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XX SIMPÓSIO DE BOTÂNICA CRIPTOGÂMICA

PORTO, 22 A 25 DE JULHO DE 2015



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XX SIMPÓSIO DE BOTÂNICA CRİPTOGÁMICA

PORTO, 22 A 25 DE JULHO DE 2015



BOOK OF ABSTRACTS ISBN: coming soon



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<http://criptogamia.up.pt/>

Symposium Venue: HF Tuela Porto, Street Arq. Marques da Silva, 200
4150-483 Porto
Tel.: (+351) 226 004 747 / Fax: (+351) 226 003 709
E-mail: hftuelaporto@hfhotels.com
Coordinates GPS: 41° 09' 17" N / 8 ° 37' 50" O

Organization:



Support:



Program:



22/07/2015

Wednesday- Quarta - Miercoles

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08h30 **Registration | Hotel Tuela Porto, Top floor**

ROOM SUL

09h30 Inaugural session

10h00 Plenary session | **Biodiversity and Conservation**: Anne Magurran (UStA) "Biological diversity in a changing world"

11h00 **Coffee-break | ROOM DOURADA**

11h30 Invited thematic conference | **Biodiversity and Conservation**: Sílvia Carvalho (CIBIO-InBIO) "Incorporating evolutionary processes into systematic conservation planning "

12h00 BC1.O1 | Blowing in the wind... Phenotypic variability or speciation event in the lichen genus

12h15 BC1.O2 | Bryophyte beta diversity along an elevational gradient in Terceira Island, Azores

12h30 BC1.O3 | Checklist de los briófitos de la Comunidad Autónoma del País Vasco (España): actualización y bases para una lista roja

12h45 BC1.O4 | El género Prorocentrum (Dinophyceae, Prorocentrales) en aguas neríticas y costeras de Canarias: nuevas aportaciones

13h00 BC1.O5 | Aspectos bioquímicos de la tolerancia a la deshidratación en Pleurozium schreberi durante la época seca en el páramo de Chingaza (Colombia)

13h15 BC1.O6 | Macrofungal communities of two native oak woods (*Quercus faginea* subsp. *broteroi* and *Q. rotundifolia*) in Central Portugal, with a study of sampling methods

13h30 **Lunch | Restaurant Hotel Tuela**

ROOM SUL

15h00 BC2.O1 | Diversidad y ecología de cianobacterias bentónicas en los ríos de Castilla-La Mancha

15h15 BC2.O2 | Epiphytic lichen diversity in broadleaved forests in Cadí-Moixeró Natural Park: assessing habitat status.

15h30 BC2.O3 | Filling knowledge gaps on the diversity of Iberian epiphytic bryophytes

15h45 BC2.O4 | Keeping up with the Bryophytes: richness, diversity and threatened taxa patterns and conservation in headwater streams

16h00 BC2.O5 | LEGE Culture Collection and its cyanobacterial diversity: strains data survey analysis highlights the increasing importance of this biological resource

16h15 BC2.O6 | Limitaciones al establecimiento del liquen *Pectenia plumbea* a escala de paisaje inferidas a partir de modelización del hábitat y análisis de ocupación del hábitat potencial

16h30 BC2.O7 | Líquenes en los cocones del karst del Parc del Garraf (Catalunya)

16h45 BC2.O8 | Los líquenes epífitos del monteverde canario y su supervivencia en plantaciones

17h00 **Coffee-break | ROOM DOURADA**

ROOM DOURADA

17h30 Communications in poster | **Biodiversity and Conservation** (Session BC)

19h30 **Porto wine tasting | Porto Botanical Garden**



23/07/2015

Thursday - Quinta -Jueves

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ROOM SUL					
09h00	Plenary session Technology and Heritage : Patrícia Sanmartín (USC) "Biology for cultural heritage preservation"				
10h00	Invited thematic conference Technology and heritage : Rui Pereira (Alga ⁺) "Portuguese Seaweeds - heritage and potential value"				
ROOM SUL		ROOM NORTE			
10h30	TH1.O1 SEACOLORS: Natural pigments from selected microalgae with potential application in the textile industry				
10h45	TH1.O2 Lichen-induced geochemical weathering of schist surfaces in Côa Valley Archaeological Park (NE Portugal)				
11h00	Coffee-break ROOM DOURADA				
ROOM SUL					
11h30	Invited thematic conference Bioindication and Environmental Management : João Honrado (CIBIO-InBIO) "Indicators of what, for what, and for whom? Biodiversity, ecosystems and the governance of socio-ecological systems"				
12h00	BEM1.O1 Airborne fungal spores in Badajoz (SW Spain) and weather influence in their seasonal distribution				
12h15	BEM1.O2 Airborne fungal spores in Payerne (Switzerland)				
12h30	BEM1.O3 Airborne spores of Alternaria in three cities of Extremadura (SW Spain) and different factors influence in their seasonal distribution				
12h45	BEM1.O4 An ecophysiological study across the Drake Passage on the saxicole tundra forming lichens of Usnea genus				
13h00	BEM1.O5 Assessing the impact of alkaline dust pollution on the genetic variation of lichen Usnea subfloridana (lichenized Ascomycota, Parmeliaceae)				
13h15	BEM1.O6 Briófitos asociados a minas de cobre en la Sierra Norte de la Comunidad de Madrid				
13h30	Lunch Restaurant Hotel Tuela				
ROOM SUL		ROOM NORTE			
15h00	BC5.O1 Modelação da influência de alterações climáticas sobre micro-habitats e padrões de atividade de molusco terrestre (<i>Geomalacus maculosus</i>): contributos para a conservação de micro-comunidades biológicas dominadas por criptogâmicas				
15h15	BC5.O2 Notas sobre la herbivoría en esporófitos de <i>Buxbaumia viridis</i> en el Pirineo				
15h30	BC5.O3 Nueva aproximación para la descripción de las comunidades liquénicas y el comportamiento específico				
15h45	BC5.O4 Phymatolithon calcareum in maerl beds from Atlantic Europe: insights from a species-specific microsatellite study reveal considerable clonality				
16h00	BC5.O5 Produção de túberas (<i>Terfezia spp.</i>) – Novas espécies para Portugal				
16h15	BC5.O6 Project MOVECLIM: Studying bryophyte macroecological patterns along elevation transects across archipelagos				
16h30	BC5.O7 Saxicolous lichen diversity in a complex landscape in NE Iberian Peninsula				
16h45	BC5.O8 The new World Checklist of Hornworts and Liverworts				
17h00	Coffee-break ROOM DOURADA				
ROOM DOURADA					
17h30	Communications in poster Bioindication and Environmental Management; Systematics, Evolution and Biogeography & Technology and Heritage (Sessions BEM, SEB & TH)				
ROOM GT 332 (FLOOR 3)					
19h30	Extraordinary session "O Museu de História Natural e da Ciência da Universidade do Porto"				
20h30	Extraordinary session Rui Figueira (IICT): "Promote biodiversity data publishing and usage: the role of data papers"				



24/07/2015

Friday - Sexta - Viernes

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ROOM SUL		
09h00 Plenary session Systematics, Evolution and Biogeography : Christopher Ellis (RBGE) "The cryptogamic epiphyte response to climate change: scaling from biogeography to habitat management "		
10h00 Invited thematic conference Systematics, Evolution and Biogeography : Mariana Ricca (UZ) "Gene expression variation in <i>Physcomitrella patens</i> sporophytes"	ROOM SUL	ROOM NORTE
10h30 SEB2.01 A preliminary evaluation of lineage differentiation in European Aneura	BEM2.01 The herbivore interaction between midge species, <i>Scatopsciaracunicularius</i> (Sciaridae: Diptera) and the thallose bryophyte, <i>Marchantia polymorpha</i>	
10h45 SEB2.02 Advances into the evolutionary history and biogeography of Parmeliaceae (Ascomycota)		
11h00 Coffee-break ROOM DOURADA		
11h30 SEB3.01 A taxonomic study on cleistocarpous species of Weissia (Pottiaceae, Bryophyta) in Japan	BEM3.01 The photoreceptor of ultraviolet-B radiation (UVR8) in <i>Marchantia polymorpha</i> .	
11h45 SEB3.02 An ecogeographical approach to the genetic structure of <i>Parmelina carporrhizans</i> using specific microsatellites (SSR) markers	BEM3.02 Biodiversity in olive groves in the province of Jaén (Andalucía, Spain)	
12h00 SEB3.03 Assessing the taxonomical significance of bistratose leaf in <i>Orthotrichum anomalum</i> -like populations from western Iberian Peninsula	BEM3.03 Detection and control of cyanobacteria in ornamental fountains in the city of Barcelona	
12h15 SEB3.04 Evaluation of vegetative growth and reproductive success in <i>Grimmia decipiens</i> in a gradient ambiental	BEM3.04 Effects of microcystins and extracts of cyanobacteria on photosynthesis of aquatic algae. Implications ecological and of management.	
12h30 SEB3.05 Dancing with the distinction of <i>Orthotrichum affine</i> and <i>O. fastigiatum</i> , a morpho-molecular approach.	BEM3.05 How to protect bryophytes from being drowned or lost? A framework for the efficient monitoring of priority bryophyte diversity	
12h45	BEM3.06 Long-term effects of dangerous substances on diatoms (Bacillariophyta) and their communities as measured in the Ebro River Basin (NE Spain)	
13h00 SEB3.07 El nuevo orden Collemopsidiales (Dothideomyceta) alberga una gran diversidad de especies marinas del género <i>Collemopsidium</i> .	BEM3.07 Pulp mill industry emissions biomonitoring, and impacts on the photosynthetic performance of lichen transplants	
13h15 SEB3.08 Estructura genética poblacional y flujo génico de <i>Mastodia tessellata</i> (Ascomycota, Fungi) en el eje bipolar Alaska-Antártida	BEM3.08 Response of lichens and mosses as bioindicators of high concentrations of CO2	
13h30 Lunch Restaurant Hotel Tuela	ROOM SUL	ROOM NORTE
15h00 Extraordinary session Patrícia Tiago (Biodiversity4All): "BioDiversity4All - a Portuguese citizen science project"	ROOM SUL & NORTE	
15h30 General Assembly and Closing Ceremony	ROOM SUL & NORTE	
17h00 Coffee-break ROOM DOURADA	ROOMS SUL & NORTE	
17h30 Meetings of Societies	ROOMS SUL & NORTE	



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Airborne spores of *Alternaria* in three cities of Extremadura (SW Spain) and different factors influence in their seasonal distribution

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Introduction. The genus *Alternaria* is recognized as important pathogen in plants, and *Alternaria* allergens are one of the most important causes of respiratory allergic disease in Europe. Extremadura is a region located in the SW of Spain; it has an extensive territory with many different landscapes. The aims of this work were to know the seasonal distribution of airborne fungal spores of *Alternaria* for three years in three cities of Extremadura, and analyze the main influencing factors, like weather and land uses.

Material and Methods. Sampling was taken from March 2011 to December 2013 in Don Benito, Plasencia and Zafra. A Hirst spore trap was used of a continuous way. Spores were identified and counted at x400 microscopic optical magnification with two longitudinal scans in the centre of the microscopic slide. Data were provided as daily or hourly spores' concentration per cubic meter. The main land uses some km around the cities were irrigated crops, cereal crops and grassland pastures in Don Benito, oaks forests and olive crops in Plasencia, and oak forests, grassland pastures and olive crops in Zafra. Weather data were provided by a meteorological station close to the spore traps. Non parametric correlations (Spearman test) were used to compare with weather parameters. Wind direction influence and their relationships with land uses were analyzed using a GIS program.

Results. *Alternaria* concentrations were higher in Don Benito (35.7 spores/m³), followed by Zafra (17.5 spores/m³) and the lowest concentrations in Plasencia (11.4 spores/m³). Concentrations decreased year to year, probably due to the increase of rain and decrease of temperature. Maximum monthly average values were recorded in September and October (Don Benito and Plasencia) or during May and June (in the case of Zafra). With respect to analysis with daily weather parameters, statistically significant correlations appeared in 51 cases out of 63. In the hourly analysis, positive significant correlations were found with temperature, and negative with relative humidity and rain. Daily spores sums were the highest in Don Benito when wind blew from west (proceeding to irrigated crops and grassland pastures), then in Plasencia that did not showed a clear pattern and finally, and the lowest in Zafra, when wind blew from west (grassland pastures).

Conclusions. Don Benito, where there were much irrigated crops and grassland pastures surrounded the city, showed the maximum concentrations. Airborne conidia of *Alternaria* were higher when temperature recorded were high and rainfall was low. Bimodal seasonal distributions were found. It seems that the weather parameters and land uses were important factors for explain the *Alternaria* concentrations.