



Program

SYMPOSIUM

AGROBIODIVERSITY ALONG THE VALUE CHAIN

May 20 - May 22 2025



Tuesday 20-5-2025

- 8h30 Registration
- 9h30 **Welcome and Introduction**, Dr. Josep Usall (General Director IRTA) and Prof. Geert Haesaert (Chairman, Ghent University)
- 9h45 **Keynote**: dr. Christian Schöb (University Rey Juan Carlos) 'Ecological mechanisms underlying the benefits of diversity in annual crop systems'
- 10h30 **Keynote**: Prof. dr. Roberto Papa (Università Politecnica delle Marche), 'Participatory science and agroecological genomics for agrobiodiversity conservation and crop improvement'
- 11h15 Coffee break
- 11h45 **Keynote**: Ms. Teresa Borelli (Alliance Bioversity-CIAT, Italy): 'Agrobiodiversity and Value Chains'
- 12h30 Lunch
- 13h30 **Session 1 - Genetics: How they shape agrobiodiversity?**
Oral presentations
Hulless barley accessions as a pre-breeding resource for healthy food barley for Europe, E. Dickin (UK)
Allele mining in the diverse natural populations of minor and major crops, M. Valárik (Czech Republic)
Is climate change boosting cereal productivity while hindering legume yields in Europe? M. S. Lopes (Spain)
A basis for arabinoxylan-targeted breeding of triticale (×Triticosecale Wittmack), M. C. Piro (Belgium)

Flash talks (about poster)
Can cleistogamy contribute to drought stress tolerance in oats?, S. Schurack (Germany)
Diversity of wild Lactuca germplasm in North America and their exploitation, A. Lebeda (Czech Republic)
Wild Lactuca serriola (prickly lettuce) diversity and richness for lettuce breeding, A. Lebeda (Czech Republic)
Wild oat species as a source of rust resistance genes for cultivated oats, C. P. Wight (Canada)
- 15h30 Coffee break

16h00 **Session 2 - Food and feed technology, drivers of change on agrobiodiversity**

Oral presentations

Debittering and optimization of lupin liquefaction for subsequent spray drying, M. Piella-Rifà (Spain)

Development of a high moisture extrudate with fibre-like structure based on fava bean protein concentrate, P. Gou (Spain)

A poor man's calibration curve for analysing vicine and convicine levels in faba bean, R. Dubey (Belgium)

Enhancing gluten-free bread quality with hydrothermally treated legume proteins, T. Dapčević-Hadnadev (Serbia)

Flash talks (about poster)

Innovative plant-based drinks: physical, microbial, and sensory properties, A. Dantas (Spain)

Biochemical perspectives on agrobiodiversity: unlocking minor crops potentials, D. Emide (Italy)

Orphan crops as protein sources for a ready-to-heat hybrid meat product, F. Sánchez-Molinero (Spain)

17h30 **Field visit – Food lab visit**

Wednesday 21-5-2025

8h30 **Session 3 - The impact of cropping systems on agrobiodiversity**

Oral presentations

Provisioning services of triticale–faba bean intercropping in different climates, R. Zustovi (Belgium)

The effect of mixed intercropping of faba bean and triticale on the nitrogen balance in the field, G. Verlinden (Belgium)

In-depth evaluation of provisioning ecosystem services in diverse pulses-oats mixed cropping systems, Y. Schlup (Switzerland)

Impact of nitrogen and planting patterns on oat-faba bean intercropping, T. S. T. Tanaka (Denmark)

The non-nitrogen effect of legumes, I. Speeckaert (Belgium)

Flash talks (about poster)

Oat intercropping: Addressing key challenges in pea production sustainably, A. Roberts (UK)

Stripcropping of faba beans: enhancing food safety in biodiversity-positive systems, S. Kalli (The Netherlands)

Landscape complexity effects on biodiversity in rice agroecosystems, G. Cambero-Conejroa (Spain)

10h30 Coffee break

11h00 **Session 4 - Valuing ecosystem services related to agrobiodiversity**

Oral presentations

The trade-offs of using annual plant communities as field margins to deliver single or multifunctional ecosystem services in both the UK and Serbia, T. Jenkins (UK)

Impact of climate change mitigation strategies in rice farming on biodiversity and agroecosystem multifunctionality, S. Echeverría-Progulakis (Spain)

A review on Life Cycle Assessment methods to address ecosystem services provided by legumes, S. Cimarelli (Italy)

Legume residue amendments: Evaluating nitrogen dynamics and plant growth, R.D.C. Duarte (Portugal)

12h45 Lunch

- 13h45 **Session 5 - Agrobiodiversity: the challenges and opportunities for socio-economic sciences and for systemic approaches**
Oral presentations
Agrobiodiversity: Integrating genetic insights and ecosystem services for socio-economic resilience, Z. Linhart (Czech Republic)
From consumer acceptance to co-construction of the market for agrobiodiversity, Y. Chiffolleau (France)
Citizens' attitudes towards legumes environmental mission, K. Mattas (Greece)
From waste to resource: Transforming plant-based drink by-products into fibre-based packaging materials, F. Vilaseca (Spain)
- 15h30 Coffee break
- 16h00 **Session 6 - The impact of cropping systems on agrobiodiversity**
Oral presentations
CABAN: The use of bankerplants to recruit natural enemies in organic cabbage crops, B. Vanthournout (Belgium)
Optimisation of yellow pea production in Flanders, Belgium, J. Claeys (Belgium)
Evaluating the nitrogen budget in a buckwheat-faba bean intercropping system, R. Gislum (Denmark)
*Field bean (*Vicia faba* L.) to spring barley (*Hordeum vulgare* L.) production in Scotland: a life cycle assessment, P.P.M. Iannetta (Portugal)*
- Flash talks (about poster)
Designing arable cropping systems for multiple benefits: the importance of long-term perspectives, P.P.M. Iannetta (Portugal)
Landscape and water management effect on rice biodiversity and pest control, A. Muñoz-Escribano, (Spain)
Effects of mulching time of flower strips on insect biodiversity in agricultural areas, T. Theis (Luxemburg)
Functional diversity assessments in Swiss common bean production, C. Schouten (Switzerland)
- 18h00 Visit and **conference dinner** in Lleida

Thursday 22-5-2025

- 8h30 **Session 7 - Genetics: How they shape agrobiodiversity?**
Oral presentations
*Yield potential of buckwheat (*Fagopyrum* sp.) collection in Serbia, V. Sikora (Serbia)*
Autumn seeding of spring oats to improve yield and quality, C. J Howarth (UK)
Evaluating production performance and co-growth dynamics of hull-less barley intercropped with lentils in Switzerland, F. Carmenati (Switzerland)
- Flash talks (about poster)
Genomic footprint of oat adaptation to Mediterranean climates: a landscape genomics approach, B. Rojas-Panadero (Spain)
Phenotypic diversity of the lupin collection in agroecological conditions of Serbia, A. Dolapčev Rakić (Serbia)
High-throughput phenotyping of buckwheat and sorghum flowering and panicle emergence dynamics using RGB-UAV technology, F. Fania (Spain)
Advanced technology in wheat breeding, L.A. Minasbekyan (Republic of Armenia)
*Genomic dissection of productivity, lodging and morpho-physiological traits in *Eragrostis tef* under contrasting water availabilities, M. Demelie Alemu (Ethiopia)*
- 10h30 Coffee break

11h00 **Session 8 – Flash talks (about posters) – Mixed session**

Flash talks

Pollinators preferences for different plant communities in agroecosystems, Ž. Milovac (Serbia)

FAB4Farming: Role of functional agrobiodiversity for sustainable farming, F. Dehon (Belgium)

Fusarium infection of cereals in mixed cropping with lentils and lupins, P. von Nathusius (Switzerland)

Spring oat and hull-less barley-pea intercropping potentials under Pannonian climate, R. Jevtić (Serbia)

Seed protein content of spring oat and hull-less barley-pea intercrops in Serbia, V. Župunski (Serbia)

Cereal-Legume diversification for enhancing sustainability of cereal systems in Mediterranean environments, W. Sassi (Spain)

Pea vs. Triticale as preceding crops for bread wheat production: effect on yield, phenology and UAV-based measures, A. Gracia-Romero (Spain)

Effects of cereal-legume cropping systems on soil fertility in extreme weather conditions, V. Aćin (Serbia)

The benefits and challenges of cover cropping in a Mediterranean rice system, M. Catala-Forner (Spain)

Assessment of mixed intercropping performance using existing crop indices, R. Zustovi (Belgium)

12h00 **Closing session**

13h00 End

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