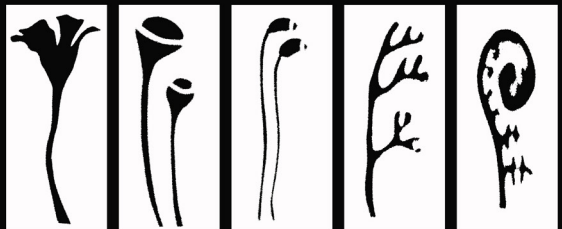


posters

XXII Symposium of
Cryptogamic Botany
Lisbon, Portugal | 24 - 26 July 2019



general schedule

	24 th July	25 th July	26 th July
8:30 - 09:00	registration	plenary session III	plenary session IV
09:00 - 09:30	opening		
09:30 - 10:00	plenary session I	biodiversity & biogeography II	physiology & ecophysiology II
10:00 - 11:00			
11:00 - 11:30	coffee break	coffee break	coffee break
11:30 - 13:00	global change I	systematics & evolution I	extreme environments
	biodiversity & biogeography I	biomonitoring	global change II
13:00 - 14:30	lunch	lunch	lunch
14:30 - 15:00	plenary session II	visit to Monsanto Biodiversity space	technological applications
15:00 - 15:30			coffee break
15:30 - 16:00	urban environments	physiology & ecophysiology II	
16:00 - 16:30			coffee break
16:30 - 17:00	coffee break	closing ceremony	
17:00 - 18:00	poster session		
19:00 - 20:30	welcome reception & art exhibition	symposium dinner	
20:30			

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number** **Poster session (atrium C6)**

systematics & evolution

- 1 Widespread stomatal degeneration in the pleurocarpous moss family Brachytheciaceae



Daniel Guerra-Mateo, Belén Estébanez, J. David Orgaz

- 2 Ontogeny of internal cephalodia in the lichen *Ricasolia virens* (With.) H.H. Blom & Tønsberg, a novel research

Eva Barreno, García-Breijo, F.J., Reig-Armiñana, J.

- 3 Hongos liquenícolas de Isla Livingston (Antártida)

Javier Etayo, Leopoldo G. Sancho

- 4 Study of the gametophytic phase of *Diplazium caudatum* (Athryiaceae, Polypodiopsida)



Martin Alonso, José María Gabriel y Galán

- 5 Molecular study on the genus *Schistidium* (Grimmiaceae, Bryophyta) in the South of the Iberian Peninsula



Mónica Martínez, Juan A. Jiménez-Fernández, Juan F. Jiménez-Martínez, María J. Cano, M. Teresa Gallego, Juan Guerra

- 6 DNA barcoding of *Parmotrema* s.l. (Parmeliaceae) in the atlantic rain forest of the extreme south of Brazil

Natália Mossmann Koch, Andressa S. Rodrigues, Luciana Canêz, Natália M. Koch, Aline P. Lorenz

- 7 *Physcia* (Physciaceae, Caliciales) from Mato Grosso do Sul state, Brazil: ten new records and two new species

Natália Mossmann Koch, Thiago Dias Barbosa, Jean-Marc Edson Torres, Natália Mossmann Koch, Patrícia Jungbluth, Adriano Afonso Spielmann

- 8 Illumina assay reveals habitat/ location as the main factor driving microalgal diversity in *Ramalina farinacea*

Patricia Moya, Arantzazu Molins, Lucia Muggia, Eva Barreno

- 9 Contenido de ADN y modelo nuclear en el género *Plocamium* J.V. Lamouroux



Rafael Pablo Martín Martín, Rubén Solsona Mayor, Amelia

Gómez Garreta, Jordi Rull Lluch

- 10 Morpho-anatomical observations towards a global understanding of the genus *Cranfillia* Gasper & V.A.O. Dittrich (Blechnaceae, Polypodiopsida)



Rubén Vázquez, Sonia Molino, Andrea Seral, Jose María Gabriel y Galán, Sofía Ruano & María Vicent

- 11 Breaking a lichen relationship: looking at the mycobiont when the photobiont has gone

Silvana Munzi, Catarina Gouveia, Beatrice Castellani, Cristina Cruz

- 12 Study of the gametophytic phase of *Amphineuron immersum* (Thelypteridaceae, Polypodiopsida)



Sofía Ruano, Jose María Gabriel y Galán, Sonia Molino, Andrea Seral, Rubén Vázquez

- 13 Sporangia and spores as characters to support the separation of *Spicantopsis* and *Struthiopteris* (Blechnaceae, Polypodiopsida)



Sonia Molino, Jose María Gabriel y Galán, Carmen Prada, Belén Estébanez, Rubén Vázquez, Andrea Seral, Sofía Ruano

physiology & ecophysiology

- 14 How do liverworts from different geographic regions deal with water availability?

Anabela Martins, César A. Garcia, Cristina Máguas, Manuela Sim-Sim

- 15 Analysis of phycobionts by fourier transform-near infrared spectroscopy (FT-NIRS)




Joana R. Expósito, Irene Bruñas, M. Rosa de las Eras, Patricia Alonso, Eva Barreno, Myriam Catalá

- 16 Variability of hydration traits in the lichen genus *Ramalina* and its relation with habitat and thallus anatomy



Miguel Blázquez, Diana Nicole Puerto, David Troya León, Francisco Gasulla, Sergio Pérez-Ortega


- 17 The importance of hydration traits in the radiation of the Macaronesian *Ramalina decipiens* group (Ramalinaceae, lichenized Ascomycota)

 **Miguel Blázquez, Francisco Gasulla, Beatriz Fernández-Marín, Eva Miedes, José Ignacio García-Plazaola, Israel Pérez-Vargas, Sergio Pérez-Ortega**

18 Monitoring moss growth and physiological state using a low-cost image analysis system

Nagore G. Medina, Manuel M. Bustamante, Indradatta de Castro-Arazola, Belén Estébanez, Fernando Hurtado, Cristina Ronquillo, María Leo, Joaquín Hortal

19 Preliminary study of chlorophyll: a fluorescence measurement in bryophyte *Syntrichia ruralis* [Hedw] from different microhabitats in semi-arid grasslands, Hungary

 **Ruchika, Zsolt Csintalan**

20 Hydration traits in epiphytic lichens of fragmented subcantabric *Quercus* forests

 **Sonia Trobajo, Ana Belén Fernández-Salegui, Arsenio Terrón, Pilar Hurtado, Isabel Martínez**

global change

21 Can beard-forming lichens of high elevation forests help to detect the impact of global change in the Alps?

Paolo Giordani, Chiara Vallese, Juri Nascimbene, Renato Benesperri, Martin Grube, Lorenzo Marini and Helmut Mayrhofer

urban environments

22 Revisiting the bryophytes of “Mata-Jardim de José Canto (São Miguel Island)” after 81 years

Rosalina Gabriel, Michele Aleffi, Marta de Benedictis, Clara Polaino, Ricardo Cruz, Paulo A. V. Borges, Isabel Albergaria

extreme environments

23 Epiphytic diatoms on Deception Island (Antarctica): observation of specific pairings of epiphytes and macroalgal hosts

Andrea M. Burfeid Castellanos, Rafael P. Martín Martín

24 Bryophytes in mining areas: the case of study of “Su Suergiu”,

South-Eastern Sardinia (Italy)



Antonio De Agostini, Pierluigi Cortis, Andrea Vacca, Annalena Cogoni

- 25** Taxonomic and functional diversity of lichens along an environmental gradient in gypsum soils
María Prieto, Luca Di Nuzzo, Renato García, Sergio Muriel, Isabel Martínez, Gregorio Aragón

biogeography & biodiversity

- 26** The genus *Cladonia* in Sicily (Italy)
Ana Rosa Burgaz, Blanca Gutiérrez-Larruga, Raquel Pino-Bodas

- 27** The genus *Cladonia* in Sardinia (Italy)
Ana Rosa Burgaz, Blanca Gutiérrez-Larruga, Raquel Pino-Bodas

- 28** Study of gametophytic competence between several saxicolous species of spleenworts (*Asplenium*)



Andrea Seral, Sonia Molino, Pablo de la Fuente, Jose Maria Gabriel y Galán, Rubén Vázquez, María Vicent, Sofía Ruano


- 29** *Placynthium coerulescens* (Harm.) Gyeln. in the Iberian Peninsula
Antonio Gómez-Bolea

- 30** Preliminary data from the lichenological field trip of the Spanish Lichen Society (SEL) in the Sierra Nevada National Park
Antonio Gómez-Bolea, Manuel Casares, Violeta Atienza, Ana Rosa Burgaz, María José Chesa, Salvador Chiva, Cristina Dumitru, Laura Force, Sergio Muriel, Maria Prieto, Víctor J. Rico, Clara Rodríguez

- 31** Unravelling the microalgae associated with sphaerothalloid *Circinaria*: *Trebouxia izcoana* sp. nov. as representative of a new clade
Arantzazu Molins, Patricia Moya, Jose Reig-Armiñana, Francisco García-Breijo, Eva Barreno

- 32** Assessing species-specific traits for vegetative dispersal in six Iberian soil mosses
Belén Estébanez, Fernando Hurtado, Manuel Molina, Cristina

Ronquillo, Pedro Aragón, Joaquín Hortal, Nagore G. Medina

- 33** *Orthotrichum comosum* F. Lara, Medina & Garilletii (Orthotrichaceae, Bryophyta) in the Iberian Peninsula and the most important environmental factors determining its occurrence
Cecília Sérgio, César Garcia, Manuela Sim-Sim, Anabela Martins, Francisco Lara
- 34** Wild African Cryptogams: more than one thousand specimens understudied at the Natural History and Science Museum at Porto University (PO) Herbarium
Cristiana Vieira, Ana Rita Costa
- 35** Survey of the bryophytes in the floodplain habitats of Kopački rit Nature Park (Croatia)
 **Dragan Prlić**
- 36** Preliminary checklist of lichens and lichenicolous fungi of Portugal
Graciela Paz-Bermúdez, Palmira Carvalho, Rui Figueira, Maria Eugenia López de Silanes, Joana Marques, Josefina Alvarez
- 37** Are the climatic responses of moss sister taxa similar at both sides of the Atlantic?
Joaquín Hortal, Cristina Ronquillo, Nagore G. Medina, Jennifer Morales-Barbero, Pedro Aragón, Vicente Mazimpaka, Manuel Molina-Bustamante
- 38** Biodiversidad líquénica en iglesias graníticas del noroeste de la península Ibérica. ¿Relación con el cambio climático?
M^a Eugenia López de Silanes, Graciela Paz-Bermúdez, María Calviño-Cancela, Beatriz Prieto
- 39** Community assembly patterns of byrophytes and tracheophytes and future ecosystem vulnerability in boreal peatlands of North-Western Québec
 **Marc-Frédéric Indorf, Tana Route, Yves Bergeron, Nicole Fenton**
- 40** Lichen communities in northwest Quebec, Canada: biodiversity and influential environmental factors
 **Tana Route, Nicole Fenton, Marc-Frederic Indorf, Mireille**


Martel

- 41** Why are you here? Drivers of bryophyte epiphytic community structure across scales
Nagore G. Medina, Joaquín Calatayud, Richard Ladle, Francisco Lara, Isabel Draper, Vicente Mazimpaka, Joaquín Hortal
- 42** The Phaeophyceae (marine macroalgae) on the coast of Algeria: biodiversity and biogeography
Nora Ould Ahmed, Amelia Gómez Garreta, María Antonia Ribera Siguan
- 43** Rare Vascular Cryptogams on the territory of Ukraine
Olesya Bezsmertna
- 44** Competition and abiotic stress factors in three species of Mediterranean mosses
 **Paula Martínez Domínguez, Belén Estébanez, María Leo**
- 45** Diversity and ecology of the lichen family Lobariaceae (lichenized Ascomycota: Peltigerales) in Croatia
Sinisa Ozimec, Dragan Prlic

management & conservation

- 46** Contribution to assessment of threatened species in red list of lichen-forming and lichenicolous fungi in Spain and Portugal
Violeta Atienza, Simón Fos, Ana Rosa Burgaz, M^a Eugenia López de Silanes, Ana Millanes, I. Olariaga, Graciela Paz-Bermúdez, Israel Pérez-Vargas, María Prieto, Sergio, Pérez-Ortega

technological applications

- 47** Novel lichen tissue culture methodology suitable for the isolation and propagation of microalgae in foliose lichens
 **Cristina Dumitru, Arantzazu Molins, Salva Chiva, Patricia Moya, Eva Barreno**
- 48** Protocol for the isolation of yeasts associated with lichens, modified from the previous developed for lichen bacteria (patent ES2575752B2)

 **Salvador Chiva, Isabel Martínez-Nieto, Arantzazu Molins, Patricia Moya, Eva Barreno**

biomonitoring

48 Effect of lead on shoots and spores of four moss species with contrasted ecological affinities

 **Alejandro R. Gijón, Nagore G. Medina, Belén Estébanez**

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 **Violeta Rangel Osornio, Ana Belén Fernández Salegui, Víctor Manuel Gómez Reyes, Ruth Alfaro Cuevas Villanueva**