelona, Spain) Participants: <b>to be announced</b> , Dominika Sokolová ( <a href="#">Festada</a> )
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### POSTER SESSION

16:00	17:00	Poster viewing (odd numbers) and discussion
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## Wednesday 14th September

<b>SESSION 4</b>		<b>BIOECONOMY AND CIRCULAR ECONOMY</b> , Chair: <a href="#">Eva Cudlinová</a> (University of South Bohemia; 1 <sup>st</sup> Vice-President of the Bioeconomy Platform of the Czech Republic)
09:00	09:30	Keynote lecture: <b>Why is background and definition of Bioeconomy important for a transition to a New Economy.</b> <a href="#">Martin Greimel</a> (BOKU Vienna, Austria)
09:30	09:45	Flash posters
09:45	10:00	Short talk: <b>Contribution of national forest strategy to research and innovation: Forestry accounts for the Bioeconomy.</b> <a href="#">Ratna C. Purwestri</a> (Czech University of Life Sciences Prague)
10:00	10:15	Short talk: <b>A biotechnological approach for CO<sub>2</sub> capture using accelerated weathering of pulp and paper residues.</b> <a href="#">Ayanne De Oliveira Maciel</a> (Luleå University of Technology, Sweden)
10:15	10:45	Coffee break
<b>SESSION 5</b>		<b>INDUSTRY MEETS ACADEMIA</b> , Chair: <a href="#">Esteban Alcalde</a> (Syngenta, Belgium) Short presentations: Pavel Krist ( <a href="#">Zeiss</a> ), Petra Jorasch ( <a href="#">Euroseeds</a> ), Nad'a Koníčková ( <a href="#">Technology centre AS CR</a> )
10:45	11:30	
11:30	12:00	Panel debate of the participants
12:00	13:30	Lunch. networking, poster viewing

<b>SESSION 6</b>		<b>BIOINSPIRED ENERGY CAPTURE AND STORAGE</b> , Chair: <a href="#">Radek Zbořil</a> (CATRIN UP, Czech Republic)
13:30	14:00	Keynote lecture: <b>to be announced</b> (Catalan Institute of Nanoscience and Nanotechnology, Barcelona, Spain)
14:00	14:15	Short talk: <b>Flax-derived carbon: A competitive electrode material for electrochemical-double layer.</b> <a href="#">Petr Jakubec</a> (CATRIN UP, Czech Republic)
14:15	14:30	Short talk: <b>Activated carbon-sulfur composite derived from “Posidonia oceanica” as an effective cathode for Lithium-Sulfur batteries.</b> <a href="#">Iosif Tantis</a> (CATRIN UP, Czech Republic)
14:30	14:45	Short talk: <b>Sustainable organic ultrahigh-performing anode for Li-ion storage.</b> <a href="#">Ievgen Obraztsov</a> (CATRIN UP, Czech Republic)
14:45	15:15	Coffee break

## PANEL DEBATE

15:15	16:00	<b>SUSTAINABILITY IN AGRICULTURE AND FOOD SYSTEMS</b> Moderator: <a href="#">Kirsten Luxbacher</a> (Agricultural Attaché, U.S. Embassy Berlin) Participants: Lydia Ugena ( <a href="#">Tradecorp International</a> ), Michal Netolický ( <a href="#">Flenexa</a> ), Gary E. Vallad ( <a href="#">University of Florida</a> )
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## POSTER SESSION

16:00	17:00	Poster viewing (even numbers) and discussion
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## NETWORKING EVENT

18:00	21:00	Campus Holice, networking and visit to CATRIN facilities ( <a href="#">GPS 49.57477123335133, 17.282198781408468</a> )
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## Thursday 15th September

<b>SESSION 7</b>		<b>GREEN DEAL</b> , Chair: <a href="#">Michaela Holecová</a> (CATRIN UP, Czech Republic)
09:00	09:30	Keynote lecture: <b>CO<sub>2</sub> Czech Solution</b> , <a href="#">Leoš Gál</a> (CTP Biofuels, Prague, Czech Republic)
09:30	09:45	Flash posters
09:45	10:00	Short talk: <b>BIOTOOL, the innovative research project for the study of biostimulant development and water use efficiency.</b> <a href="#">Lydia Ugena</a> (Tradecorp International, Spain)
10:00	10:15	Short talk: <b>Bioinspired graphenes for energy storage and catalysis.</b> <a href="#">Aristides Bakandritsos</a> (CATRIN UP, Czech Republic)
10:15	10:45	Coffee break

## CLOSING SESSION

10:45	11:30	<b>PLENARY LECTURE: Towards a climate effective bioeconomy- Using precision synthetic biotechnology tools for conversion of CO<sub>2</sub> and chemically complex biomass to sustainable platform chemicals and material entities.</b> <a href="#">Thomas Brück</a> (Technical University of Munich, Germany) – introduction by Anne Glumm and Filip Rambousek (Science Affairs Department, German Embassy Prague)
11:30	12:00	<b>Closing remarks:</b> Ivo Frébort (CATRIN UP/EFB), Jeff Cole (EFB)