2010 floramac

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Organisers

CCPA · CIBIO Açores · azorean biodiversity group · Universidade dos Açores

International Symposium FloraMac2010

23-25 September 2010

Ponta Delgada, Azores, Portugal

Funding

DRCTC
DIRECÇÃO REGIONAL DA CIÊNCIA, TECNOLOGIA E COMUNICAÇÕES

International Symposium
FloraMac2010

23-25 September 2010

Ponta Delgada, Azores, Portugal

Organisers

CCPA Centro de Conservação e Protecção do Ambiente
CIBIO Centro de Investigação em Biodiversidade e Recursos Genéticos, Pólo Açores

Organizing Committee

Universidade dos Açores
Luís Silva • Mónica Moura • Graciete Maciel • Ana Isabel Neto • Rosalina Gabriel

Universidade da Madeira
Miguel Sequeira

Jardin Botánico Canario "Viera y Clavijo" – Unidad Asociada CSIC
Juli Caujapé Castells

Instituto Nacional de Investigação e Desenvolvimento Agrário
Isildo Gomes • Samuel Gomes

Natural History Museum
Mark Carine • Fred Rumsey

Harvard University, Department of Organismic and Evolutionary Biology
Hanno Schäfer

Instituto de Investigação Científica Tropical
Maria Romeiras

Keynote speakers

David Bramwell
José Luis Martín Esquível
José María Fernández-Palacios
Juli Caujapé Castells
Ricardo Haroun
Robert J Whittaker

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General Program

23-09-2010
Phylogenetics & Biogeography

08:30 Registration
09:30 Opening session
10:00 Session conference
10:30 Coffee break
11:00 Oral presentations
13:00 Lunch
14:00 Session conference
14:30 Oral presentations
15:30 Poster Session / Coffee break
16:00 Oral presentations
18:30 End of the day
19:00 Reception of participants

24-09-2010
Ecology & Conservation

09:00 Session conference
09:30 Oral presentations
10:30 Coffee break
11:00 Oral presentations
13:00 Lunch
14:00 Session conference
14:30 Oral presentations
15:30 Poster Session/Coffee break
16:00 Oral presentations
18:00 End of the day
20:00 Symposium dinner

25-09-2010
Ethnobotany & Plant Resources

09:00 Session conference
09:30 Oral presentations
10:30 Poster Session/Coffee break
11:00 Session conference
11:30 Conclusions of the symposium
12:00 Closing session
12:45 Lunch
14:30 Workshops
- DEMIURGO project meeting
- BIOCLIMAC project meeting
- Macaronesian Herbaria
- Conservation of Bryophytes in Macaronesia
- Edition of a Flora of Macaronesia

15:30 Coffee break

26-09-2010
Post-symposium Tour

08:30 Arrival of participants
09:00 Departure from the University Campus
09:30 Indigenous and non-indigenous species in the south coast
10:30 Lagoa do Fogo Nature Reserve – Indigenous and non-indigenous species
11:30 Porto Formoso tea plantations
12:30 Terra Nostra Gardens and swimming pool – Indigenous and non-indigenous species
13:30 Traditional Furnas Lunch
15:00 Visit to hotsprings
15:30 Lagoa das Furnas – Indigenous and non-indigenous species
17:00 Departure to Ponta Delgada

Fred Rumsey, moderator

14: 00 Session conference

Conserving the existing knowledge on biodiversity's genetic diversity: implications for the conservation of the Macaronesian floras
Caujapé-Castells J

14:30 Oral presentations

***Ex-situ* conservation of threatened bryophytes: *Orthotrichum handiense* (Fuerteventura, Canary Islands)**
Pérez-Álvarez JR, Werner O, Patiño J, González-Mancebo JM, & Ros RM

Improving *in vitro* rooting and acclimatization of micropropagated *Vaccinium cylindraceum* Smith (*Ericacaeae*) plants to *ex vitro* conditions
Sequeira J & Pereira MJ

Germination of the endangered Azorean cherry *Prunus azorica*
Orlanda M, Martins J, Silva L & Moura M

Dormancy and germination of the Azorean endemic tree *Picconia azorica*
Martins J, Orlanda M, Silva L & Moura M

15:30 Poster Session / Coffee break

24. **Insular patterns of genetic diversity and structure of the aquatic moss *Platyhypnidium riparioides* in Macaronesia**
Hutsemékers V, Szovényi P, Shaw AJ, Gonzalez-Mancebo JM & Vanderpoorten A
25. **Genetic diversity and differentiation among *Sorbus aria* populations from National Parks of the Canary Islands**
González-Pérez MA, González-González EA, Rivero E & Sosa PA
26. **DEMIURGE: a fashioner of molecular information to reveal the knowledge that hides behind genotype matrices**
Medina DA, Sabbagh I, Bethencourt C, Quintana-Trujillo FM, Rodríguez JF, Toledo J & Caujapé-Castells J
27. **Project DEMIURGO: studying population genetics of the Azorean endemic Plants**
Sardos J, Silva L, Maciel G & Moura M
28. **Transformer-4: implementing effective urgency in population genetic data analysis**
Quintana-Trujillo FM, Sabbagh I, Rodríguez JF & Caujapé-Castells J
29. **Vegetation of Caldera de Taburiente National Park (La Palma Canary Islands)**
Garzón-Machado V, Del-Arco-Aguilar MJ & Pérez-de-Paz PL
30. **Plant functional types in the dry forest of *Juniperus turbinata* subsp *canariensis* on El Hierro Island (Canary Islands)**
Romo-Díez A & Salvà-Catarineu M
31. **Coralline algae, structuring organisms of warm temperate intertidal communities**
Couto RP, Rodrigues AS & Neto AI
32. **Floristic account and seasonal variation of epiphytic diatom communities on five Gelidiaceae (Rhodophyta) species from Gran Canaria (Canary Islands, Spain)**
Viera-Rodríguez MA, De Stefano M, Polifrone M & Stroobant M

Plant functional types in the dry forest of *Juniperus turbinata* subsp. *canariensis* on El Hierro Island (Canary Islands)

Romo-Díez[1] A & Salvà-Catarineu[2] M

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[2] Departament Geografia Física i Anàlisi Geogràfica Regional, Facultat de Geografia i Història, C. Montalegre, 6, 08001 Barcelona, España. (salva@ub.edu)

Can plant functional types be used as indicators of the conservation status and the dynamics of the *Juniperus* dry forest ecosystems? In order to test this hypothesis the juniper dry forest vegetation on El Hierro Island was recorded in different localities and altitudes. It was studied using morphological and functional traits of vascular plants living in this kind of dry forest. A set of functional traits, catalogued as soft functional traits, was chosen: growth form, life form, photosynthetic organs, leaf colour, leaf tomentosity, leaf phenology, leaf live span, stationality of photosynthesis organs, spinescence, flower colour, pollination type, regenerative strategy, kind of fruit; seed dissemination; duration of photosynthetic activity of leaves and stems; life span of plant in years and present status. In the present study the different groups of Plant Functional Types are related to the most important plant communities described for Juniper dry forest on El Hierro Island.
Keywords: conservation, dynamics, forestry.

Coralline algae, structuring organisms of warm temperate intertidal communities

Couto[1,2,3] RP, Rodrigues[1,3] AS & Neto[1,2,3] AI

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[2] CIIMAR (Centro Interdisciplinar de Investigação Marinha e Ambiental), Rua dos Bragas 289, 4050-123, Porto, Portugal.
[3] CIRN (Centro de Investigação de Recursos Naturais), University of the Azores, 9501-801 Ponta Delgada, Portugal.

Coralline algae can be the most abundant and conspicuous algae in established warm-temperate intertidal assemblages. Aimed at evaluating the relative abundance and distribution patterns of articulated corallines in the Azorean intertidal, quantitative surveys were performed at four islands of the archipelago along a shore gradient and at different rocky substrate categories (cobbles, boulders and bedrock). Results show that erect coralline algae dominate low-shore bedrock habitats in the Azores either as turf or as frondose morphotypes, and are also well established on unstable substrates like cobbles and boulders mainly as turfs. They are thus of great functional importance for the whole marine ecosystem in this region.
Keywords: Azores; rocky shores; Corallinaceae.