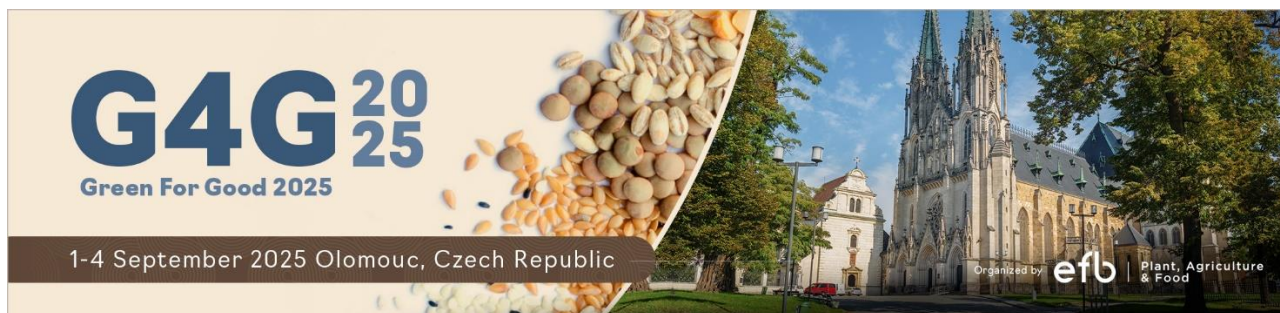




<https://www.efbiotechnology.org/g4g>

Monday 1st September

12:00 18:00 Registration: [The Arts Centre of Palacký University Olomouc](#)
(GPS 49.595260, 17.255508)

OPENING SESSION

16:00 16:30 **Welcome by organizers:** [Ivo Frébort](#) (CATRIN UP/EFB), [Jaroslav Doležel](#)
(IEB ASCR/TANGENC Project), et al.

16:30 17:15 **OPENING LECTURE: Bioengineering for future crops,** [Tomáš Čermák](#)
([Ball Horticultural Company](#), USA)

17:15 18:00 **PLENARY LECTURE: Towards the functional analysis of barley and its
wild relatives,** [Aleš Pečinka](#), (IEB ASCR, Czechia)

18:00 21:00 Welcome reception (on-site)

Tuesday 2nd September

SESSION 1

INNOVATIVE PLANT BREEDING, Chair: [Jaroslav Doležal](#) (IEB ASCR, Czechia)

09:00 09:30 Keynote lecture: **Optimizing canopy photosynthesis in barley: identifying optimal allelic variants within the [BEST-CROP project](#)**, [Paolo Pesaresi](#) (University of Milan, Italy)

09:30 09:45 Flash talks **Group 1**

09:45 10:00 Short talk: **Widespread horizontal gene transfer in Hordeum**, [Marek Szecówka](#), (IEB ASCR, Czechia)

10:00 10:15 Short talk: **What's broken needs fixing: *in-vivo* analysis of DNA repair in plants using microirradiation and time-lapse imaging techniques**, [Michal Franek](#) (CEITEC, Czechia)

10:15 10:45 *Coffee break*

SESSION 2

DISEASE AND PEST SHIFTS, Chair: [Gary Vallad](#) (University of Florida, USA)

10:45 11:15 Keynote lecture: **Early blight disease - new global threats with natural breeding solutions**, [Remco Stam](#) (Kiel University, Germany)

11:15 11:30 Flash talks **Group 2**

11:30 11:45 Short talk: **Suck it up! A new spin on bioaerosol collection for tracking plant pathogens**, [Gary Vallad](#) (University of Florida, USA)

11:45 12:00 Short talk: **Effect of 1,3-diaminopropane priming on somatic memory, photosynthesis, and stomatal dynamics under abiotic and biotic stress**, [Francisco Ignacio Jasso Robles](#) (CATRIN UP, Czechia)

12:00 13:30 *Lunch, networking, poster viewing*

SESSION 3

BIOLOGICALS IN AGRICULTURE, Chair: [Sebastian Wendeborn](#) (FHNW, Switzerland)

13:30 14:00 Keynote lecture: **Priming technologies for sustainable agriculture**, [Vasileios Fotopoulos](#) (Cyprus University of Technology)

14:00 14:15 Flash talks **Group3**

14:15 14:30 Short talk: **Training soil microbiomes for sustainable agriculture**, [Adam Ossowski](#) (University of Malaga, Spain)

14:30 14:45 Short talk: **Elevated cytokinin levels can increase thermotolerance of rice plants**, [Sylva Přerostová](#) (IEB ASCR, Czechia)

14:45 15:15 *Coffee break*

POSTER SESSION

15:15 16:30 Poster viewing (odd numbers) and discussion

THE EXHIBITION SUSTAINABILITY & CIVILISATION (<https://medialogue.cz/expositions/103>)

16:30 17:30 *Guided walk, The Upper Square in Olomouc* ([GPS 49.594032, 17.251519](#))

Wednesday 3rd September

SESSION 4

INDUSTRY MEETS ACADEMIA I – BIOTECHNOLOGICAL

SOLUTIONS FOR SMART AGRICULTURE, Chair: [Riccardo Aversano](#) (University of Naples, Italy)

- 09:00 09:30 Keynote lecture: **CRISPRing barley for sustainable beer production**, [Goetz Hensel](#) (HHU Düsseldorf, Germany)
- 09:30 09:45 Short talk: **Sunlit insights: transferring hyperspectral imaging from lab to field**, [Ivan Kashkan](#) (*Photon System Instruments*, Czechia), **GOLD SPONSOR**
- 09:45 10:00 Short talk: **From algae to crops: tracing gene regulatory elements in plant genomes with GOLEM**, [Petra Procházková Schrumpfová](#) (Masaryk University, Czechia)
- 10:00 10:15 Short talk: **Bacterial membranes for smart agriculture**, [Sagar Sanjay Arya](#) (CATRIN UP, Czechia)
- 10:15 10:45 Coffee break

SESSION 5

INDUSTRY MEETS ACADEMIA II – EU REGULATION OF NEW GENOMIC TECHNIQUES, Chair: [Goetz Hensel](#) (HHU Düsseldorf, Germany)

- 10:45 11:15 Keynote lecture: **EU-SAGE contribution in the current development on the regulation on plants obtained by certain new genomic techniques**, [Oana Dima](#) (EU-SAGE, Belgium)
- 11:15 11:30 Short talk: **Public perception of plant breeding techniques for the sustainable production of feed and food in the Czech Republic**, [Ivo Frébort](#) (CATRIN UP, Czechia)
- 11:30 12:00 Panel debate of the participants
- 12:00 13:30 Lunch. networking, poster viewing

SESSION 6

INDUSTRY MEETS ACADEMIA III - INNOVATIONS IN INDOOR FARMING - ENHANCING AGRICULTURAL EFFICIENCY, Chair: [Lydia Ugena](#) (Rovensa Next, Spain)

- 13:30 14:00 Keynote lecture: **From challenges to solutions: innovative strategies in agriculture**, [Camila Levy](#) (*Rovensa Next*, Spain), **SILVER SPONSOR**
- 14:00 14:10 Short talk: **Presentation of local hi-tech greenhouse growers**, [Tereza Schlattauerová](#) (*AGRO Haná*, Czechia)
- 14:10 14:20 Short talk: **Presentation of local Cannabis growers**, [Adam Nastoupil](#) (Geschur Medical, Czechia)
- 14:20 14:35 Short talk: **Soil as a living system: advancing agroecological resilience with LANDLIFE**, [Cristina Sudiro](#) (*Landlab*, Italy)
- 14:35 14:50 Short talk: **Opportunities for Agro-Food sciences in Horizon Europe programme**, [Nad'a Koníčková](#) (Technology Centre Prague, Czechia)
- 14:50 15:20 Coffee break

POSTER SESSION

- 15:20 17:00 Poster viewing (even numbers) and discussion
- 18:00 21:00 Networking with refreshments (on-site)

Thursday 4th September

SESSION 7

WASTE UTILISATION, Chair: [Wolfram Brück](#) (HES-SO Valais Wallis, Switzerland)

09:00	09:30	Keynote lecture: VALUABLE - Valorisation of fungal biomass using novel enzymatic technology , Michael Paper (Technical University of Munich, Germany)
09:30	09:45	Short talk: Precision fermentation of agro-industrial by-products , Wolfram Brück (HES-SO Valais Wallis, Switzerland)
09:45	10:00	Short talk: Recycling Annurca apple peel through plant cell cultures for functional food applications , Carmen Laezza (University of Naples Federico II / Immunoveg s.r.l., Italy)
10:00	10:30	Coffee break

AGRICULTURAL CROPS FOR THE 21ST CENTURY (German Embassy Highlight Event)

Chair: [Filip Rambousek](#) (German Embassy Prague)

10:30	11:15	Keynote lecture: How can we improve the acclimation capacity of plants to environment and climate change? Karin Krupinska (Kiel University)
11:15	12:00	Panel debate with invited guests: Aleš Pečinka , (IEB ASCR, Czechia), Gary Vallad (University of Florida, USA)

CLOSING SESSION

12:00	12:30	Closing remarks
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