

SCIENTIFIC PROGRAM

2nd International APLE-APLF Congress

XIX Symposium Asociación de Palinólogos de Lengua Española, APLE
XXIII Symposium Association des Palynologues de Langue Française, APLF

POLLEN BIOTECHNOLOGY, DIVERSITY AND FUNCTION IN A CHANGING ENVIRONMENT



Time	Tuesday 17th September	Wednesday 18th September	Thursday 19th September	Friday 20th September
8,30-10,00h		Session 1a, 1b Applied palynology, bee pollination (room A) Session 2 Paleoceanography (room B)	Session 6a Airborne pollen and spores (room A) Session 7a Landscape change (room B)	Session 6c Airborne pollen and spores (room A) Session 7c Landscape change (room B)
10,00-10,30h		Coffee break	Coffee break	Coffee break
10,30-11,30h		Plenary Lecture <i>Iñaki Hormaza</i> (room A)	Visit to Posters	Closing Plenary Lecture <i>Donatella Magri</i> (room A)
11,30-12,30h	Registration and Documents	Visit to Posters		Closing ceremony
12,45h		Lunch	Lunch	Lunch
14,30-15,00h	Opening ceremony	Session 3 Pollen morphology and development (room A) Session 4a Paleoenvironment and Paleoclimate (room B)	Session 6b Airborne pollen and spores (room A) Session 7b Landscape change (room B)	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> Saturday 21th September Post-Congress </div>
15,00-16,00h	Opening Plenary Lecture <i>Thomas Servais</i> (room A)			
16,00-16,30h		Coffee break	Coffee break	
16,30-17,30h	Workshop New Methodological Advances in Palynology Research and Imaging (room A)	Session 5 Pollen Biotechnology and Genetics (room A) Session 4b Paleoenvironment and Paleoclimate (room B)	Visit to Posters	
17,30-18,30h			Assembly APLE (room A) Assembly APLF (room B)	
19,00h	Welcome cocktail		Congress Dinner	

TUESDAY, 17th September

Room A: Auditorium of the CSIC Central Building

15,00h-16,00h: Opening Plenary Lecture (PL-01)

The evolution of the phytoplankton during the Phanerozoic: relation to sea-level, climate and CO₂

Thomas Servais (CNRS, Lille, France)

16,30h- 18,30h: Workshop

“New Methodological Advances in Palynology Research and Imaging”

Chairpersons: Cristina Pardo (UCM, Madrid, Spain), José M. López-Cepero (Univ. Cádiz, Spain)

16,30h-17,00h: WORKSHOP LECTURE (W-L-01)

New frontiers in paleopalynology

Donatella Magri (Sapienza Univ., Rome, Italy)

17,00h-17,30h: WORKSHOP LECTURE (W-L-02)

Cryoimmobilization techniques in TEM for in situ molecular recognition in pollen studies

Carmen López Iglesias (CCIT Univ. Barcelona, Spain)

17,30h-18,00h: WORKSHOP LECTURE (W-L-03)

Optical and digital image processing applied to pollen and palynomorph analysis

Gabriel Cristobal (Inst. Óptica, CSIC, Madrid, Spain)

18,00h-18,30h: WORKSHOP LECTURE (W-L-04)

Quantitative approaches to pollen analysis: the role of super-resolution microscopy, machine learning, and bioimage informatics

Surangi W. Punyasena (Univ. Illinois, USA)

WEDNESDAY, 18th September

Room A: Auditorium of the CSIC Central Building

8,30h-10,15h

Session 1: Applied palynology, bee pollination and diseases

Session 1a

Chairpersons: Yves Loublier (INRA, France), Carmina Gómez Ferreras (UCM, Madrid, Spain)

8,30h-8,55h: INVITED LECTURE (S1-L-01)

A practical example of a multidisciplinary collaborative work to understand the honey bee colony losses: from palynology to bee pathology

Raquel Martín (Agronomic Center of Marchamalo, Spain)

8,55h-9,10h: ORAL COMMUNICATION (S1-O-01)

Pollen diversity associated to olive orchards-visiting bees

Alché JD, Fernández-Sierra ML, Rodríguez-Sánchez A, García-Quirós E, M. Campos

Session 1b

Chairpersons: Raquel Martín (Agronomic Centre, Marchamalo, Spain), Marzia Boi (Univ. Islas Baleares, Spain)

9,10h-9,35h: INVITED LECTURE (S1-L-02)

Assessing the impact of declining pollinators on world agriculture

Bernard Vaissiere (INRA, Avignon, France)

9,35h-10,00h: INVITED LECTURE (S1-L-03)

Pollen grain as bioindicator

José María Moreno (Tech. Univ. Cartagena, Spain)

10,00-10,15h: ORAL COMMUNICATION (S1-O-02)

The importance of pollen morphology in the Christian relic of the Shroud of Turin

Marzia Boi

Room B: Auditorium of Rocasolano Institute

8,30h-10,00h

Session 2: Paleoceanography, dinocysts and acritarchs

Chairpersons: Thomas Servais (CNRS, Lille, France), Frédérique Eynaud (Univ. Bordeaux 1, Talence, France)

8,30h-9,00h: INVITED LECTURE (S2-L-01)

Worldwide paleogeography of Aptian and Albian dinoflagellate cysts: Implication for sea-surface temperature gradients and paleoclimate

Edwige Masure (CNRS-Univ. Paris, France)

9,00-9,15h: ORAL COMMUNICATION (S2-O-01)

Toxic dinoflagellates and their benthic cysts: the revival strategy ! A review for western European and Mediterranean margins

Eynaud F, Penaud Aurélie, M-H. Castera

9,15-9,30h: ORAL COMMUNICATION (S2-O-02)

Deglacial changes over the last 20 000 years in the Equatorial Atlantic: a high-resolution dinocyst analysis

William Hardy, Aurélie Penaud, Fabienne Marret-Davies, Laurence Droz, Tania Marsset, Bernard Dennielou

9,30-9,45h: ORAL COMMUNICATION (S2-O-03)

Tethyan Albian dinoflagellate cyst assemblages in coastal and fully marine environments (Portuguese basin and DSDP site 398D).

Raquel Sánchez-Pellicer; Edwige Masure

9,45-10,00h: ORAL COMMUNICATION (S2-O-04)

Last-glacial oceanic conditions south of the Faeroe Shetland Gateway

Wary Mélanie, Eynaud Frédérique, Rossignol Linda, Zaragosi Sébastien, Malaizé Bruno, Michel Elizabeth, Penaud Aurélie, Caulle Clémence, Zumaque Jena

Room A: Auditorium of the CSIC Central Building

10,30h-11,30h: Plenary Lecture (PL-02)

Pollen development and pollen-pistil interactions in the early-divergent angiosperm

Annona cherimola

Iñaki Hormaza (EE La Mayora, CSIC, Málaga, Spain)

Room A: Auditorium of the CSIC Central Building

14,30h-16,00h

Session 3: Pollen morphology, development and germination

Chairpersons: Maribel Rodríguez (EEZ, CSIC, Granada, Spain), Mari Carmen Fernández (Univ. Granada, Spain)

14,30h-15,00h: INVITED LECTURE (S3-L-01)

AGPs cross-talk in Arabidopsis pollen-pistil interactions”

Silvia Coimbra (BioFig, Univ. Porto, Portugal)

15,00h-15,15h: ORAL COMMUNICATION S3-O-01

Electrophoretic profiling and immunocytochemical detection of pectins and arabinogalactan proteins during olive pollen germination and pollen tube growth
Krzysztof Zienkiewicz, Antonio Jesús Castro, Cynthia Suárez, Juan de Dios Alché, Agnieszka Zienkiewicz, María Isabel Rodríguez-García

15,15h-15,30h: ORAL COMMUNICATION S3-O-02

New insights into the early steps of lipid body mobilization during pollen germination
Agnieszka Zienkiewicz, Krzysztof Zienkiewicz, Juan de Dios Alché, María Isabel Rodríguez-García, Antonio Jesús Castro

15,30h-15,45h: ORAL COMMUNICATION S3-O-03

The phosphorylated pathway of serine biosynthesis is essential for Arabidopsis pollen maturation.

Walid Toujani, María Flores-Tornero, Armand D. Anoman, Sara Rosa-Tellez, Jesús Muñoz-Bertomeu, Roc Ros

15,45h-16,00h: ORAL COMMUNICATION S3-O-04

RX microtomography in studies of floral development in plants

Ana T. Romero , Samira Ben-Menni Schuler, Víctor Suárez Santiago, Dolores Garrido & Javier Alba Tercedor**

Room B: Auditorium of Rocasolano Institute

14,30h-16,00h

Session 4: Paleoenvironment and paleoclimate

Chairpersons: María Fernanda Sánchez-Goñi (Univ. Bordeaux, France), Donatella Magri (Sapienza Univ., Roma, Italy)

Session 4a

14,30h-15,00h: INVITED LECTURE (S4-L-01)

Long continental pollen sequences: a state of the art”

Jacques-Louis de Beaulieu (CNRS-Univ. Aix-Marseille, France)

15,00h-15,15h: ORAL COMMUNICATION S4-O-01
European climate optimum and enhanced Greenland melt during the Last Interglacial
Maria Fernanda Sánchez Goñi, Pepijn Bakker, Stéphanie Desprat, Anders E. Carlson,
Cédric J. Van Meerbeeck, Odile Peyron, Filipa Naughton, William J. Fletcher,
Frédérique Eynaud, Linda Rossignol, and Hans Renssen

15,15h-15,30h: ORAL COMMUNICATION S4-O-02
Cedrus atlantica in the Middle Atlas Morocco: an interglacial refugium
Cheddadi, R. Nourelbait, M., Fady, B. & Rhoujjati, A.

15,30h-15,45h: ORAL COMMUNICATION S4-O-03
Responses of a neotropical interglacial microrefugium to climate instability
Vincent Montade

15,45h-16,00h: ORAL COMMUNICATION S4-O-04
Progress in the identification of Pinus pollen grains at a specific level in the Iberian Peninsula records
Stéphanie Desprat, Pedro Manuel Díaz Fernández, Maria Fernanda Sánchez Goñi, Luis A. Gil Sánchez, Tabatha Coulon, Leila Ezzat, Julien Pessarossi-Langlois, Ludovic Devaux

Room A: Auditorium of the CSIC Central Building

16,30h-19,00h

Session 5: Pollen Biotechnology and Genetics

Chairpersons: María Carmen Risueño (CIB-CSIC, Madrid, Spain), José María Seguí-Simarro (COMAV, UPV, Valencia, Spain)

16,30h-17,00h: INVITED LECTURE (S5-L-01)
Engineering male sterility as a tool to decrease pollen-caused allergies
José Pío Beltrán (IBMCP, CSIC-UPV, Valencia, Spain)

17,00-17,30h: INVITED LECTURE (S5-L-02)
Drive in favour of a parasite chromosome during pollen mitosis and effects on histone H3 methylation pattern
María Jesús Puertas (Univ. Complutense, Madrid, Spain)

17,30h-17,45h: ORAL COMMUNICATION S5-O-01
Pollen embryogenesis in Citrus sinensis L. Osbeck cv. Moro, a blood orange cultivar
Ahmed Abdelgallel, Benedetta Chiancone, Orietta Lain, Raffaele Testolin, Ahmed-Abdalla El Tantawy, María-Carmen Risueño, Pilar S. Testillano, Maria Antonietta Germanà

17,45h-18,00h: ORAL COMMUNICATION S5-O-02

Arabinogalactan proteins expression and distribution patterns, early markers of microspore embryogenesis

María-Teresa Solís, Ahmed-Abdalla El-Tantawy, Mario Da Costa, Silvia Coimbra, María-Carmen Risueño, Pilar S. Testillano

18,00h-18,15h: ORAL COMMUNICATION S5-O-03

Massive autophagy and excretion-based cytoplasmic cleaning during Brassica napus microspore embryogenesis

Jose M. Seguí-Simarro, Patricia Corral-Martínez and Verónica Parra-Vega

18,15h-18,30h: ORAL COMMUNICATION S5-O-04

Induction of the sporophytic pathway in pollen from Quercus Ilex l. Anther cultures

Beatriz Pintos , Nieves Sánchez , M^a Ángeles Bueno , Rafael M^a Navarro , Jesús Jorrín , José Antonio Manzanera , Aranzazu Gómez-Garay

18,30h-18,45h: ORAL COMMUNICATION S5-O-05

Gametophytic-to-esporophytic switch in microspores of sweet orange genotypes

Jean C Cardoso; Rodrigo R. Latado; Maria A. Germanà; Adriana P. Martinelli

18,45h-19,00h: ORAL COMMUNICATION S5-O-06

A multiplex system to analyse the expression of allergens and other gene products of interest in the olive pollen.

Sonia Morales Santana , Antonio Jesús Castro López , José Carlos Jiménez López , Adoración Zafra Álvarez , M^a José Jiménez Quesada , José Fernando Florido, María Isabel Rodríguez García , Juan De Dios Alché Ramírez .

Room B: Auditorium of Rocasolano Institute

16,30h-18,30h

Session 4: Paleoenvironment and paleoclimate

Chairpersons: María Fernanda Sánchez-Goñi (Univ. Bordeaux, France), Donatella Magri (Sapienza Univ., Roma, Italy)

Session 4b

16,30h-17,00h: INVITED LECTURE (S4-L-02)

Climate and vegetation change during the Holocene in southern Iberia

Gonzalo Jiménez Moreno (Univ. Granada, Spain)

17,00h-17,15h: ORAL COMMUNICATION S4-O-05

The climate of the Mediterranean basin during the Holocene from terrestrial and marine pollen data: A model/data comparison

O. Peyron , N. Combourieu-Nebout , S. Goring , D. Brayshaw , M. Magny , I. Dormoy , S. Joannin , J.-L. de Beaulieu , E. Brugiapaglia⁸, S. Desprat , W. Fletcher , U. Kotthoff , K. Kouli , J. Pross , L. Sadori , M.F. Sánchez-Goñi

- 17,15h-17,30h: ORAL COMMUNICATION S4-O-06
Past environmental changes in the western Rif mountains, Morocco: A new pollen record
O. Bouaissa, A. Merzouki, A. Rhoujjati & R. Cheddadi
- 17,30h-17,45h: ORAL COMMUNICATION S4-O-07
Impact of climatic change and human activities on vegetation dynamics in coastal Syria
Mathis M., Sorrel Ph., Geyer B., Goiran J-Ph., Marriner N.
- 17,45h-18,00h: ORAL COMMUNICATION S4-O-08
Past environmental changes and their impacts on the Lebanese Cilician fir
Lara Awad, Bruno Fady, Carla Khate and Rachid Cheddadi
- 18,00h-18,15h: ORAL COMMUNICATION S4-O-09
Holocene rapid climate changes as recorded in northwestern France (Grande Vasière): high resolution dinocyst analysis over the last 9000 years.
Axelle Ganne, Aurélie Penaud, William Hardy, Samuel Toucanne, Filipa Naughton, Frédérique Eynaud et Jean-François Bourillet
- 18,15h-18,30h: ORAL COMMUNICATION S4-O-10
Palynology in fluvio-estuarine environment : the example of Nantes (northwestern France)
Axelle Ganne, Chantal Leroyer, Aurélie Penaud, Evelyne Goubert, Valérie Lecadre, Rémy Arthuis

THURSDAY, 19th September

Room A: Auditorium of the CSIC Central Building

8,30h-10,00h

Session 6: Airborne pollen and spores: environmental indicators and allergens

Chairpersons: Delia Fernández (Univ. León, Spain), Carmen Galán Soldevilla (Univ. Córdoba, Spain)

Session 6a

8,30h-9,00h: INVITED LECTURE (S6-L-01)

Factors involved in pollen germination could have a role also in allergic sensitization
Stefano del Duca (Univ. Bologna, Italy)

9,00h-9,15h: ORAL COMMUNICATION S6-O-01

Hourly dynamics of airborne pollen in the southeast of Castilla-La Mancha
Consolación Vaquero del Pino, Ana Rapp Benito, Jesús Rojo Úbeda & Rosa Pérez Badia

9,15h-9,30h: ORAL COMMUNICATION S6-O-02

A semi-automatic pollen recognition system for aerobiological monitoring
Estela Díaz López, Consolación Vaquero del Pino, Ana Rapp Benito, Jesús Rojo Úbeda, Rosa Pérez Badia, Mariano Rincón Zamorano

9,30h-9,45h: ORAL COMMUNICATION S6-O-03

Detection of Ole e 1 protein, major allergen of Olea europaea L., in rainwater.
J. García-Sánchez, M.M. Trigo, M. Recio & B. Cabezudo

9,45h-10,00h: ORAL COMMUNICATION S6-O-04

Relationship between ornamental Pinaceae trees density and their airborne pollen in an urban environment

J. M. Maya, S. Fernández, I. Silva, Á. Gonzalo, R. Tormo, L. Fernández, J. V. Alfonso, P. Vaquero, M. L. Pérez, P. Cosmes, R. M. Blanco, C. Domínguez

Room B: Auditorium of Rocasolano Institute

8,30h-10,00h

Session 7: Landscape change and human-environment interactions

Chairpersons: Blanca Ruiz Zapata (Univ. Alcalá, Spain), Walter Finsinger (CNRS, Montpellier, France)

Session 7a

8,30h-9,00h: INVITED LECTURE (S7-L-01)

From pristine landscape to agriculture : vegetation history and human impact in South Greenland during the last millennium

Emilie Gauthier (Univ. Franche-Comté, Besançon, France)

9,00h-9,15h: ORAL COMMUNICATION S7-O-01

Local hominin mobility in response to middle pleistocene environmental dynamics in central and southern Italy

R. Orain, V. Lebreton, E. Russo Ermolli, A.-M. Sémah, S. Nomade, Q. Shao, J.-J.

Bahain, U. Thun Hohenstein, C. Peretto

9,15h-9,30h: ORAL COMMUNICATION S7-O-02

Holocene changes in pollen-based vegetation composition in N-NW Europe: why does quantitative reconstruction matters?

Laurent Marquer, Marie-José Gaillard, Shinya Sugita, Anneli Poska, Anna-Kari

Trondman, Florence Mazier, Anne Birgitte Nielsen, Ralph Fyfe, and Data Contributors

9,30h-9,45h: ORAL COMMUNICATION S7-O-03

Pollen and NPP analysis of the Holocene palaeoenvironmental sequence of Qallimiut (SW Greenland)

Currás, A.; Guillemot, T.; Massa, C.; Bichet, V.; Richard, H.; Gauthier, E.

9,45h-10,00h: ORAL COMMUNICATION S7-O-04

Persistence of cold-adapted species through the Holocene in the Spanish Central System

D. Abel Schaad, F.J. Pulido Díaz, J.A. López Sáez, S. Pérez Díaz, F. Alba Sánchez, F.

Franco Múgica, B. Ruiz Zapata, M.J. Gil García, M. Dorado Valiño

Room A: Auditorium of the CSIC Central Building

14,30h-16,00h

Session 6: Airborne pollen and spores: environmental indicators and allergens

Chairpersons: Delia Fernández (Univ. León, Spain), Carmen Galán Soldevilla (Univ. Córdoba, Spain)

Session 6b

14,30h-15,00h: INVITED LECTURE (S6-L-02)

Pollen counts and aeroallergen quantification in the atmosphere: overview and current status

María del Mar Trigo (Univ. Málaga, Spain)

15,00h-15,15h: ORAL COMMUNICATION S6-O-05

Study of floral phenology of the olive tree (Olea europaea L.) using geostatistical techniques

Jesús Rojo Úbeda, Consolación Vaquero del Pino, Ana Rapp Benito, Rosa Pérez Badia

15,15h-15,30h: ORAL COMMUNICATION S6-O-06

New statistical approaches in long term pollen trend analysis: application to the olive pollen series in South Spain

Yaezel, L., García-Mozo, H. , Oteros, J. & Galán, C.

15,30h-15,45h: ORAL COMMUNICATION S6-O-07

The First Airborne Pollen calendar of Mexico City (2008-2013)

M.C. Calderón, F. Fuentes, T. Robledo, C. Guerrero, F. Tellez, I. López, B. Martínez, A. Martínez, L. Quiroz, A. Guidos and M.M. Trigo.

15,45h-16,00h: ORAL COMMUNICATION S6-O-08

Fraxinus airborne pollen in the atmosphere of Mexico City

M.M. Trigo, T. Robledo, I. López, C. Guerrero, F. Tellez, L. Quiroz, A. Martínez, M. Recio F. Fuentes, M. Olive, and M.C. Calderón

Room B: Auditorium of Rocasolano Institute

14,30h-16,00h

Session 7: Landscape change and human-environment interactions

Chairpersons: Blanca Ruiz Zapata (Univ. Alcalá, Spain), Walter Finsinger (CNRS, Montpellier, France)

Session 7b

14,30h-15,00h: INVITED LECTURE (S7-L-02)

Landscape history studies: an integration of pollen analyses, multi-proxy records and archaeological data

Santiago Riera (Univ. Barcelona, Spain)

15,00h-15,15h: ORAL COMMUNICATION S7-O-05

On the origins of highly human-transformed landscapes: the case of the Castilian Plateau (NW Spain)

César Morales-Molino, Mercedes García-Antón, Carlos Morla

15,15h-15,30h: ORAL COMMUNICATION S7-O-06

Prehistorical hunting and pastoral activities in the remote and marginal karstic landscape of the “Silberer Plateau” (Muotathal Alps, Canton of Schwyz, Switzerland)

Jean Nicolas Haas, Notburga Wahlmüller, Thilo Kappelmeyer, Benjamin Dietre, Irka Hajdas, Urs Leuzinger, Walter Imhof

15,30h-15,45h: ORAL COMMUNICATION S7-O-07

The Silvretta Massif in Switzerland: A hot-spot for the reconstruction of climatic and human impact on the European Alps by palynological means

Benjamin Dietre, Irina Anich, Thilo Kappelmeyer, Christoph Walser, Karsten Lambers, Thomas Reitmaier, Irka Hajdas & Jean Nicolas Haas

15,45h-16,00h: ORAL COMMUNICATION S7-O-08

The contribution of non-pollen palynomorphs to retrace reconstruct past pastoral dynamics in the western Pyrenees mountains (Ossau valley and Basque Mountains), France

Cugny C, Mazier F, D. Rius, Galop D

FRIDAY, 20th September

Room A: Auditorium of the CSIC Central Building

8,30h-10,00h

Session 6: Airborne pollen and spores: environmental indicators and allergens

Chairpersons: Delia Fernández (Univ. León, Spain), Carmen Galán Soldevilla (Univ. Córdoba, Spain)

Session 6c

8,30h-8,45h: ORAL COMMUNICATION S6-O-09

Relationship between trends in airborne pollen series in Catalonia (NE Spain) and the NAO and WeMO regional teleconnections

Marta Alarcon, Jordina Belmonte , Cristina Periago

8,45h-9,00h: ORAL COMMUNICATION S6-O-10

An integrated olive-crop yield-forecast model for the Mediterranean area.

Jose Oteros, Fabio Orlandi, Herminia García-Mozo, Fátima Aguilera, Ali Ben Dhiab, Tommaso Bonofiglio, Mounir Abichou, Luis Ruiz-Valenzuela, M^a del Mar Trigo, Consuelo Díaz de la Guardia, Eugenio Domínguez-Vilches, Monji Msallem, Marco Fornaciari, & Carmen Galán

9,00h-9,15h: ORAL COMMUNICATION S6-O-11

Phenology and Aerobiology of the Maidenhair tree (Ginkgo biloba): a living fossil for modern cities

Paloma Cariñanos, Alberto Amores, Damián Iglesias, Marcos Maroto, Cristina Orihuela, Consuelo Díaz de la Guardia

9,15h-9,30h: ORAL COMMUNICATION S6-O-12

Seasonality of Penicillium species in outdoor air in Badajoz

Santiago Fernández Rodríguez, Rafael Tormo Molina , José María Maya Manzano , Inmaculada Silva Palacios , Ángela Gonzalo Garijo

9,30h-9,45h: ORAL COMMUNICATION S6-O-13

The pollen content of the atmosphere on the Abomey campus during the dry season in Benin

Tossou G. Monique , Akoegninou Akpovi

9.45h-10,00h: ORAL COMMUNICATION S6-O14

Aerobiological and ecological study of the potentially allergenic ornamental plants in south Spain.

Velasco-Jiménez M.J., Alcázar P., Trigo M.M., Valle A., Minero F., Domínguez-Vilches E., Galán C.

Room B: Auditorium of Rocasolano Institute

8,30h-10,00h

Session 7: Landscape change and human-environment interactions

Chairpersons: Blanca Ruiz Zapata (Univ. Alcalá, Spain), Walter Finsinger (CNRS, Montpellier, France)

Session 7c

8,30h-8,45h: ORAL COMMUNICATION S7-O-09

Human management and microregional landscape variability of high altitude Eastern Pyrenees during historical times: the upper valleys of Ter and Tet

Santiago Riera, Yannick Miras, Yolanda Llergo, Ramon Julià, Aude Beauger, Ana Ejarque, Josep Maria Palet, Hèctor A. Orengo, Itxaso Euba, Arnau Garcia

8,45h-9,00h: ORAL COMMUNICATION S7-O-10

Pollen data and other archaeobotanical remains from the middle ages in wallonia (southern belgium): A review

Mona Court-Picon, Sidonie Preiss

9,00h-9,15h: ORAL COMMUNICATION S7-O-11

Environmental changes during the past 1000 years: a high-temporal-resolution multiproxy record from a mire in northern Finland

Walter Finsinger, Kristian Schoning, Sheila Hicks, Andreas Lucke, Tomasz Goslar, Friederike Wagner-Cremer, Heidi Hyyppa

9,15h-9,30h: ORAL COMMUNICATION S7-O-12

Climate and land-use changes during the four last millennia in Southern Alps (Italy) recorded at Lake Ledro

Sébastien Joannin, Michel Magny, Odile Peyron, Boris Vannièrè, Didier Galop

9,30h-9,45h: ORAL COMMUNICATION S7-O-13

Focus on humans and landscapes during the last millennium in a mid-level mountain area (Lake Remoray, Jura mountains, France): a multi-proxy approach including historical and palae

Murgia Laurie

9,45h-10,00h: ORAL COMMUNICATION S7-O-14

Highlighting environmental and climate changes in Vanuatu in connection with the early settlement of the Pacific - palynological study of Holocene deposits

Combettes Claire

Room A: Auditorium of the CSIC Central Building

11,00h-12,00h: Closing Plenary Lecture (PL-03)

Quaternary disappearance of tree taxa from Europe: timing and trends
Donatella Magri (Sapienza Univ., Roma, Italy)

Posters communications

Posters Session 1:

Applied palynology, bee pollination and diseases

POSTER COMMUNICATION S1-P-01

Pollen conservation tests over time: changes in quality, nutritious and healthy parameters, and microbiology analysis

Amelia Virginia González Porto & Cristina Pardo Martín

POSTER COMMUNICATION S1-P-02

Studying the daily harvesting of pollen by *Apis mellifera* L. (Galicia – NW Spain)

Sandra Armesto-Baztán & M^a Pilar de Sá-Otero

POSTER COMMUNICATION S1-P-03

Patterns of uncorrespondance between the palynological profile and the specifications of a Protected Designation of Origin: PDO “Miel de Granada” A case study.

S. Manzano, D. González, J.C. Bravo, A. Gallego, R.M. Garcinuño, C. Gómez Ferreras.

POSTER COMMUNICATION S1-P-04

Tracing the geographical origin of chestnut honeys with protected designation of origin “Miel de Granada” based on mineral content and melissopalynological profile

D. González, S. Manzano, J.C. Bravo, A. Gallego, R.M. Garcinuño, C. Gómez Ferreras.

POSTER COMMUNICATION S1-P-05

Pollen characterisation of honeydew honeys from NW Spain and their contribution as health food

Rodríguez-Flores M. Shantal, Escuredo Olga, Seijo M. Carmen

POSTER COMMUNICATION S1-P-06

In vitro pollen germination: effects of low and high temperature stress and pollen viability of GM and non-GM maize lines.

Alicia Tabasco, Pedro M. Díaz-Fernández, Aranzazu Gómez-Garay

POSTER COMMUNICATION S1-P-07

The investigation of morphologic and humidity analysis of the pollen grains collected by honeybees in Ardahan region of Turkey between 2010 and 2011

Deniz Canli; Kadriye Sorkun

POSTER COMMUNICATION S1-P-08

Molecular methods: a new antifraud methodology on bee pollen

Ana Lumbreras, Alberto Benavent, Amelia Virginia González Porto & Cristina Pardo

Posters Session 2: Paleoceanography, dinocysts and acritarchs

There are no posters presented to this session

Posters Session 3: Pollen morphology, development and germination

POSTER COMMUNICATION S3-P-01

Immunolocalization of arabinogalactan proteins (AGPs) and pectins in cork oak male flower and pollen

Amorim, M.I., Costa, M.L., Silva, R., Sobral R., Coimbra, S.

POSTER COMMUNICATION S3-P-02

PsPMEP a pollen-specific protein of pea (*Pisum sativum* L.) with homology to pectin methylesterases

Begoña Renau, María Dolores Gómez, Edelín Roque, Julio Polaina, José Pío Beltrán & Luis A. Cañas

POSTER COMMUNICATION S3-P-03

Pollen tube culture medium induces variations of cell wall associated proteins in *Arabidopsis thaliana*.

Costa, M., Pereira, L.G. and Coimbra, S.

POSTER COMMUNICATION S3-P-04

Immunocytochemical localization of allergenic proteins in *Plantago lanceolata* pollen grains

Z. González Parrado; A.M. Vega Maray; R.M. Valencia Barrera; C.R. Fuertes Rodríguez; R. Monsalve & D. Fernández González

POSTER COMMUNICATION S3-P-05

How methods, state, and source of the material can influence on discernibility of exine layers in *Quercus* pollen?

Tekleva M.V., Polevova S.V.

POSTER COMMUNICATION S3-P-06

A comparison of the tapeta within the family Papaveraceae s.l.: the presence and absence of Ubisch bodies.

M.C. Fernández, M.A. Pérez-Gutierrez, V.N. Suarez-Santiago and A.T. Romero

POSTER COMMUNICATION S3-P-07

Pollen morphology, ultrastructure and viability in *Vriesea ensiformis* (Vell.) Beer (BROMELIACEAE)

Sandra Santa Rosa, Monica Lanzoni Rossi, Adriana Pinheiro Martinelli

POSTER COMMUNICATION S3-P-08

Pollen grain morphology and viability in five *Eucalyptus* species

Mônica Lanzoni Rossi; Everton Hilo de Souza; Adriana Pinheiro Martinelli

POSTER COMMUNICATION S3-P-09

Pollen morphology, germination and viability in Bromeliaceae

Everton Hilo de Souza, Monica Lanzoni Rossi, Renan Machado Packer, Fernanda Vidigal Duarte Souza, Adriana Pinheiro Martinelli

POSTER COMMUNICATION S3-P-10
Pollen Morphology of Some Endemic *Silene* L. (Caryophyllaceae) taxa
Burcu Yılmaz Çitak, Hüseyin Dural, Yavuz Bağcı

POSTER COMMUNICATION S3-P-11
Comparative palynomorphological study of the genus *Euonymus* (Celastraceae)
Gavrilova O.A., Tarasevich V.F., Grigorieva V.V., Britski D.A., Pozhidaev A.E.,
Leunova V.M.

Posters Session 4: Paleoenvironment and paleoclimate

POSTER COMMUNICATION S4-P-01
Dynamics of cedar forests in the northern part of the Middle Atlas Mountains, Morocco
Tabel, J., C. Khater, A. Rhoujjati & R. Cheddadi

POSTER COMMUNICATION S4-P-02
OLEA-DP: a new application used to plot pollen.
T. Martín Arroyo, M.B. Ruiz Zapata, M.J. Gil García.

POSTER COMMUNICATION S4-P-03
Pollen record during the Eemian from the Fuentillejo maar-lake sequence (Ciudad Real, Spain).
M.J. Gil-García, M.B. Ruiz-Zapata, J. Vegas, A. García-Cortés, L. Galán, J.E. Ortiz, y J.M. García Rincón

POSTER COMMUNICATION S4-P-04
Migrations and climatic changes in South East Asia and Pacific areas
AM Sémah

POSTER COMMUNICATION S4-P-05
Carya, pollen indicator of quaternary refuge area in mediterranean Europe
R. Orain, V. Lebreton, E. Russo Ermolli, N. Combourieu-Nebout, A.-M. Sémah

POSTER COMMUNICATION S4-P-06
Holocene vegetation and climate changes in central Mediterranean inferred from a high-resolution marine pollen record (Adriatic Sea)
N. Combourieu-Nebout, O. Peyron, V. Bout-Roumzeilles, S. Goring, S. Joannin

POSTER COMMUNICATION S4-P-07
Palaeoenvironmental changes in Turonian-Coniacian Cerro de la Mesa sequence (Sierra de Guadarrama, Madrid, Spain) based on the palynological data analysis.
M^a Teresa Fernández Marrón, J.Fernando Fonollá Ocete y Javier Gil Gil

POSTER COMMUNICATION S4-P-08
Pollen analysis of three sequences in the Riologo peat bogs, Leon NW of Spain
M^a Amor Fombella Blanco, Emilio Puente García, Elena García-Rovés Fernández,
Ruth Rodriguez Pastor, Laura García Parada & Fco. Javier Ezquerro Boticario

POSTER COMMUNICATION S4-P-09

Pollen analyses of surface samples obtained from different sedimentary environments in the Vilaboa salt-marsh (Ría de Vigo).

Iria García Moreiras; José María Sanchez; Soledad García-Gil; Castor Muñoz Sobrino.

POSTER COMMUNICATION S4-P-10

Lateglacial early Holocene transition in SW Europe: a high resolution multiproxy record from Laguna de la Roya (NW Iberia).

García-Moreiras I., Heiri O., Hazekamp M., van der Velden D., Kirilova E.P., Lotter A.F., Muñoz Sobrino C.

POSTER COMMUNICATION S4-P-11

Paleoclimatic reconstruction based on archaeopalynological data: a novel approach

F. Alba Sánchez, J.A. López Sáez T. Nájera Colino, F. Molina González, S. Pérez Díaz & L.M. Quinzo Ortega

Posters Session 5:

Pollen biotechnology and genetics

POSTER COMMUNICATION S5-P-01

Anatomical anther development and anther culture in *Brachiaria* sp..

Andréa D. Koehler; Diva M. A. Dusi, Mônica L. Rossi; Renan M. Packer; Vera T. C. Carneiro, Adriana P. Martinelli

POSTER COMMUNICATION S5-P-02

ROS and differential stress responses of antioxidative systems during in vitro *Quercus suber* microspore embryogenesis.

Cristina Parra; Beatriz Pintos; José Antonio Manzanera; Pilar S. Testillano; Luisa Martín and Aranzazu Gómez-Garay

POSTER COMMUNICATION S5-P-03

Histological evidence for reprogramming of pollen grains in the cultured cassava anthers

P.I.P. Perera, C.A. Ordoñez and B. Dedicova

POSTER COMMUNICATION S5-P-04

DNA methylation and MET1a-like expression are regulated during pollen development and pollen embryogenesis

María-Teresa Solís, Manuel-Jesús Soriano, María C. Risueño, Pilar S. Testillano

POSTER COMMUNICATION S5-P-05

Early common markers of microspore and somatic embryogenesis in *Quercus suber*

Héctor Rodríguez-Sanz, José Antonio Manzanera, María-Carmen Risueño, Pilar S. Testillano

POSTER COMMUNICATION S5-P-06

Effect of various factors on microspore embryogenesis induction in two tunisian olive cultivars

M. Mtimet, B. Chiancone, M. Mars, A. Ferchichi, M.A. Germanà

Posters Session 6:

Airborne pollen and spores: environmental indicators and allergens

POSTER COMMUNICATION S6-P-01

“Región of Murcia” Aerobiological Network REaReMur. Preliminary data
Elvira-Rendueles B., Moreno JM, García-Sánchez A., Moreno-Grau S.

POSTER COMMUNICATION S6-P-02

Comparison between two adhesives in Hirst spore traps in a controlled environment
José María Maya Manzano, Santiago Fernández Rodríguez, Inmaculada Silva Palacios,
Ángela Gonzalo Garijo, Rafael Tormo Molina

POSTER COMMUNICATION S6-P-03

Quercus airborne pollen tendencies in the south of Iberian Peninsula, its correlation with meteorological trends and possible effect of the climatic change in mediterranean forests

Marta Recio, Maria Del Mar Trigo, Herminia García-Mozo H, Carmen Galán, Consuelo Díaz-De La Guardia, Luís Ruiz, Silvia Docampo & Baltasar Cabezudo

POSTER COMMUNICATION S6-P-04

Pollen Calendar of the atmosphere of Tetouan (NE Morocco): 2008-2011

N. Aboulaich, M.M. Trigo, H. Bouziane, M. Recio M. Kadiri, B. Cabezudo, H. Riadi & M. Kazzaz

POSTER COMMUNICATION S6-P-05

One year aeropalynological analysis of atmospheric pollens in Ankara, Turkey
Aydan Acar, N. Münevver Pinar, Talip Çeter, Yavuz Türkmen, Derya Şimşek

POSTER COMMUNICATION S6-P-06

Aerobiological survey in the Biosphere Reserve “Sierras de Francia y Béjar” (MW Spain)

David Rodríguez de la Cruz, Estefanía Sánchez Reyes, Alberto Martín Baz & José Sánchez Sánchez

POSTER COMMUNICATION S6-P-07

Relationship between aeroallergen Pla a 1, Platanus pollen and air pollutant

De Castro-Alfageme S., Fernández-González D., Valencia-Barrera R., Vega-Maray A., González-Parrado Z., Sánchez-Reyes, E., Mandrioli P.

POSTER COMMUNICATION S6-P-08

Incidence of fungi spores in the atmosphere of Tetouan (NW Morocco) and effect of the meteorological parameters

F. Bardei, H. Bouziane, M.M. Trigo Perez, N. Ajouray, F. El Haskouri, F. Filali Ben Sidel, R. Abiri, M. Kadiri, M. Kazzaz, H. Riadi

POSTER COMMUNICATION S6-P-09

Olive tree genetic background is a major cause of profilin (Ole e 2 allergen) polymorphism reflected in functional and allergenic variability

José Carlos Jiménez-López, María Isabel Rodríguez-García, Juan de Dios Alché

POSTER COMMUNICATION S6-P-10

Air pollen on the Island of Menorca (Spain) during the period 2006-2010

José Lu s Frontera, Gloria Florit, Marzia Boi, Leonardo Llorens

POSTER COMMUNICATION S6-P-11

Proteomics analysis of Holm oak pollen

Jos  Valero Galv n, Sekvan Demir, Jesus V. Jorri  Novo

POSTER COMMUNICATION S6-P-12

Relationship between the dynamic of atmospheric olive pollen and the flowering phenology in diverse geographic locations of the Ja n province

Luis Ruiz Valenzuela, Fatima Aguilera Padilla & Concepci  Mu oz Quesada

POSTER COMMUNICATION S6-P-13

Allergenic Pleosporales in home environments in Barcelona

 lvaro R a-Giraldo, Jordina Belmonte, Jorge Mart nez

POSTER COMMUNICATION S6-P-14

Incidence of Cupressaceae pollen in the atmosphere of M laga (Spain): 1992-2013

M. M. Trigo, L. L pez-Serrano, J. Garc a-S nchez, M. Recio, S. Docampo, M. Melgar & B. Cabezudo.

POSTER COMMUNICATION S6-P-15

Airborne detection of Pla a1 allergen, an important source of allergy in the cities

Rodr guez-Rajo, F.J., Vara, A., Fern ndez-Gonz lez, M., Guedes, A. & Abreu, I.

POSTER COMMUNICATION S6-P-16

A model to predict the concentration of airborne Platanus pollen in central Spain

Silvia Sabariego Ruiz, Ana Rapp Benito, Consolaci n Vaquero del Pino, Jes s Rojo  beda, Veronica Bouso Mu oz, Rosa P rez Badia

POSTER COMMUNICATION S6-P-17

Seasonal atmospheric pollen variations in Montevideo city: general trends of a 2 year survey.

Tejera, L., Beri, A., Mart nez-Blanco, X.

POSTER COMMUNICATION S6-P-18

Aeroallergens cross reaction detection among the Oleaceae family

Vara, A; Fern ndez-Gonz lez, M; Jato, V1; Su rez-Cervera, M, Aira, MJ & Rodriguez-Rajo, FJ

POSTER COMMUNICATION S6-P-19

Annual Atmospheric Polen Calendar of G m şhane, Turkey

Yavuz T rkmen, N. M nevver Pinar, Talip  eter, Aydan Acar, Derya Őimşek

Posters Session 7: Landscape change and human-environment interactions

POSTER COMMUNICATION S7-P-01

Palaeoenvironmental and vegetation changes during the Holocene in the NW sector of the Iberian Range (Cuenca del río Añamaza, NE Spain)

A.Gauthier, A. Luzón, A. Pérez, A. Muñoz, M.J. Mayayo

POSTER COMMUNICATION S7-P-02

All about yew: on the trail of *Taxus baccata* in SW Europe by means of integrated archaeobotanical studies

Uzquiano, P.; Allué, E.; Antolín, F.; Burjachs, F.; Piqué, R.; Ruiz-Alonso, M.; Zapata L.

POSTER COMMUNICATION S7-P-03

Expansion and decline of yew (*Taxus baccata* L.) in the Basque Mountains (Northern Iberian Peninsula) during the Holocene

Pérez-Díaz, S., López-Sáez, J. A., Ruiz-Alonso, M. Zapata, L.

POSTER COMMUNICATION S7-P-04

Pollen content in Muslim vessels found in Mallorca

Marzia Boi, José Luís Frontera, Gloria Florit, Jaume Deyà, Pablo Galera

POSTER COMMUNICATION S7-P-05

La Carisa roman site (Asturias) pollen data.

M.B. Ruiz Zapata , M.J. Gil García , T. Martín Arroyo , Ángela Sanchez , M. Jiménez Sánchez

POSTER COMMUNICATION S7-P-06

Scots pine (*Pinus sylvestris*) forests in the Spanish Central System. Phytosociological and palaeopalynological considerations.

López Sáez, J.A., Sánchez Mata, D., Alba Sánchez, F., Abel Schaad, D., Gavilán, R.G. & Pérez Díaz, S.

POSTER COMMUNICATION S7-P-07

Nomadic societies and pastoral pressure during the last 2000 years in the mountains of Arkhangai, Mongolia

I. Jouffroy-Bapicot, B. Vannière, D. Etienne, J. Magail

POSTER COMMUNICATION S7-P-08

Holocene vegetation, fire and climate interactions in western Spain: El Maíllo mire

César Morales-Molino; Mercedes García-Antón; José M. Postigo-Mijarra; Carlos Morla