

2018





I EAIAMP

Euroindoamerican Natural Products Meeting











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Welcome

Dear colleagues and friends,

The I Euroindoamerican Natural Products Meeting will be held in Madrid, Spain, in 2018 from May 29th to June ^{1st}, 2018. It is the first time that our city hosts this Congress, sponsored by the Phytochemical Society of Europe, Grupo de Productos Naturales-RSEQ, CSIC and Amity University. The purpose of this meeting is to bring together scientists and academia, research institutions, industry and government to report on basic and applied aspects of research on natural products from plants and microbes. The emphasis of this conference will be placed on presentations and discussions of fundamental and applied research and implementation of research projects on the discovery, development, safety and quality control, raw material supply, proper use of natural products. All interested individuals are encouraged to attend and engage in the exchange of scientific data and information. Networking and discussing with national and international experts in the field will make for a very enriching experience.

The city of Madrid will welcome us on this occasion and waits to show us the best of its museums, theaters, exhibitions, gastronomy, monuments, streets, people and surroundings. The venue of the Congress CSIC Auditorium is a beautiful historical building, comfortable, functional and well connected and it will ensure a pleasant ambient for the Meeting.

We are sure that all this will contribute to make an unforgettable days and to strengthen ties of collaboration and friendship with other professionals. We work for a pleasant and fruitful experience and wait for you in Madrid.

Azucena González-Coloma Maria Fe Andres Carmen Elisa Diaz IMPORTANT DATES

Deadline for abstracts submission: April 16th, 2018

Notification of acceptance: May

EIAMNP2018

- > Registration (/index.php/registration-accommodation/registration)
- > Accommodation (/index.php/registration-accommodation/accommodation? id=61)

- > Abstracts (/index.php/abstracts?id=80)
- > Programme (/index.php/programmes/programme-at-a-glance)
- > Venue (/index.php/general-information/venue-consejo-superior-de-investigaciones-cientificas-csic)

We started

Technical Secretariat

(http://www.pacifico-meetings.com)
☐ P° Gral Mtnez Campos 9.2° | Madrid

₽ 28010 Madrid-SPAIN

\ +34 913 836 000

■ eiamnp2018@pacifico-meetings.com (mailto:eiamnp2018@pacifico-meetings.com)

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MADRID

Institute of Agricultural Sciences, CSIC, Madrid





ABSTRACTS BOOK

NATURAL PRODUCTS, A FRAMEWORK TO SHARE RESEARCH AND SOCIAL INCLUSION

A. M. Mainar^{1,2}, J. I. Pardo^{1,2}, J. F. Martínez-López^{1,3}, J. Navarro-Rocha^{1,4}, E. Langa^{1,5}, M. R. Pino-Otín^{1,5}, J. S. Urieta^{1,2}

¹Grupo GATHERS, Universidad de Zaragoza, c/ Mariano Esquillor s/n, 50018-Zaragoza, Spain.

² I3A, Universidad de Zaragoza, c/ Mariano Esquillor s/n, 50018-Zaragoza, Spain. amainar@unizar.es

³Aragon Food Institute (IA2), Universidad de Zaragoza, F. Ciencias, 50009-Zaragoza, Spain.

⁴CITA, Unidad de Recursos Forestales, Avda. Montañana 930, 50059-Zaragoza, Spain.

⁵Universidad San Jorge, Campus Universitario Villanueva de Gállego, Zaragoza, Spain.

Keywords: Natural Products, Supercritical Fluid Technologies, Cosmetics, Social Exclusion Risk

The SPAGYRIA Project (1,8M€ EU Project) arises from the idea of taking advantage of all the fractions from natural product extracts obtained through green technologies. This idea was one of the main objectives of the TECHNOBIOCROP Project, led by A. M. Mainar under the coordination of A. González-Coloma.

But Project SPAGYRIA goes further than a research project:

- It is a project for cooperation, solidarity and innovation that aims to create a new line of plant extracts for the production of ecological cosmetics.
- It is a solidarity project that involves groups at risk of social exclusion (people with disabilities and marginalized people), and that will contribute to improve both their employability and so their quality of life.
- The project intends a capitalization of experience and the economic development of partners from each side of the Spanish-French border, both at the level of culture and aromatic plant conditioning and at the level of green fractionation process, manufacturing and testing.

In this work, we will present the structure of Project SPAGYRIA and some previous results concerning of supercritical concentration of active ingredients obtained from aromatic and medicinal plants and other vegetal species [1].

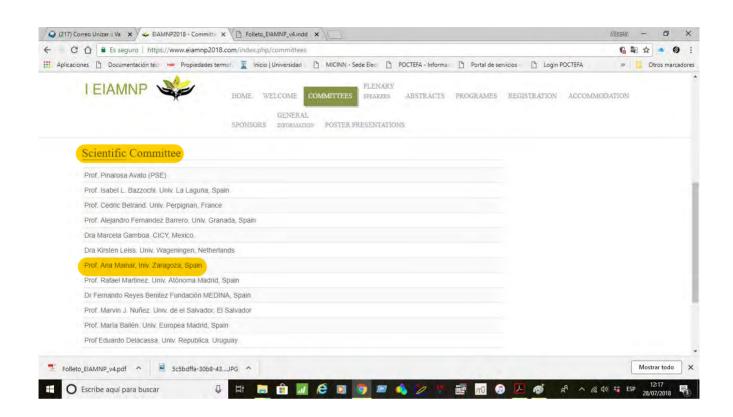
References

[1] C. Grosso, A. C. Figueiredo, J. Burillo, A. M. Mainar, J. S. Urieta, J. G. Barroso, J. A. Coelho, A. M. F. Palavra, J. Sep. Sci., 2008, Vol. 33 (14), 2211-2218.

The project has been 65% cofinanced by the European Regional Development Fund (ERDF) through the Interreg V-A Spain-France-Andorra programme (POCTEFA 2014-2020). POCTEFA aims to reinforce the economic and social integration of the French-Spanish-Andorran border. Its support is focused on developing economic, social and environmental cross-border activities through joint strategies favouring sustainable territorial development.

El proyecto ha sido cofinanciado al 65% por el Fondo Europeo de Desarrollo Regional (FEDER) a través del Programa Interreg V-A España-Francia-Andorra (POCTEFA 2014-2020). El objetivo del POCTEFA es reforzar la integración económica y social de la zona fronteriza España-Francia-Andorra. Su ayuda se concentra en el desarrollo de actividades económicas, sociales y medioambientales transfronterizas a través de estrategias conjuntas a favor del desarrollo territorial sostenible.





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Azucena González-Coloma

Maria Fe Andres

Carmen Elisa Diaz

VFNUF

Main Campus of the Spanish Research Council | (Consejo Superior de Investigaciones Científicas, CSIC) Calle Serrano 117. Madrid Teléfono: 954 46 22 22

SECRETARÍA TÉCNICA
P° Gral. Martínez Campos 9, 2°
28010, Madrid
+34 913 836 000
eiamnp2018@pacifico-meetings.com
www.eiamnp2018.com







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Precongress Workshop Metabolomics and Natural Products

May, Sunday 27 / Monday 2 8
Institute of Agricultural Sciences, CSIC, Madrid

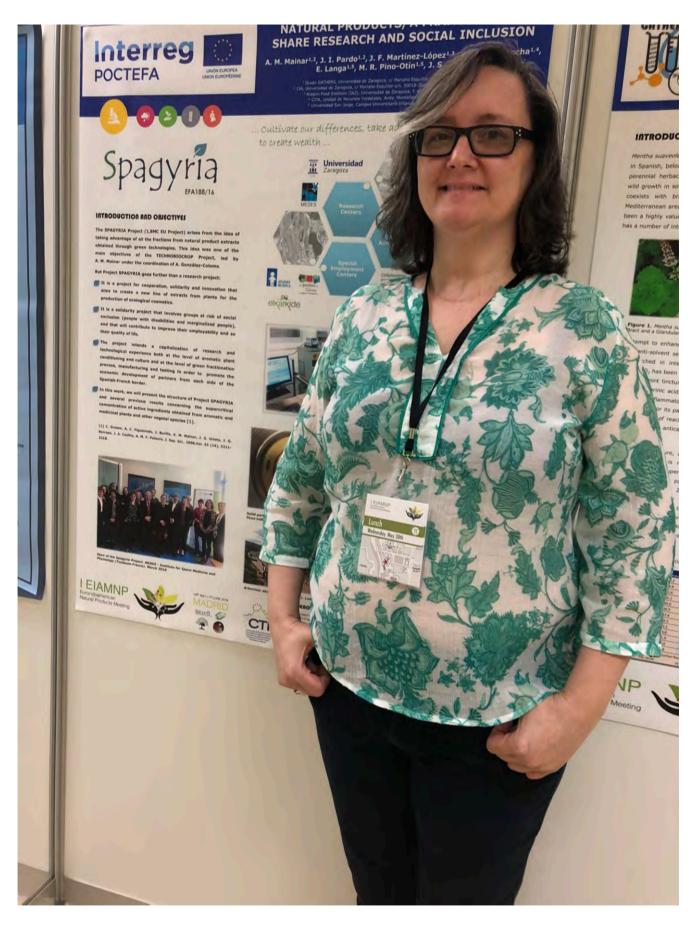
29th MAY			Tuesday
08:30-10:00	Registration	CSIC-ICA	
9:30-10:00	Cofee break	CSIC-Central	
10:00-10:30	Opening ceremony	CSIC-Central	
10:30-11:15	Plenary 1	CSIC-Central	
	Dr. Isidro Gonzalez Collado. <i>Metabolomic and genomic studies applied to the selective control of the phytopathogen botrytis cinerea.</i>		
11:15-12:30	Poster session	CSIC-ICA	
12:45-13:45	Lunch	CSIC-cafeterías	
14:00-14:45	Plenary 2	A. CSIC-ICA	B. CSIC-Central
	 A. Dr. Murray Isman. Commercial development of plant essential oils and their constituents as active ingredients in bioinsecticides. B. Dr. Carlos Jimenez. New treatments against aquaculture fish infection diseases based on the microbial iron uptake mechanism mediated by the 		
14:45-15:00	siderophore piscibacti Oral 1	A. CSIC-ICA	B. CSIC-Central
15:00-15:15	Oral 2	A. CSIC-ICA A. CSIC-ICA	B. CSIC-Central
15:15-15:45	Coffee break	CSIC-Central	b. Care-Certifial
15:45-16:00	Oral 3	A. CSIC-ICA	B. CSIC-Central
16:00-16:15	Oral 4	A. CSIC-ICA	B. CSIC-Central
16:15-17:00	• • • • • • • • • • • • • • • • • • • •	A. CSIC-ICA	B. CSIC-Central
10.13-17.00	A. Dr. Cedric Bertrand. A holistic approach for botanicals development within European context PPP regulation B. Dra. Virginia Lanzotti. NMR spectroscopy and mass spectrometry in metabolomics analysis of plants.		
18:00-20:00	Welcome Cocktel	CSIC-Central	
30th MAY			Wednesday
08:30-09:15	Plenary 4	A. CSIC-ICA	B. CSIC-Central
	 A. Dr. Pierluigi Caboni. Chemical synthesis of potent nematicides – a lesson from nature. B. Dr. Pedro Joseph-Nathan. Results from recent nmr and vcd studies of iberoamerican natural products. 		
09:15-09:30	Oral 5	A. CSIC-ICA	B. CSIC-Central

09:30-09:45	Oral 6	A. CSIC-ICA	B. CSIC-Central
09:45-10:15	Coffee break	CSIC-Central	
10:15-10:30	Oral 7	A. CSIC-ICA	B. CSIC-Central
10:30-10:45	Oral 8	A. CSIC-ICA	B. CSIC-Central
10:45-12:30	Poster session	CSIC-ICA	
12:45-13:45	Lunch	CSIC-cafeterías	
14:00-14:45	Plenary 5	A. CSIC-ICA	B. CSIC-Central
	 A. Dr. John Pickett. The Development of Natural Products Chemistry using Biotechnology for Sustainable Food Production: from Ecosystem Management to GM. B. Dr. Jose Quilez del Moral. Mirroing nature: "Magic" Chemistry. 		
14:45-15:00	Oral 9	A. CSIC-ICA	B. CSIC-Central
15:00-15:15	Oral 10	A. CSIC-ICA	B. CSIC-Central
15:15-15:30	Oral 11	A. CSIC-ICA	B. CSIC-Central
15:30-16:00	Coffee break	CSIC-Central	
16:00-16:45	Plenary 6	A. CSIC-ICA	B. CSIC-Central
	A. Dr. Carlos Céspedes. Cholinesterase and tyrosinase inhibitors from Chilean plants.B. Dr.Ram Vishwakarma. Isoform Selective Kinase Inhibitors from Natural Products.		
	D		

1th MAY			Thursday	
08:30-09:15	Plenary 7	A. CSIC-ICA	B. CSIC-IQFR	
	A. Dr. Robert Verpoorte. Synergy. Easier to say than to prove.			
	B. Dra. Mercedes A common multipui	Amat. Synthesis of natural products from chiral lactams as rpose scaffolds.		
09:15-09:30	Oral 12	A. CSIC-ICA	B. CSIC-IQFR	
09:30-09:45	Oral 13	A. CSIC-ICA	B. CSIC-IQFR	
09:45-10:15	Coffee break	CSIC-ICA		
10:15-10:45	Awards	A. CSIC-ICA		
10:45-12:30	Poster session	A. CSIC-ICA		
12:45-13:45	Lunch	CSIC-cafeterías		
14:00-14:45	Plenary 8	A. CSIC-ICA	B. CSIC-IQFR	
	 A. Dr. Gustavo Zuñiga. Metabolomic analysis of antactic plants. B. Dra. RuAngelie Edrada-Ebel. Using Concatenated Analytical Data for Metabolomic Guided Production and Isolation of Bioactive Natural Production 			
14:45-15:00	Oral 14	A. CSIC-ICA	B. CSIC-IQFR	
15:00-15:15	Oral 15	A. CSIC-ICA	B. CSIC-IOFR	

15:15-15:45	Coffee break	CSIC-ICA
15:45-16:00	KIMITEC	Stakeholders Session CSIC-ICA
16:00-16:15	ALEOVITRO	
16:15-16:30	PHARMAMAR	
16:30-16:45	IDEN BIOTECHNOLOGY	
17:00-17:45	Pitch Presentations	
18:00-18:30	Society meeting (GPN)	CSIC-ICA
20:00-22:30	Social Gathering and Dinner	Residencia-CSIC

1st June			Friday
08:30-09:15	Plenary 9	A. CSIC-ICA	B. CSIC-Central
	Dr. Phil Stevenson. Sex, drugs and ecosystem services: the ecological functions and potential applications of nectar toxins. Dra. Nuria Cabedo. Synthesis of nature-inspired bioactive isoquinolines and its analogues.		
09:15-09:30	Oral 16	A. CSIC-ICA	B. CSIC-Central
09:30-09:45	Oral 17	A. CSIC-ICA	B. CSIC-Central
09:45-10:15	Coffee break	CSIC-Central	
10:15-11:00	Plenary 10	A. CSIC-ICA	B. CSIC-Central
	mediate herbivore- B. Dra. Barbara Mo	plant interactions.	studies on plant kairomones that rch of lycopodiaceae family and other a.
10:45-12:30	Poster session	CSIC-ICA	
12:45-13:45	Lunch	CSIC-cafeterías	
14:00-14:15	Oral 18	A. CSIC-ICA	B. CSIC-Central
14:15-14:30	Oral 19	A. CSIC-ICA	B. CSIC-Central
15:00-15:30	Plenary11	CSIC-Central	
	Dr. Fco. Antonio Ma allelopathic case.	acías. Honeypot strategy	to control parasitic weeds. An
15:30-16:00	Closing Ceremony		



PÓSTER







INTRODUCTION AND OBJECTIVES

The SPAGYRIA Project (1,8M€ EU Project) arises from the idea of taking advantage of all the fractions from natural product extracts obtained through green technologies. This idea was one of the main objectives of the TECHNOBIOCROP Project, led by A. M. Mainar under the coordination of A. González-Coloma.

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Start of the Spagyria Project. MEDES - Institute for Space Medicine and Physiology (Toulouse-France). March 2018







NATURAL PRODUCTS, A FRAMEWORK TO SHARE RESEARCH AND SOCIAL INCLUSION

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... Cultivate our differences, take advantage of our resources, to create wealth ...

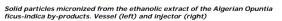






Supercritical Extraction Device (left), Extractor and Cyclone







1st Experiments: Aromatic Plants of Asteraceae and Lamiaceae Families

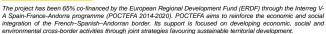


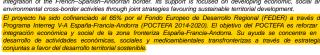
Visit to the Special Center ATADES-H.



Artemisia absithium crop (2 Ha). Luesia - Zaragoza (BIOCROP Project)

ACKNOWLEDGMENTS







PITCH PRESENTATION GRUPO GATHERS



















ABOUT US

Taking Care of our Environment

The activity of the GATHERS Group aims to promote sustainable development through scientific contributions and knowledge transfer from the fields of Engineering, Chemistry, Biology and Pharmacy to the fields of agronomy, food, health and the preservation of environment.

Reference Group E39_17R

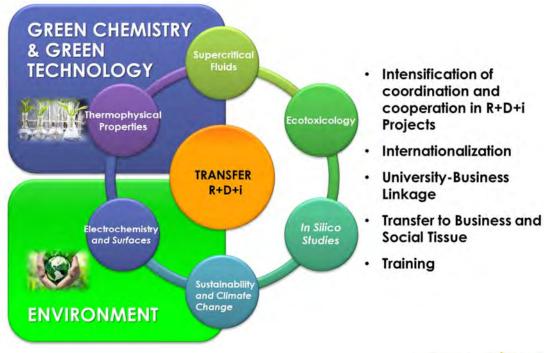






ABOUT US

Research Lines, Operation Scheme and Specific Objectives



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THE TEAM

Our Value, the People behind the idea

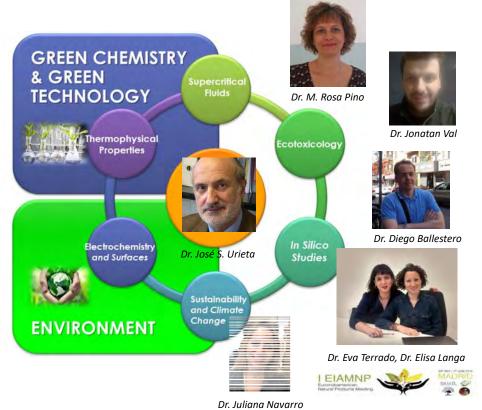




Dr. José F. López

Dr. Juan I. Pardo





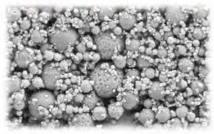


ACTIVITIES

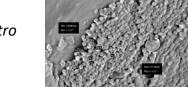
Green Chemistry and Green Technology

- Advanced separation techniques. Extraction, fractionation and microencapsulation of bioactive substances by means of supercritical fluids (CO₂ + cosolvents)
- Preformulation of cosmetic, phytosanitary and phytotherapeutic products
- Thermophysical characterization of fluids for industrial application
- Computational screening of working solvents
- Antioxidant activity in vitro











ACTIVITIES

Environment

- Selection, adaptation and cultivation of aromatic and medicinal plants, that contain valuable bioactive substances. Revaluation of agricultural byproducts
- Ecotoxicological characterization, in waters and soils, of natural products through suitable bioindicators
- Predictions "in silico"
- Analysis of the life cycle of the complete processes related to the cultivation, extraction, characterization and possible commercialization as well as its end of life stage.





New Challenges New Solutions

New Solutions

BIOCRO

CTQ2015-64049-C3-1-R; CTQ2015-64049-C3-2-R y CTQ2015-64049-C3-3-R Biopesticide Development by Chemical and Biotechnological Tools

Financial Support: 493.680,00 €



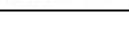












Co-financed by the **European Regional Development Fund**



MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD



MINECO FEDER PROJECT

2016-19

Biopesticide Development by Chemical and Biotechnological Tools - BIOCROP -

SUBPROJECT 1

Biopesticides Development: Obtención, Producción Biotecnológica y Optimización

IP1: Azucena González Coloma. IP2: Carmen Elisa Díaz Hernández.







SUBPROJECT 2

Supercritical Technologies and Biopesticides Development: Formulation, **Diversification and Environmental Impact** Universidad Zaragoza

IP1: Ana M. Mainar Fernández. IP2: José S. Urieta Navarro.





SUBPROJECT 3

Biopesticides Development: Synthesis and Structure-Activity Relationships

IP1: Alejandro Fernández Barrero. IP2: José F. Quílez del Moral.











Results

Biopesticides: wormwood, a dream come true



















9 / 12

... Cultivate our differences, take advantage of our resources, to create wealth ...





A project for solidarity cooperation: improve the quality of life through the development of ecological and sustainable cosmetic products

FEDER Fund: 1.209.065,00 €















Co-financed by the **European Regional Development Fund**







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SATHER

elkarkide

CONTACT DETAILS

How to reach us quickly



Dr. Ana M. Mainar

Email: gathers@unizar.es

I3A-Edificio IDi

c/. Mariano Esquillor s/n 50018-Zaragoza (Spain)

Tel: +34 976761195

https://i3a.unizar.es/es/grupos-de-

investigacion/gathers











CERTIFICATE OF ATTENDANCE

Ana María Mainar

Has participated in the I Euroindoamerican Natural Products Meeting (I EIAMNP), held in Madrid (Spain), from May 29th to June 1st, 2018.

Madrid, June 1st, 2018.

Dra. Azucena González-Coloma

Dra. María Fe Andrés Yeves

Dra. Carmen Elisa Diaz



CERTIFICATE OF PRESENTATION

This is to certify that

Ana M. Mainar

Has contributed with a Poster titled:

3 NATURAL PRODUCTS, A FRAMEWORK TO SHARE RESEARCH AND SOCIAL INCLUSION

Authors:

Ana M. Mainar, Juan I. Pardo, José F. Martínez-López, Juliana Navarro-Rocha, Elisa Langa, M. Rosa Pino, José S. Urieta

in the I Euroindoamerican Natural Products Meeting (I EIAMNP),

in Madrid, Spain,

29th May-1st June, 2018.

Amena Souza)

At the factor

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