

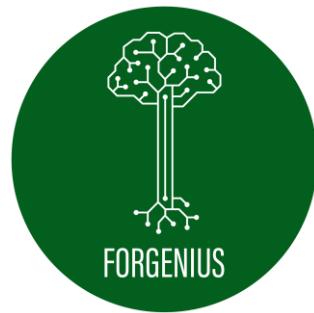
Integrative Diversity of Forest Ecosystems

EVOLTREE-FORGENIUS Conference

18 – 21 November 2025

CSIC, Madrid, Spain

PhotoProgram



Short program



Session 1 - New Tools for Science to Reach practice

Tuesday 18 November 13:30-17:00

Chair: Mari Rusanen, Natural Resources Institute Finland (Luke), Helsinki, Finland



Oral presentations

14:30 **Keynote - David O'Brien**
Bridging the gaps between science, policy and practice



The European Information System on Forest Genetic Resources (EUFGIS): A transnational tool for genetic conservation and policy support



15:45

van Moorsel Sofia

Using a planted tree biodiversity experiment to validate remote sensing of tree species



16:30

Neophytou Charalambos

Assisted Gene Flow for climate-smart forests: the gap between research and policy in Europe



16:45

Chludil David

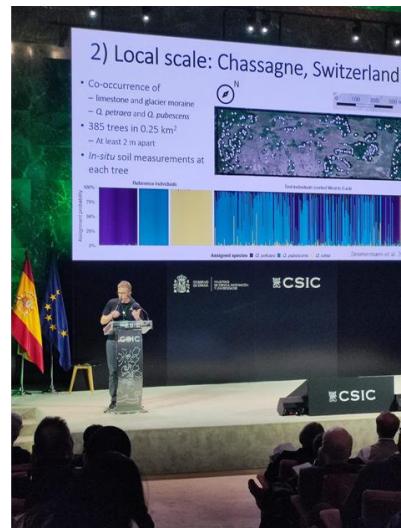
Pollen-based assisted migration



17:00

Rellstab Christian

Lifting borders: The potential role of hybridization and adaptive introgression in drought resilience of mixed stands of European white oaks (*Quercus* spp.)



17:15

Blanc-Jolivet Céline

How can genomic data be useful for the timber market?



17:30

Gugerli Felix

Multifaceted tools for reaching out to conservation practitioners through teaching, infographics, and visualization of data on genetic diversity



17:45

Flash Poster session



Session 2 - Forest Adaptation: Improving Resilience to Biotic and Abiotic Pressures

Wednesday 19 November 09:00-13:00

Chair: Marcela van Loo, Austrian Research Centre for Forests, Vienna, Austria



Oral presentations

9:00

Keynote - Silvia Matesanz

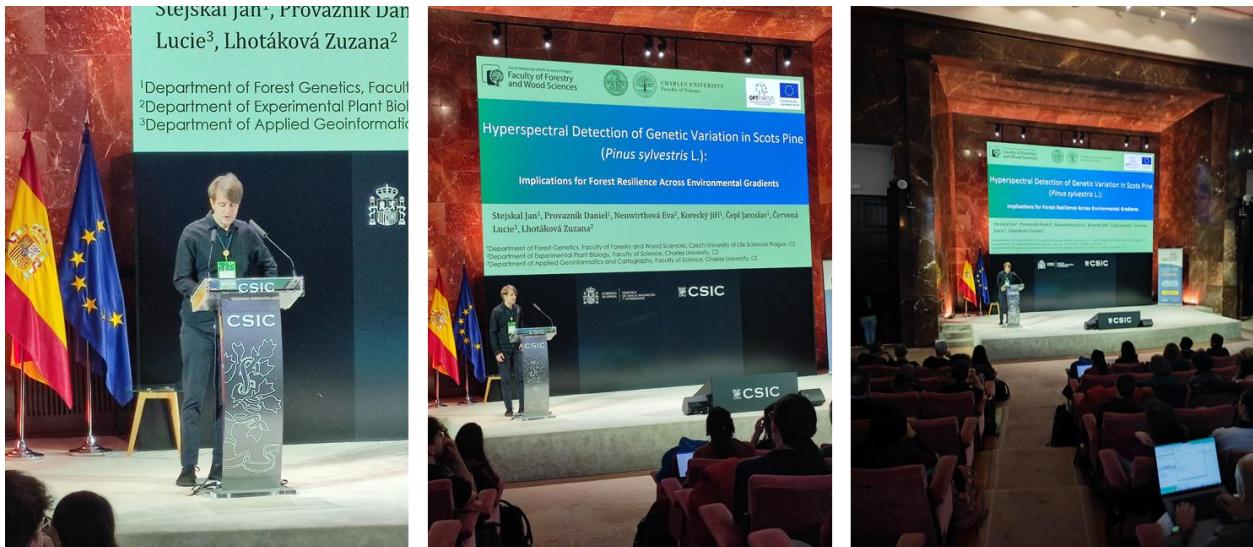
Phenotypic plasticity and adaptive evolution in Mediterranean gypsum endemics: insights into climate change response



09:45

Stejskal Jan

Hyperspectral detection of genetic variation in Scots pine (*Pinus sylvestris* L.): implications for forest resilience across environmental gradients



10:00

Muhammad Ahmad

Natural variation in drought sensitivity and associated metabolic adaptations in European black pine (*Pinus nigra* Arnold s.l.): A step toward integrated provenance selection



10:15

Rezaie Negar

Does intra-population genetic variability enhance productivity and drought resistance in silver fir?



10:30

Ramires Marcelo

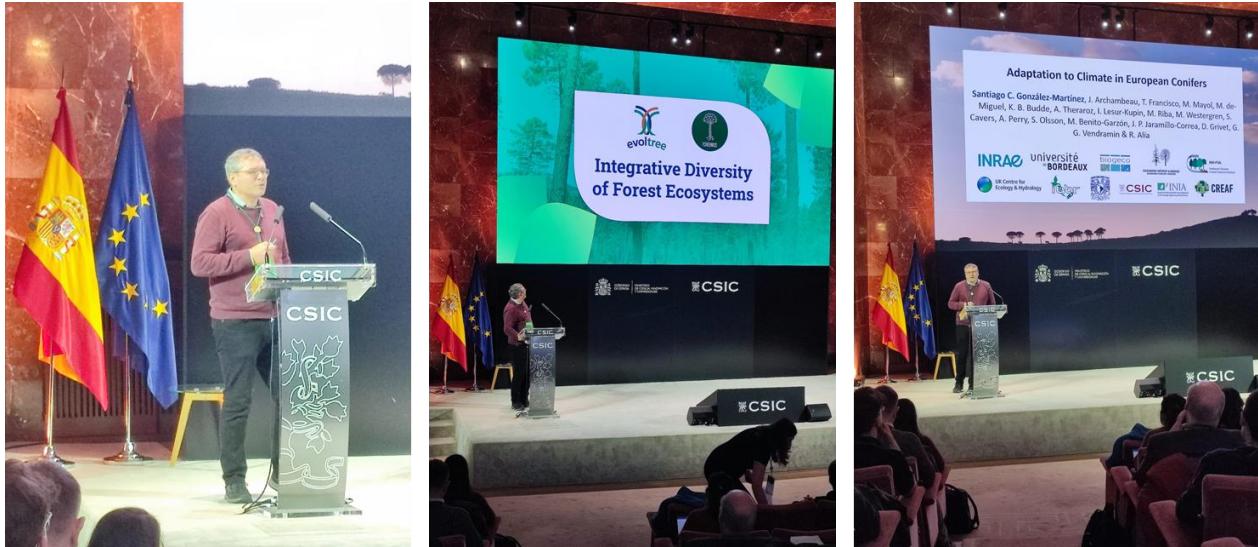
Mimicking bark beetle attacks: field and phytotron insights into Norway spruce defense responses



11:15

González-Martínez Santiago

Adaptation to Climate in European Conifers: Lessons Learned



11:30

David-Schwartz Rakefet

Leveraging interspecific hybridization for drought adaptation in forest trees



11:45

Garibay-Hernández Adriana

Analysis of in situ performance of the European Beech (*Fagus sylvatica* L.) through the lens of leaf proteomics



12:00

Budde Katharina

Loss of genetic diversity and signs of selection in response to ash dieback in natural populations of *Fraxinus excelsior*



12:15

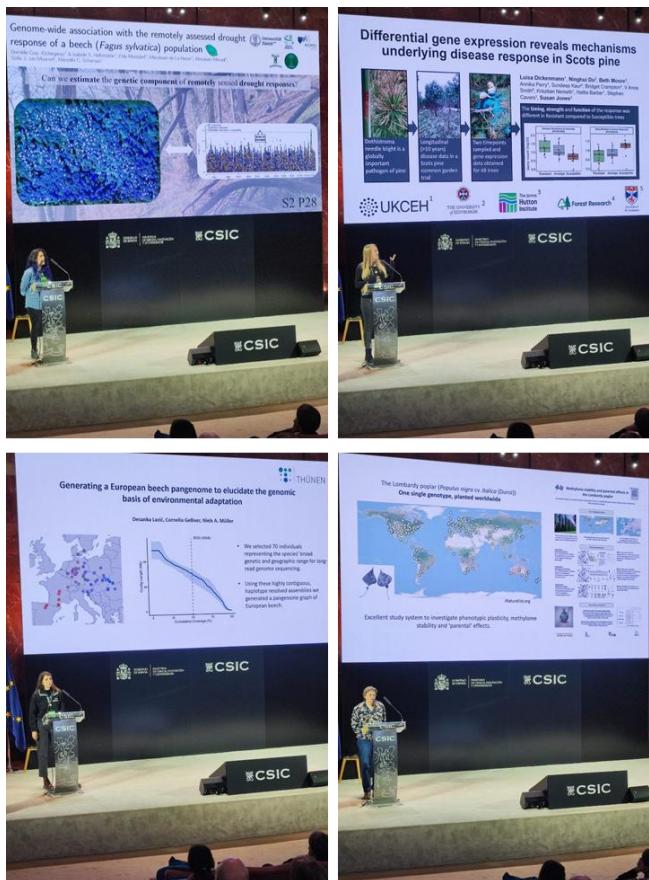
Kremer Antoine - *online*

Temporal genetic changes and evolutionary rates at contemporary timeframes in oaks



12:30

Flash Poster session



Session 3 - Navigating Multiple Global Change Pressures: The Role of Phenotypic Variability

Thursday 20 November 09:00-13:00

Chair: Maurizio Mencuccini, Center for Ecological Research and Forestry Application – CREAf, Barcelona, Spain



Oral presentations

9:00

Keynote - Mantova Marylou

In the era of change: when genetics, physiology and modelling collide for more resilient forests



09:45

Ramirez-Valiente Jose Alberto

Plastic and evolutionary responses in hydraulic traits in a context of global change



10:00

Tobias Bruegmann

Ecophysiology meets molecular physiology and genetics: drought stress experiment with four European beech provenances



10:15

Aida Solé Medina

Genetic architecture and selection across populations and sexes in *Populus nigra*



10:30

Thomas Hay

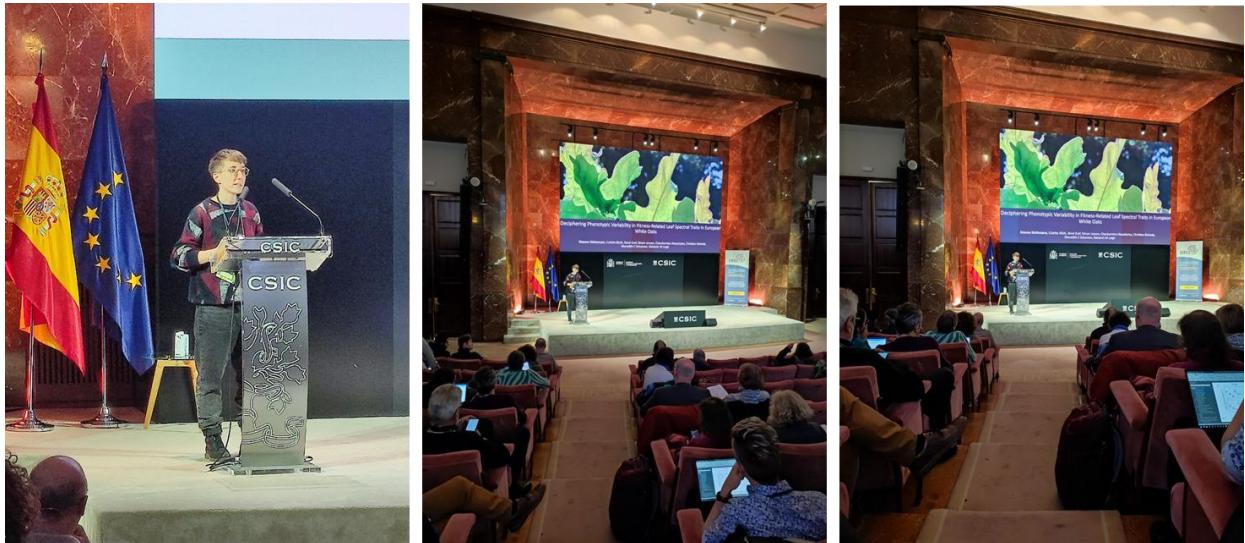
Architectural phenotyping of spruce trees based on TLS and QSMs



11:15

McNamara Simone

Deciphering phenotypic variability in fitness-related leaf spectral traits in European white oaks



11:30

Rozenberg Philippe

From Annual Rings to Adaptive Response: Quantifying Phenotypic Plasticity in Douglas-fir



11:45

Belmokhtar Nassim

The use of Near Infrared Spectroscopy for high-throughput characterization of four European Forest Genetic Conservation Units



12:00

Maurizio Mencuccini

Environmental and genetic signals in continental scale variability in functional traits and growth of European trees



12:15

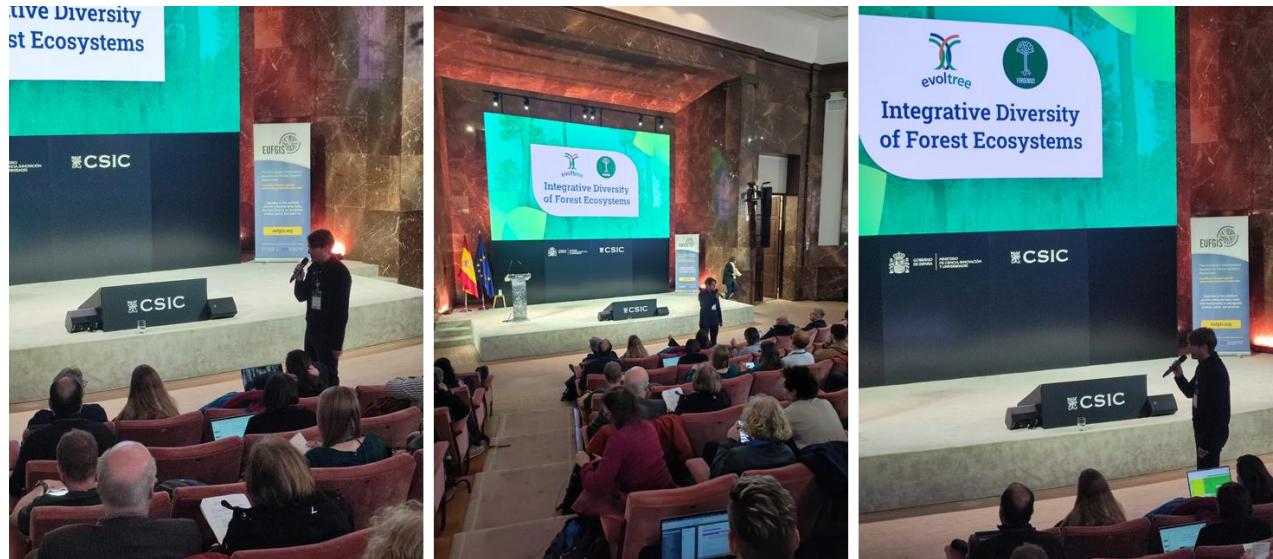
Flash Poster session



Session 4 - Breeding for Resilience: Integrating Novel Phenotyping & Genomics for Urgent Adaptive Solutions

Thursday 20 November 14:00-17:00

Chair: Jan Stejskal, Czech University of Life Sciences Prague, Czech Republic



Oral presentations

14:00

Keynote - Fikret Isik

Tree Breeding in the Age of Genomics for Climate Change: Challenges and Opportunities



14:45

Carlos Trujillo

Harnessing High-Throughput Phenotyping and Metabolomics to Reveal Intraspecific Variation in Drought Sensitivity of Norway Spruce (*Picea abies* (L.) H. Karst.) for Climate-Resilient Forestry



15:00

Hayatgheibi Haleh

Are fast growth and drought tolerance two opposed properties in conifers?
Scots pine case



15:15

Soto Álvaro

Use of natural hybrids for *Q. suber* and *Q. ilex/Q. rotundifolia* breeding



15:30

Chuchlík Jiří

From Subjective to Objective Bud-burst Assessment: CNN-Assisted RGB Imaging in Norway Spruce Seed Orchard



15:45

Milan Lstibůrek

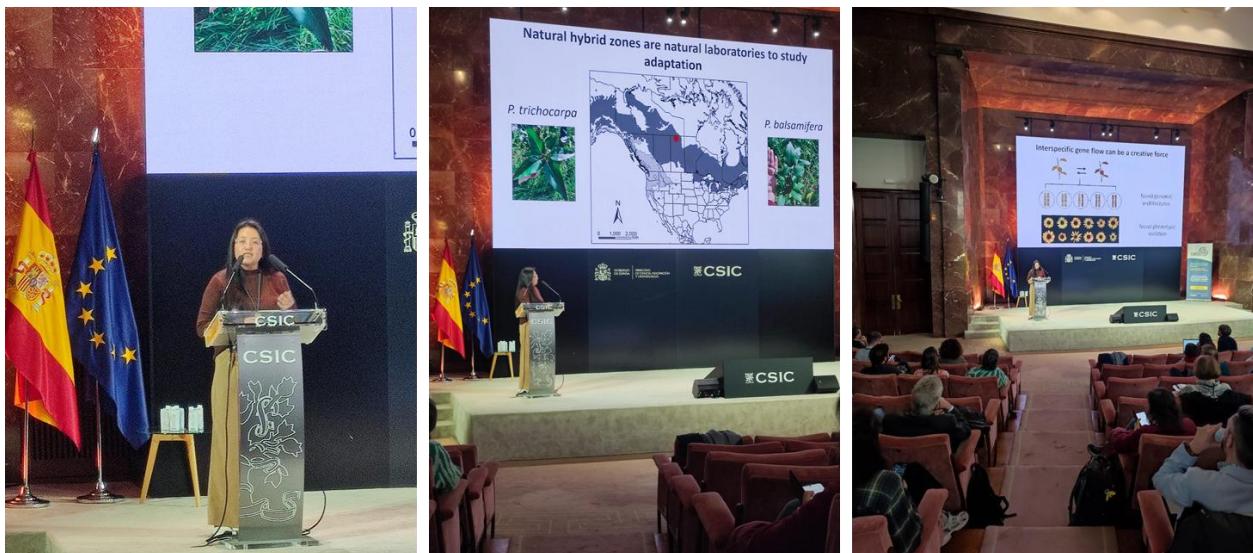
A dynamic breeding framework for bridging local adaptation and assisted migration



16:30

Zavala-Paez Michelle

The role of climate and interspecific gene flow in stomatal evolution across a *Populus* hybrid zone



16:45

Sagariya Christi

Genotyping error and its consequences for heritability estimation



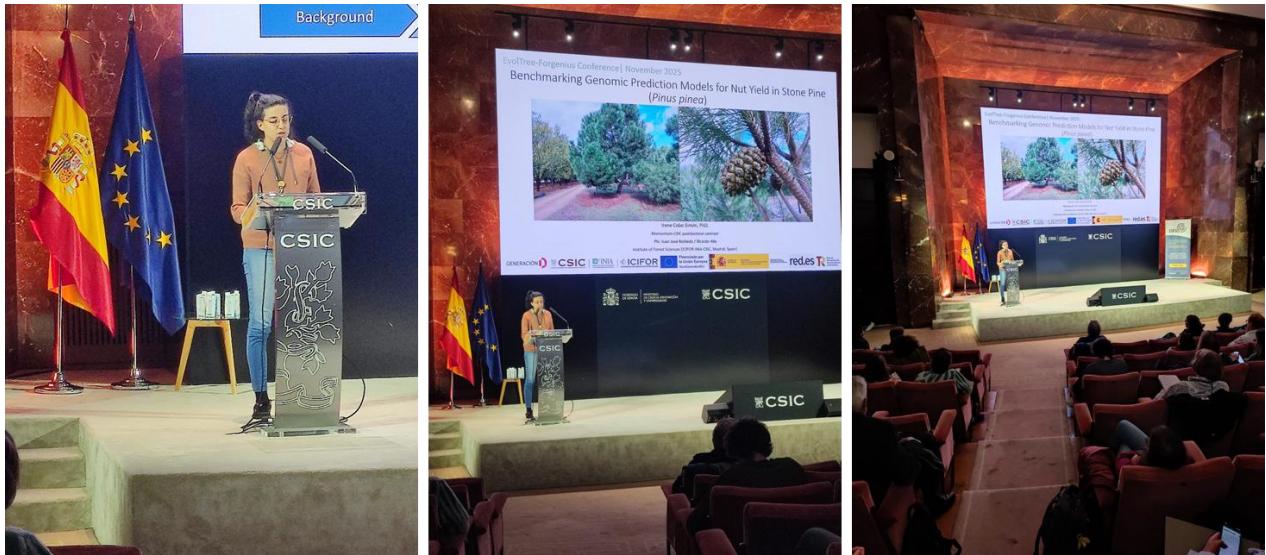
17:00

Chano Victor

Genome-wide genotyping and epigenotyping strongly correlated in Norway spruce breeding material



17:15 Irene Cobo-Simón. Benchmarking Genomic Selection Methods for Nut Yield in Stone Pine (*Pinus pinea*)



17:30 Flash Poster session



Session 5 - Prioritising forest conservation through genetic diversity

Friday 21 November 09:00-13:00

Chair: Giovanni Giuseppe Vendramin, Institute of Biosciences and BioResources, National Research Council of Italy, Florence, Italy



Oral presentations

09:00

Keynote - Victoria Sork

Genetic and genomic strategies for conservation of natural populations of California oaks



09:45

Fady Bruno

Native trees of the Mediterranean region: distribution, diversity and conservation challenges



10:00

Kravanja Marija

Does genetic diversity underpin forest resilience?



10:15

Farsakoglou Anna-Maria

Can we detect genomic drivers of performance in natural conifer tree populations?



10:30

Vajana Elia

Uncovering the genetic origin and diversity of Mediterranean pine forests in the Italian peninsula



11:15

Olsson Sanna

Tracking forest material: Assessing the impact of managed materials on genetic diversity in Spanish forest trees using National Forest Inventory



11:45

Robledo-Arnuncio Juan J

Using genotypic data for monitoring recent and contemporary seed and pollen migration and their environmental determinants



12:00

McEvoy Susan

Site Frequency Spectrum-based Inference of Demography and Fitness Effects as a Conservation Metric



12:15

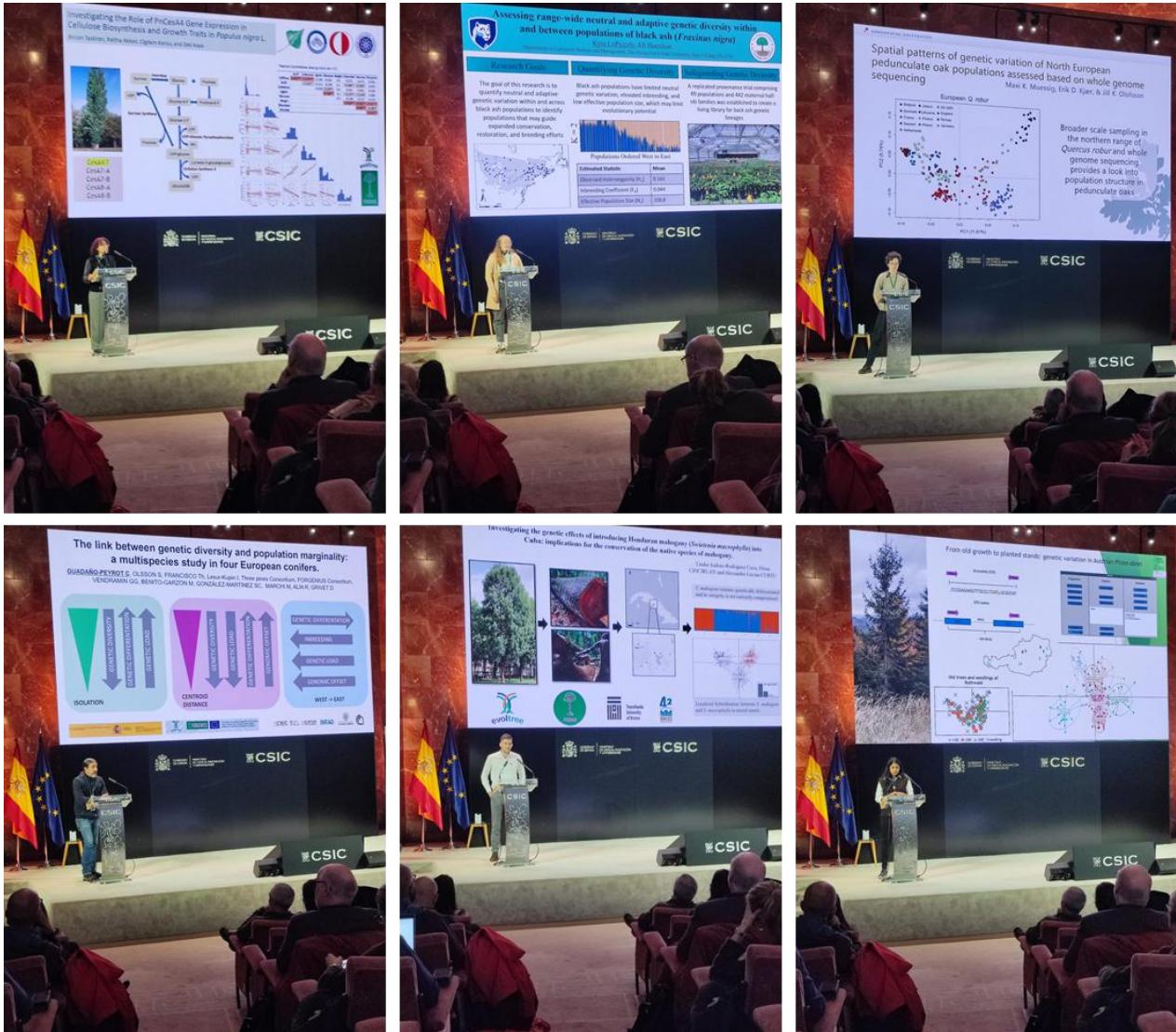
Olofsson Jill K

Comparative genomics reveals extensive structural variants within and among European white oak species (*Quercus* spp.)



12:30

Flash Poster session



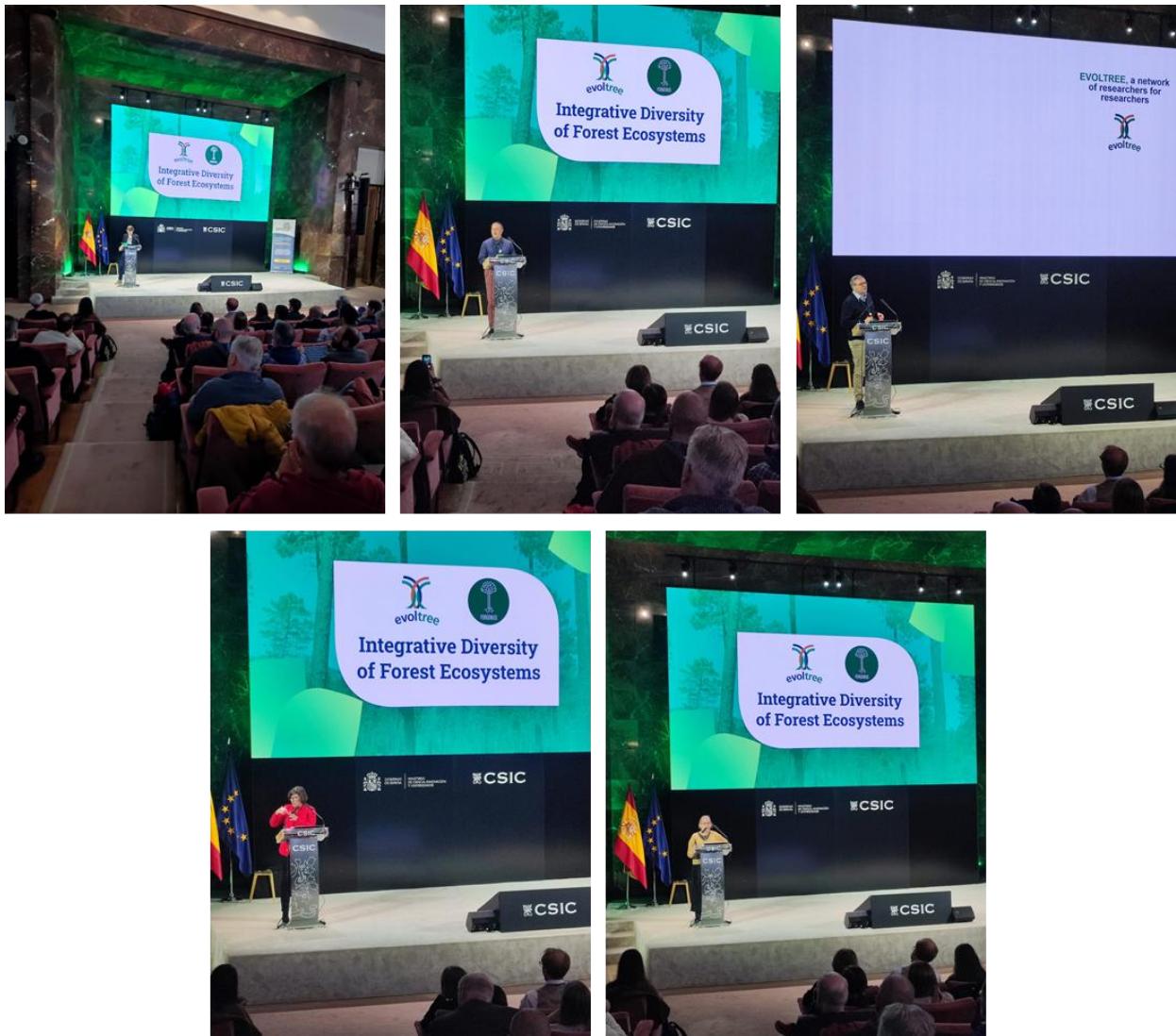
Trip nº 1



Trip nº 2



Welcome moment



Acknowledgments moment



Social moments

Social dinner





Tribute to Beppe



