



iberian PLANT BIOLOGY 2023

Braga Portugal
9-12 July

XVIII Portuguese
Spanish Congress
of Plant Biology

XXV Meeting of the
Spanish Society of
Plant Biology

PROGRAMME

Portuguese Society
of Plant Biology

Spanish Society
of Plant Biology



iberian
**PLANT
BIOLOGY**
2023

Braga Portugal
9-12 July



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WELCOME MESSAGE

Dear colleagues,

On behalf of the Portuguese and Spanish Societies of Plant Sciences, the local organizing committee of the Iberian Plant Biology 2023 (IPB2023) extends a warm welcome to all of you. We are delighted to host this event at University of Minho in Braga (Portugal). The scientific meeting has the motto: "The future starts now!".

This meeting holds the XVIII Portuguese-Spanish Congress on Plant Biology and the XXV Meeting of the Spanish Society of Plant Biology. The main objective is to bring together researchers from different plant-related fields, facilitating the exchange of ideas, the sharing of results and discussions on innovative approaches and solutions that ultimately foster plant sustainability.

The IPB2023 has a comprehensive program featuring 76 oral presentations and over 330 posters. The majority of the participants are from Portugal and Spain, but we also will have the pleasure of welcoming participants from other 17 countries worldwide, making this a truly international event.

We would like to extend our thanks to all of those who have contributed to the organization of this event. Finally, we would like to thank all of you who will be present at the IPB2023. We believe that together we will create an event where knowledge and experiences will be shared and where new collaborations and visions for the future will be forged.

Welcome to Iberian Plant Biology 2023! "The future starts now!"

Best regards,



The President of the Organizing Committee

LOCAL ORGANIZING COMMITTEE

- Teresa Lino-Neto, President of the Organizing Committee, University of Minho
- Adela Sánchez Moreiras, University of Vigo
- Alberto Dias, University of Minho
- Ana Cunha, University of Minho
- Anabela Bernardes da Silva, University of Lisbon
- Hernâni Gerós, University of Minho
- Manuela Costa, University of Minho
- Vicent Arbona, University of Jaume I
- Juliana Melo, University of Lisbon

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- Luis Valledor, University of Oviedo
- Manuel Becana, EEAD-CSIC - Aula Dei Experimental Station
- Manuela Costa, University of Minho
- Margarida Oliveira, ITQB - NOVA University of Lisbon
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- Rosa Rivero, CEBAS.CSIC - Centre for Soil and Applied Biology Segura
- Teresa Capell, University of Lleida
- Vicent Arbona, University of Jaume I

SCIENTIFIC PROGRAMME

9TH JULY

14:30 – 20:00 Registration

10TH JULY

8:00 – 9:00 Registration

9:00 – 9:30 **Opening Session**

9:30 – 10:30 **PLENARY 1**

P1

Auditorium A1, Chair: Teresa Lino-Neto
Evolution of mycorrhizal symbiosis: fungal endophytism as a waiting room
Marc-André Selosse, *Muséum National d'Histoire Naturelle, Paris, France*

10:30 – 11:00 Coffee break

SESSION 1 – PLANT BIOTIC INTERACTIONS

Auditorium A1, Chairs: Andreia Figueiredo and Maria José Pozo

11:00 – 11:30

IS1-1

Mutualism vs. parasitism in legume roots – how do plants mediate biotic interactions in the rhizosphere?
Sofia Costa, CBMA – University of Minho, Portugal

11:30 – 12:00

IS1-2

Mycorrhiza induced resistance against pests: from the lab to the field interactions in the rhizosphere?
Maria José Pozo, Estación Experimental del Zaidín, CSIC, Granada, Spain

Selected oral communications

12:00 – 12:15

SS1-1

Why are some pine species resistant to pine wilt disease?
Cândida Sofia Trindade, USC - University of Santiago de Compostela, Spain

12:15 – 12:30

SS1-2

Molecular layers underlying the plant defence-growth trade-off established upon spider mite infestation
M. Estrella Santamaria, Centro de Biotecnología y Genómica de Plantas (UPM-INIA/CSIC), Spain

12:30 – 12:45

SS1-3

Uncovering grapevine immunity related serine protease interactome: a FRET-FLIM approach
Catarina Silva, FCUL – University of Lisbon, Portugal

12:45 – 13:00 The multifaceted roles of polyamines in the defense response to
 SS1-4 *Pseudomonas syringae* in Arabidopsis
Chi Zhang, University of Barcelona, Spain

SESSION 2 – METABOLISM AND BIOCHEMISTRY

Auditorium A2, Chairs: Alberto Dias and Anabela Romano

11:00 – 11:30 SUMOylation in plants, a functional overview
 IS2-1 *Herlânder Azevedo, BIOPOLIS-CIBIO, University of Porto, Portugal*

11:30 – 12:00 Natural variation at proteome and metabolome level during *Pinus*
 IS2-2 *pinaster* drought x heat stress acclimation
Luis Valledor, IUBA - University of Oviedo, Spain

Selected oral communications

12:00 – 12:15 Phenology, growth, and quality: a downstream approach to
 SS2-1 understand the intervarietal lag in ripening onset of navel orange
Rosa Pires, CEOT - University of Algarve, Portugal

12:15 – 12:30 Genetic and physiological changes involving external application
 SS2-2 of phenolic compounds on tomato plants
Alberto Martínez Alonso, Center of Edaphology and Applied Biology of Segura (CEBAS-CSIC), Spain

12:30 – 12:45 Melatonin modulates strawberry ripening rates by differential
 SS2-3 spatiotemporal accumulation as a result of phytohormones and ROS crosstalk
Alba Arabia, University of Barcelona, Spain

12:45 – 13:00 Study of the S-acylome of olive (*Olea europaea* L.) pollen during
 SS2-4 germination and pollen tube growth
Andrea Román, Estación Experimental del Zaidín, CSIC, Spain

13:00 – 14:30 Lunch

PLENARY 2

Auditorium A1, Chair: Margarida Oliveira

Systems genomics of rice: selection, 3D chromatin structure and stress response

Michael Purugganan, New York University, United States

SESSION 3 – ABIOTIC AND BIOTIC STRESS

Auditorium A1, Chairs: Paula Duque and Vicent Arbona

15:30 – 16:00 Speaking the language of lipids in grapevine-*Plasmopara*
 IS3-1 *viticola* interaction
Andreia Figueiredo, BioISI – Faculty of Sciences, University of Lisbon, Portugal

16:00 – 16:30 Challenging environments for plants survival: understanding plant
 IS3-2 responses under abiotic stress combinations
Rosa Rivero, Center of Edaphology and Applied Biology of Segura (CEBAS-CSIC), Spain

Selected oral communications

- 16:30 – 16:45**
SS3-1
Silencing DNA methylation-associated genes in the grapevine downy mildew pathosystem for improved resilience
João Pereira, BiolSI – Faculty of Sciences, University of Lisbon, Portugal
-
- 16:45 – 17:00**
SS3-2
Extracellular DNA induces plant resistance against the western flower thrips *Frankliniella occidentalis* through callose accumulation
Jordi Gamir, Universitat Jaume I of Castelló, Spain
-
- 17:00 – 17:15**
SS3-3
ABA-induced gene expression and splicing responses in two *Arabidopsis thaliana* natural variants with different sensitivities to the hormone
Alba Rodríguez Díez, Instituto Gulbenkian de Ciência, Portugal
-
- 17:15 – 17:30**
SS3-4
HOS1 promotes plant tolerance to low-energy stress via the SnRK1 protein kinase
Leonor Margalha, ITQB - NOVA University of Lisbon, Portugal

SESSION 4 – PLANT DEVELOPMENT

Auditorium A2, Chairs: Elena Monte and Manuela Costa

- 15:30 – 16:00**
IS4-1
Genetic mechanisms controlling unisexual flowering in trees
Rómulo Sobral, Norwegian University of Life Sciences, Finland
-
- 16:00 – 16:30**
IS4-2
Evolutionary role of *RAV* genes in development and adaptive growth
Soraya Pelaz, CRAG, Barcelona, Spain

Selected oral communications

- 16:30 – 16:45**
SS4-1
Using *Amborella trichopoda* to get insights into the development of the double fertilization mechanism
María Flores-Tornero, ITQB - NOVA University of Lisbon, Portugal
-
- 16:45 – 17:00**
SS4-2
A SPCH-PIF4 loop alters stomatal precursor cell fates to reduce stomatal abundance under supra-optimal temperature
Josué Saiz-Pérez, University of Castilla- La Mancha, Spain
-
- 17:00 – 17:15**
SS4-3
Nitric oxide (NO) impact in the onset of seed germination and early development by the control of specific targets
Inmaculada Sánchez Vicente, University of Salamanca, Spain
-
- 17:15 – 17:30**
SS4-4
OsPIF15 and OsPIF16 are key inducers of skotomorphogenesis in rice
Catarina Monteiro, ITQB - NOVA University of Lisbon, Portugal

17:30 – 19:00 **Porto Wine Tasting (University gardens)**

19:00 – 20:00 Meeting of Spanish Plant Biology Society
Auditorium A2

11TH JULY

9:00 – 10:00

P3

PLENARY 3

Auditorium A1, Chair: Jorge Marques da Silva
 Plant Phenotyping crossing borders and opening windows for science, crop production and breeding
Ulrich Schurr, Institute of Bio- and Geosciences, Germany

10:00 – 11:00

Coffee break and **Poster Session** (sessions 1 to 4)

SESSION 5 – PLANTS FACING CLIMATE CHANGES

Auditorium A1, Chairs: Hernâni Gerós and Rosa Rivero

11:00 – 11:30

IS5-1

Climate projections and dynamic crop modeling for viticultural yield in the C oa region
H lder Fraga, CITAB - University of Tr s-os-Montes and Alto Douro, Portugal

11:30 – 12:00

IS5-2

Plants facing climate change: understanding the impacts and adapting for the future
Cristina Branquinho, cE3c – Faculty of Sciences, University of Lisbon, Portugal

Selected oral communications

12:00 – 12:15

SS5-1

Climate change effects on *Castanea sativa* Miller – an insight into the potential of mycorrhization as a mitigation strategy
Filipa Sousa, GreenUPorto – INOV4Agro, Portugal

12:15 – 12:30

SS5-2

Unravelling the molecular mechanisms underlying changes in the nutritional properties of quinoa seeds under different environmental conditions
Maria Reguera, Autonomous University of Madrid (UAM), Spain

12:30 – 12:45

SS5-3

DARKWIN: Pollinator-assisted plant phenotyping and selection under environmental selection pressure
Francisco P rez Alfocea, CEBAS-CSIC, Spain

12:45 – 13:00

SS5-4

High temperature at flowering and grain filling stage is the major limiting factor for legume production even in winter sowings
Diego Rubiales, Institute for Sustainable Agriculture – CSIC, Spain

SESSION 6 – BIOTECHNOLOGY AND MOLECULAR FARMING

Auditorium A2, Chairs: Nelson Saibo and Teresa Capell

11:00 – 11:30

IS6-1

Somatic embryogenesis in autochthonous grapevine cultivars from Galicia (Spain): current progress and future perspectives
Manuel Rey, University of Vigo, Spain

11:30 – 12:00

IS6-2

Plant cell suspension cultures for the production of recombinant proteins and small molecules for the health and food industries
Rita Abranches, ITQB - NOVA University of Lisbon, Portugal

Selected oral communications

- 12:00 – 12:15**
SS6-1 Using inorganic and organic nanotechnology in spray-induced gene silencing (SIGS) provides a steady RNAi effect against fungal diseases.
Jonatan Niño Sánchez, University of Valladolid, Spain
-
- 12:15 – 12:30**
SS6-2 Investigating the effect of combining different strategies to improve photosynthesis and yield in rice
Tiziano Cadettu, ITQB - NOVA University of Lisbon, Portugal
-
- 12:30 – 12:45**
SS6-3 FaCCD4(4B) underlies the *Yellow Flesh* locus tuning carotenoid concentration in strawberry fruit
Iraida Amaya, IFAPA Junta de Andalucia, Spain
-
- 12:45 – 13:00**
SS6-4 Transgene-free, virus-based gene silencing in plants by artificial small RNAs derived from minimal precursors
Adriana Cisneros, IBMCP – CSIC - UPV, Spain

SESSION 7 – POST-HARVEST BIOLOGY

Auditorium A3, Chairs: José Manuel Palma and Miguel Leão Sousa

- 11:00 – 11:30**
IS7-1 Fruit stress physiology and postharvest physiological disorders
Maria Teresa Lafuente, IATA-CSIC, Spain
-
- 11:30 – 12:00**
IS7-2 To harvest or not to harvest: that is the question about "Citrinos do Algarve" for Vis-NIRS
Ana M. Cavaco, CEOT – University of Algarve, Portugal

Selected oral communications

- 12:00 – 12:15**
SS7-1 Nitric oxide (NO) and its role in post-harvest and the nutraceutical properties of pepper fruits
José M. Palma, Estación Experimental del Zaidín, CSIC, Spain
-
- 12:15 – 12:30**
SS7-2 Fruit molecular responses undergoing Cu deficiency stress on tomato
Paco Romero, IATA-CSIC, Spain
-
- 12:30 – 12:45**
SS7-3 From whole-genome data to the identification of molecular markers: steps to address rice fraudulent claims
Maria B. Vieira, ITQB - NOVA University of Lisbon, Portugal
-
- 12:45 – 13:00**
SS7-4 Preserving postharvest quality, volatile compounds, and sensory attributes of tomato fruit with a novel ethylene oxidizer combination
Jose Ramon Acosta Motos, Catholic University of Murcia (UCAM), Spain

13:00 – 14:30 Lunch

14:30 – 15:30	SABATER LECTURE Auditorium A1, Chair: Teresa Altabella Have grapevine roots something to do with climate challenge? Nazareth Torres , <i>Ramon y Cajal, Public University of Navarra, Spain</i> <i>Winner of the Francisco Sabater Award 2023 given by SSPB</i>
15:30 – 16:00	SSPB Honour Members Recognition Auditorium A1
16:00 – 22:00	Social Programme

12TH JULY

9:00 – 10:00 P4	PLENARY 4 Auditorium A1, Chair: Manuela Costa Combined strategies to engineer natural products in tomato Eugenio Butelli and Cathie Martin
10:00 – 11:00	Coffee-break and Poster Session (sessions 5 to 12)
	SESSION 8 – AGROECOSYSTEMS AND SUSTAINABLE CROP PRODUCTION Auditorium A1, Chairs: Adela Sánchez and Sofia Costa
11:00 – 11:30 IS8-1	Towards new bio-based solutions to control Rice Blast <i>Cristina Azevedo, InnovPlantProtect, Portugal</i>
11:30 – 12:00 IS8-2	Iberian millets: a biography and a portrait of their traditional ecological knowledge <i>Andrés Teira-Brión, University of Oxford, United Kingdom</i>
	Selected oral communications
12:00 – 12:15 SS8-1	Vineyard terroir identity: looking for microbial indicator species <i>Ana Cruz-Silva, BioISI – Faculty of Sciences, University of Lisbon, Portugal</i>
12:15 – 12:30 SS8-2	Development of halophyte-based farming systems in Mediterranean soils <i>Gregorio Barba Espín, Centro de Edafología Y Biología Aplicada del Segura (CEBAS-CSIC), Murcia, Spain</i>
12:30 – 12:45 SS8-3	Study of microbial activity, antioxidant capacity and phenolic compound content of biopreparations used in agroecology <i>Joana Simões, Agrarian School of Viseu, Portugal</i>
12:45 – 13:00 SS8-4	Exploring grass pea (<i>Lathyrus sativus</i> L.) breeding potential in Mediterranean changing climate conditions <i>Carlota Vaz Patto, ITQB - NOVA University of Lisbon, Portugal</i>

SESSION 9 – PLANT ENVIRONMENTAL PHYSIOLOGY

Auditorium A2, Chairs: Ana Cunha and Anabela Bernardes da Silva

11:00 – 11:30
IS9-1 Traits determining sink strength for improving wheat yield. Resource allocation to juvenile spikes, efficiency in its use and floret development
Gustavo Stafer, ICREA and University of Lleida, Spain

11:30 – 12:00
IS9-2 Photosignaling in the adaptation to diurnal challenges
Elena Monte, Centre for Research and Agriculture Genomics, Spain

Selected oral communications

12:00 – 12:15
SS9-1 Leaf-level physiology integration with multi-tools for comprehensive plant monitoring across scales
Raquel Esteban, University of Basque Country, Spain

12:15 – 12:30
SS9-2 Evolution and genetic improvement of wheat led to changes in ear ecophysiology and source/sink strength
Omar Vergara Diaz, ITQB - NOVA University of Lisbon, Portugal

12:30 – 12:45
SS9-3 Rock-a-bye baby: FLOWERING LOCUS T coordinates end-of-flowering with offspring production in *Arabidopsis thaliana*
Pablo González-Suárez, University of Leeds, United Kingdom

12:45 – 13:00
SS9-4 Tomato plants grown under high atmospheric demand exhibit quicker stomatal responses to changes in leaf water status
Javier Pichaco García, Institute of Natural Resources and Agrobiology of the CSIC (IRNAS-CSIC), Spain

SESSION 10 – SEEDS OF KNOWLEDGE

Auditorium A3, Chairs: Ana Paula Santos and José Matos

11:00 – 11:30
IS10-1 Plant biology popularisation, a challenging task: *Arabidopsis* versus the James Webb images
Matilde Barón Ayala, Estación Experimental del Zaidín, CSIC, Spain

11:30 – 12:00
IS10-2 Citizen science: involving citizens in increasing botanical knowledge
Elizabete Marchante, University of Coimbra, Portugal

12:00 – 12:30
IS10-3 The Flora-On portal: leveraging the potential of biodiversity data to provide different insights into species natural histories
Miguel Porto, CIBIO/InBIO, BIOPOLIS, Botanical Society of Portugal, Portugal

Selected oral communications

12:30 – 12:45
SS10-1 Poaceae diversity in Cabo Verde's islands: a key to sustainable management of arid ecosystems under climate change
Vanézia Rocha, LEAF, TERRA, ISA - University of Lisbon, Portugal

12:45 – 13:00
SS10-2 Stranger plants: Running up that Hill
José Díaz Varela, University of Coruña, Spain

13:00 – 14:30	Lunch
14:30 – 16:00	<p>Round Table – Women in Science Auditorium A1, Moderator: Paula Nogueira <i>Cláudia Pascoal, University of Minho, Portugal</i> <i>Isabel Ferreira, Polytechnic Institute of Bragança, Portugal</i> <i>Paloma Sánchez Bel, University of Jaume I, Castellón, Spain</i> <i>Irene García Fernández, CSIC, Spain</i></p>
16:00 – 16:30	Coffee break
<p>SESSION 11 – SYSTEMS BIOLOGY Auditorium A1, Chairs: Luis Valledor and Margarida Oliveira</p>	
16:30 – 17:00 IS11-1	<p>Genetic networks regulating cork production – from theoretical prediction to functional validation <i>Pedro Barros, ITQB - NOVA University of Lisbon, Portugal</i></p>
17:00 – 17:30 IS11-2	<p>Posttranscriptional control of ABA-mediated early plant development and stress response <i>Paula Duque, IGC, Lisbon, Portugal</i></p>
<p>Selected oral communications</p>	
17:30 – 17:45 SS11-1	<p>Multi-omics approach for revealing candidate genes of improved radioresistance in <i>Hordeum vulgare</i> L. <i>Polina Volkova, Independent Researcher, Belgium</i></p>
17:45 – 18:00 SS11-2	<p>Multisensory integration of light and temperature predates plant terrestrialisation <i>Bruno Catarino, IBMCP, Portugal</i></p>
18:00 – 18:15 SS11-3	<p>Cell-type-specific alternative splicing and transcriptome reprogramming in the Arabidopsis male germline <i>Jörg D. Becker, ITQB – UNL, Portugal</i></p>
18:15 – 18:30 SS11-4	<p>Unveil the ancestral function of MYB-like genes in <i>Marchantia polymorpha</i> <i>Sara Coelho, CBMA – University of Minho, Portugal</i></p>
<p>SESSION 12– MINERAL NUTRITION AND WATER RELATION Auditorium A2, Chairs: Manuel Becana and Paula Scotti</p>	
16:30 – 17:00 IS12-1	<p>The physiology of the symbiotic plant nutrition <i>Cristina Cruz, cE3c – Faculty of Sciences, University of Lisbon, Portugal</i></p>
17:00 – 17:30 IS12-2	<p>Drought adaptive strategies of two coexisting woody species in a Mediterranean ecosystem <i>Maria C. Caldeira, CEF, TERRA, ISA - University of Lisbon, Portugal</i></p>

Selected oral communications

17:30 – 17:45
SS12-1
Coordination of stress response and nutrient homeostasis by rice Calcium-Dependent Protein Kinases
Isabel A. Abreu, ITQB - NOVA University of Lisbon, Portugal

17:45 – 18:00
SS12-2
Aquaporins as molecular markers in melon resistance to abiotic stress and cracking physiopathy
Micaela Carvajal, CEBAS-CSIC, Murcia, Spain

18:00 – 18:15
SS12-3
Arabidopsis F6'H3 dioxygenase plays a role in nutrient homeostasis affecting iron and sulfate deficiency response
Alicja Dobek, University of Gdańsk, Poland

18:15 – 18:30
SS12-4
Chloride uptake is regulated by nitrate availability in plants: identification of regulatory components
José M Colmenero Flores, Instituto de Recursos Naturales y Agrobiología de Sevilla – CSIC, Spain

18:30 – 19:00
Best poster awards and Closing Session
Auditorium A1

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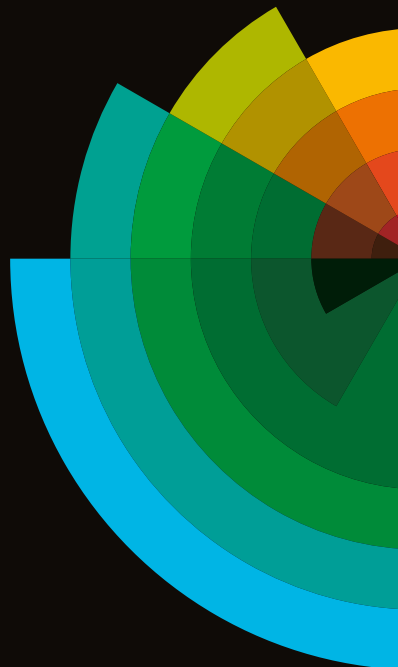
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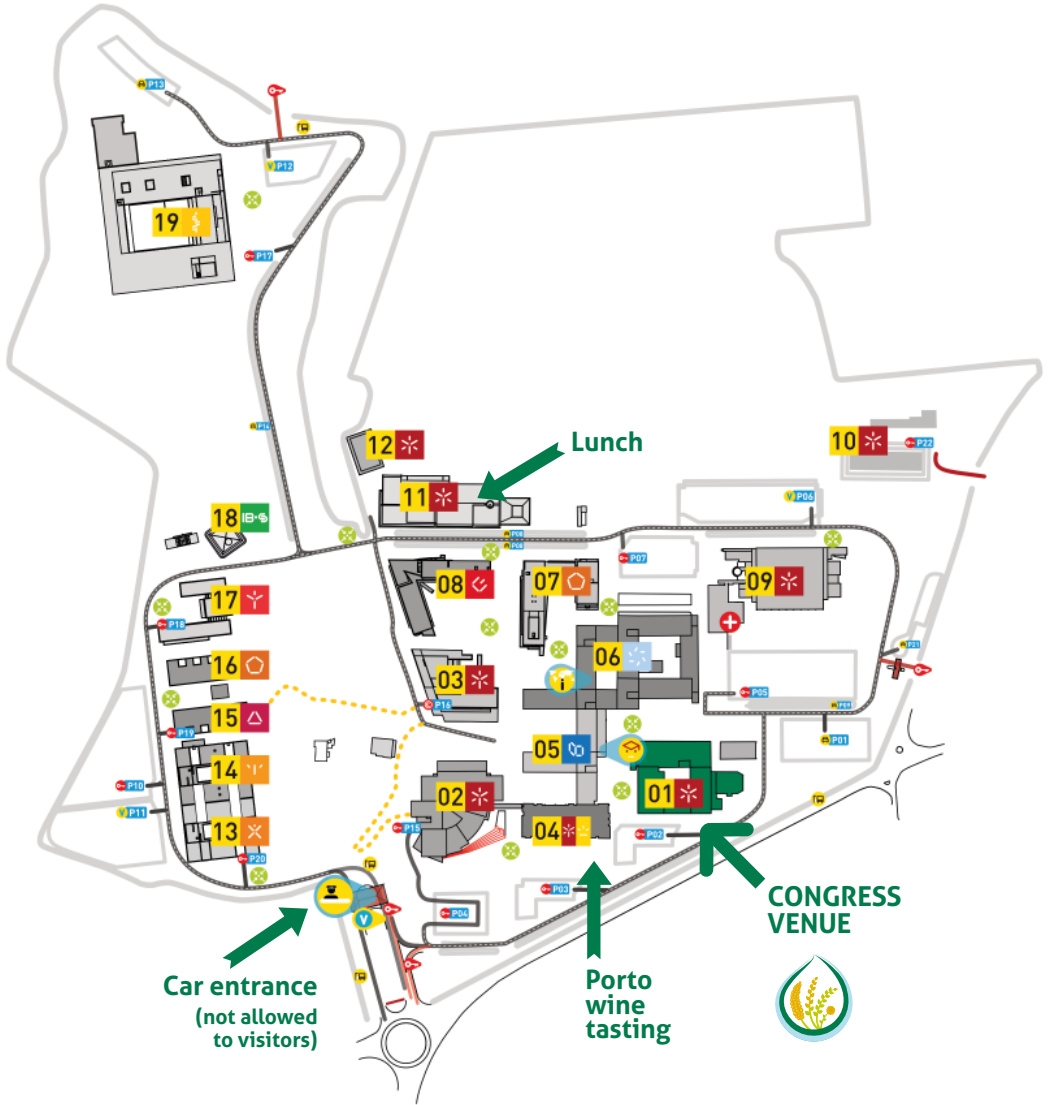
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Campus of University of Minho



IPB2023 Venue Map - ground floor



IPB2023 Venue Map - first floor





University of Minho
School of Sciences



AMORIM

GENERAL PROGRAMME

	9 TH JULY	10 TH JULY	11 TH JULY	12 TH JULY
08:30-09:00		Registration		
09:00-09:30		Opening session		
09:30-10:00		Plenary 1 - Marc André Selosse A1	Plenary 3 - Ulrich Schurr A1	Plenary 4 - Eugenio Butelli A1
10:00-10:30	Coffee break			
10:30-11:00				
11:00-11:30		Session 1 Plant Biotic Interactions A1	Session 2 Metabolism and Biochemistry A2	Session 8 Agroecosystems and Sustainable Crop Production A1
11:30-12:00				
12:00-12:30				
12:30-15:00		Lunch	Lunch	Lunch
13:00-13:30				
13:30-14:00				
14:00-14:30				
14:30-15:00		Plenary 2 - Michael Purugganan A1	Sabater lecture - Nazareth Torres A1	Round table - Women in Science A1
15:00-15:30				
15:30-16:00				
16:00-16:30		Session 3 Abiotic and Biotic Stress A1	Session 4 Plant Development A2	Session 11 Systems Biology A1
16:30-17:00				
17:00-17:30				
17:30-18:00		Porto Wine Tasting	Social Programme	Best Poster Awards and Closing Session
18:00-18:30				
18:30-19:00				
19:00-19:30		Meeting of Spanish Plant Biology Society A2		
19:30-20:00				
	3rd PhD Meeting in Plant Science	Registration		Teaching for Innovation