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EDITORIAL BOARD MEMBER

ISABEL MARTÍNEZ-SOLIS
PhD, BSc (Hons) Pharmacy

Professor .
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Biomedical Sciences Research Institute.
CEU Cardenal Herrera University.

External Researcher.
Botanical Garden.
Cavanilles Institute of Biodiversity and
Evolutionary Biology.
University of Valencia.

Spain.



CEU | *Universidad
Cardenal Herrera*



BRIEF BIOGRAPHY

Bachelor of science degree in Pharmacy, Environmental Specialty, University of Valencia. Spain.



Doctorate in Pharmacy from University of Valencia. Spain.

Professional experience in university area since 1989.

University teaching:

Beneficiary of a **Doctoral - FPI fellowship** from the Ministerio de Educación y Ciencia. **University of Valencia**. Spain.

Associated Professor. University of Valencia. Spain.

Associated Professor. CEU San Pablo University School of Valencia. Spain.

Titular Professor. CEU Cardenal Herrera University. Spain.

Adjunct Professor. CEU Cardenal Herrera University. Spain.

Aggregated Professor. CEU Cardenal Herrera University. Spain.

Scope: **Botany, Environmental Botany** and **Phytotherapy**.



Research Positions:

➤ **Predocctoral Assistant Scholar.** University of Valencia. Principal Researcher: Chair of Botany Manuel Costa, PhD.

➤ **Doctoral Research scholarship.** Research Line of Plant Histology. University of Valencia. Principal Researcher: Titular Professor Julio Iranzo, PhD.

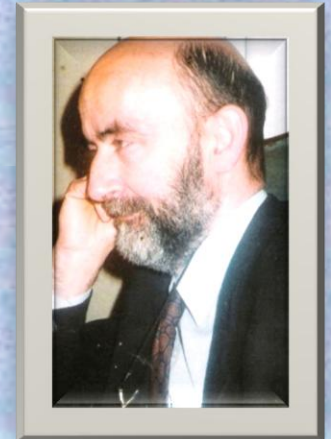
➤ **Researcher.** Research Line of Plant Histology. University of Valencia. Principal Researcher: Titular Professor Julio Iranzo, PhD.

➤ **Researcher.** Line of Plant conservation biology. Botanical Garden. Cavanilles Institute of Biodiversity and Evolutionary Biology. Responsible Researcher: Titular Professor Pilar Soriano, PhD.

➤ **Responsible Researcher:** SEPLAN Group. CEU Cardenal Herrera University.



Manuel Costa, PhD



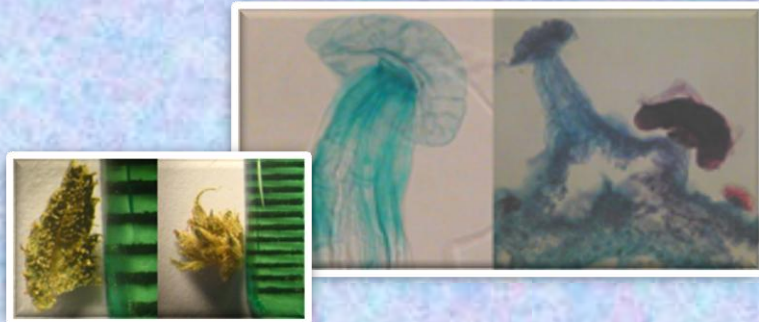
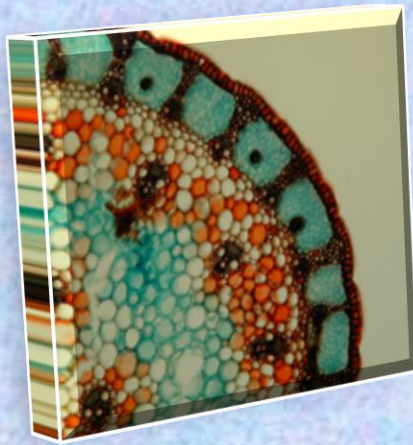
Julio Iranzo, PhD



Pilar Soriano, PhD

Research Lines:

- **Plant Histology.**
- **Medicinal and Toxic Plants. Psicoactive plants:** use and abuse.
- **Global study from plant resources:** bioprospecting, plant biodiversity and plant conservation.



SEPLAN

“...the most notable achievement is having promoted the constitution of my research group and I am honored to be Responsible Researcher. Proposal and obtaining projects and other scientific and academic activities would have been impossible without SEPLAN group, and the benefits that projects and activities have given us almost certainly would not have occurred”. Isabel Martínez-Solís.



What is SEPLAN?

SEPLAN is a multidisciplinary research group that comprises botanists, phytochemists, pharmacologists, specialists on human physiology, psychologists and specialists in the communication field.

This group is inter-institutional and international: CEU Cardenal Herrera University (Spain), University of Valencia (Spain), CEU San Pablo University (Spain) and University of Padua (Italy).

The group develops a multidisciplinary research line, whose main aim is comprehensive knowledge on plants that they can be used as medicine, food, energy sources, etc., or that they are a serious problem because they can produce a health problem, such as tobacco or narcotic and hallucinogenic plants and other toxic plants.

Universities and Researchers

CEU
Cardenal
Herrera
University

- Francisco Bosch, PhD.
- Elisa Marco, PhD.
- Isabel Martínez-Solís, PhD.
- M Amparo Sanahuja, PhD.
- Rosa Visiedo, PhD.



CEU Cardenal Herrera University



University of Valencia

University
of Valencia

- Ana Ibars, PhD.
- Pilar Soriano, PhD.

CEU San
Pablo
University

- Nuria Acero, PhD.
- Dolores Muñoz-Mingarro, PhD.



CEU San Pablo University

University of Padua

University of
Padova

- Giuseppe Zagotto, BSc (Hons).



Research lines

1. Research on plant resources from plant communities and territories. Bioprospecting and Conservation.

Principal Researcher: P Soriano. Cavanilles Institute of Biodiversity and Evolutionary Biology. Botanical Garden. University of Valencia.

Researchers: A Ibars and I Martínez-Solís.

Aim and scope: The quantitative analysis of the flora from territories, as well as establishing phytogeographical divisions in terms of the presence of different taxa. Likewise, applied studies in which the knowledge of the floristic component of a region is of importance as rational use of medicinal plants that grow in plant communities. Thus the sustainable development is promoted.

Venue: Botanical Garden. University of Valencia.



Botanical Garden. University of Valencia. Valencia. Spain.



Pilar Soriano, PhD.



Ana Ibars, PhD.



Isabel Martínez-Solís, PhD.



Research lines

2. Botanical Research.

Principal Researcher: A Ibars. Cavanilles Institute of Biodiversity and Evolutionary Biology. Botanical Garden. University of Valencia.

Researchers: P Soriano and I Martínez-Solís.

Aim and scope: Studying the abundance of plants and their phenological stages, for setting agendas and timeframe for their use. Taxonomical, phenological, biological, and morphological characterization of medicinal species from other species which are likely to mislead.

Venue: Botanical Garden. University of Valencia.



Botanical Garden. University of Valencia. Valencia. Spain.



Ana Ibars, PhD.



Pilar Soriano, PhD.



Isabel Martínez-Solís,
PhD.



Research lines

3. Anatomical and histological research.

Principal Researcher: I Martínez-Solís. Faculty of Health Sciences. Biomedical Sciences Research Institute. CEU Cardenal Herrera University.

Researchers: A Ibars and P Soriano.

Aim and scope: Characterizing the active organs of plants and fungi morphologically and anatomically, for being able to implement subsequent identification and quality control. Study of the relationship between habitat and structure (structural adaptations). Application of anatomical and histological characteristics on taxonomical studies of botanical groups and plant species.

Venue: Botanical Garden. University of Valencia.



Botanical Garden. University of Valencia. Valencia. Spain.



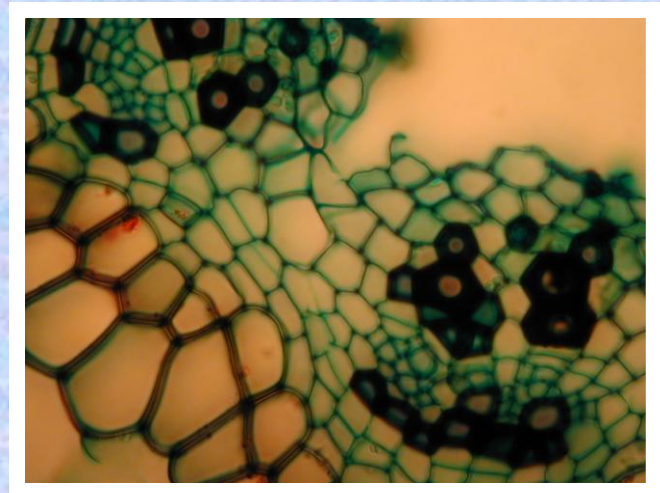
Isabel Martínez-Solís,
PhD.



Pilar Soriano, PhD.



Ana Ibars, PhD.



Research lines

4. Pharmacological testing: Acute oral toxicity. Analgesic and anti-inflammatory activities.

Principal Researcher: M Amparo Sanahuja.

Faculty of Health Sciences. Biomedical Sciences Research Institute. CEU Cardenal Herrera University.

Researchers: Outside researchers to SEPLAN group.

Aim and scope: Acute oral toxicity. Analgesic and anti-inflammatory activities. Pharmacological tests from plant extracts are used to determine the pharmacological properties of species, both toxicity and therapeutic properties. These data promote a rational bioprospecting that enables a sustainable development.

Venue: Faculty of Health Sciences. CEU Cardenal Herrera University.



Faculty of Health Sciences. CEU Cardenal Herrera University. Valencia. Spain.



M Amparo Sanahuja,
PhD.

Research lines

5. Pharmacological testing: Cytotoxicity and antioxidation capability.

Principal Researchers:

Nuria Acero. Faculty of Pharmacy. CEU San Pablo University.

Francisco Bosch. Faculty of Health Sciences. CEU Cardenal Herrera University.

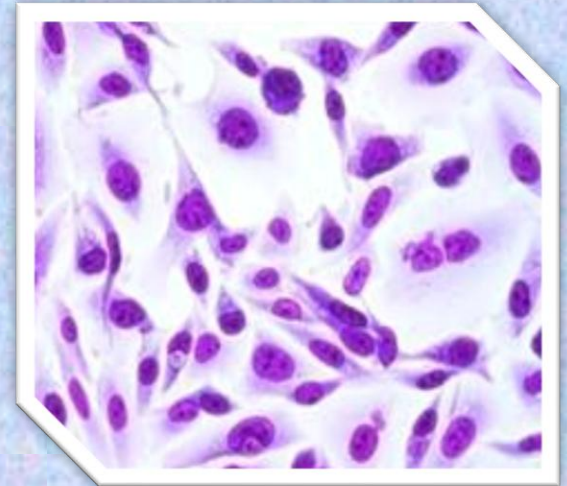
Researchers: D Muñoz-Mingarro and F Boch.

Aim and scope: Study of cytotoxic ability over tumoral and no tumoral cell lines, using the MTT assay. If the extracts emerge as cytotoxic, their way of action (apoptosis activation way, effect over citoquines as TNF-a...) then is evaluated. Analysis of the antioxidation activity as scavenging agents, or the ability to inhibit some pro-oxidant enzymes.

Venue: Faculty of Pharmacy, CEU San Pablo University, and Faculty of Health Sciences, CEU Cardenal Herrera University.



Faculty of Pharmacy. CEU San Pablo University.
Madrid. Spain.



Nuria Acero, PhD.



Francisco Bosch, PhD.



Dolores Muñoz-Mingarro, PhD.

Research lines

6. Physiological Research

Principal Researcher: Francisco Bosch.

Faculty of Pharmacy. Biomedical Sciences Research Institute. CEU Cardenal Herrera University.

Researchers: Outside researchers to SEPLAN group.

Aim and scope: Study of the effect of plant substances on the human organism, especially the effect of abuse substances in the brain and in the individual behaviour of the person, and the effect of tobacco in respiratory system and other systems and organs.

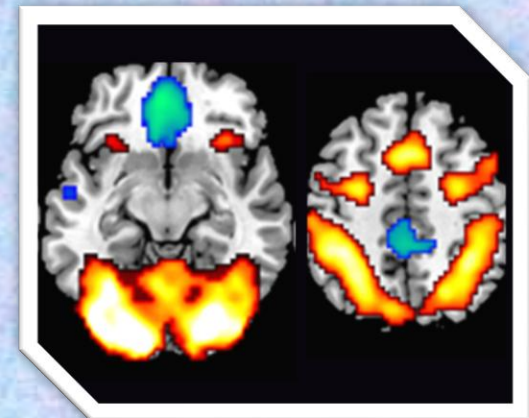
Venue: Faculty of Health Sciences. CEU Cardenal Herrera University.



Faculty of Health Sciences. CEU Cardenal Herrera University. Valencia. Spain.



Francisco Bosch, PhD.



Research lines

7. Phytochemical studies.

Principal Researchers:

Dolores Muñoz-Mingarro. Faculty of Pharmacy. CEU San Pablo University.

Giuseppe Zagotto. Faculty of Pharmacy. University of Padua.

Researchers: outside researchers to SEPLAN group.

Aim and scope: Phytochemical composition study from plant extracts, looking for active principles with pharmacological application. Chemical Analysis of abuse drugs samples, in order for researching their composition, for analyzing their quality and for detect other harmful substances used as drug cutting agents or adulterants.

Venue: Faculty of Pharmacy, CEU San Pablo University, and Faculty of Pharmacy, University of Padua.



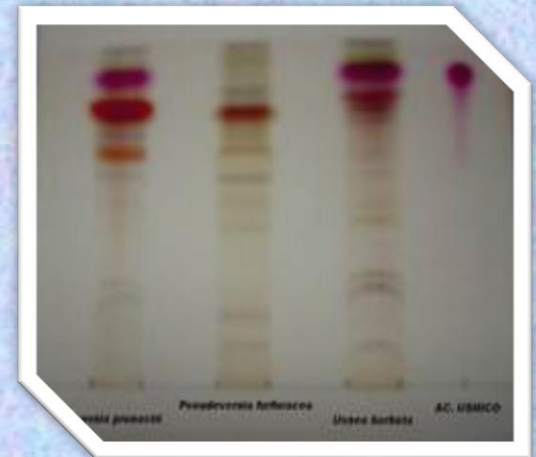
Faculty of Pharmacy. University of Padua. Padua. Italy.



Dolores Muñoz-Mingarro, PhD.



Giuseppe Zagotto, BSc (Hons).



Research lines

7. Research on communication.

Principal Researcher:

Rosa Visiedo. Faculty of Humanities and Information Sciences. Biomedical Sciences Research Institute. CEU Cardenal Herrera University.

Researchers: E Marco.

Aim and scope: Research on communication strategies, outreach and awareness campaigns. Analysis of media coverage and online media.

Venue: Faculty of Humanities and Information Sciences. CEU Cardenal Herrera University. CEU Cardenal Herrera University.



Rosa Visiedo, PhD.



Elisa Marco, PhD.



Faculty of Humanities and Information Sciences. CEU Cardenal Herrera University. Valencia. Spain.



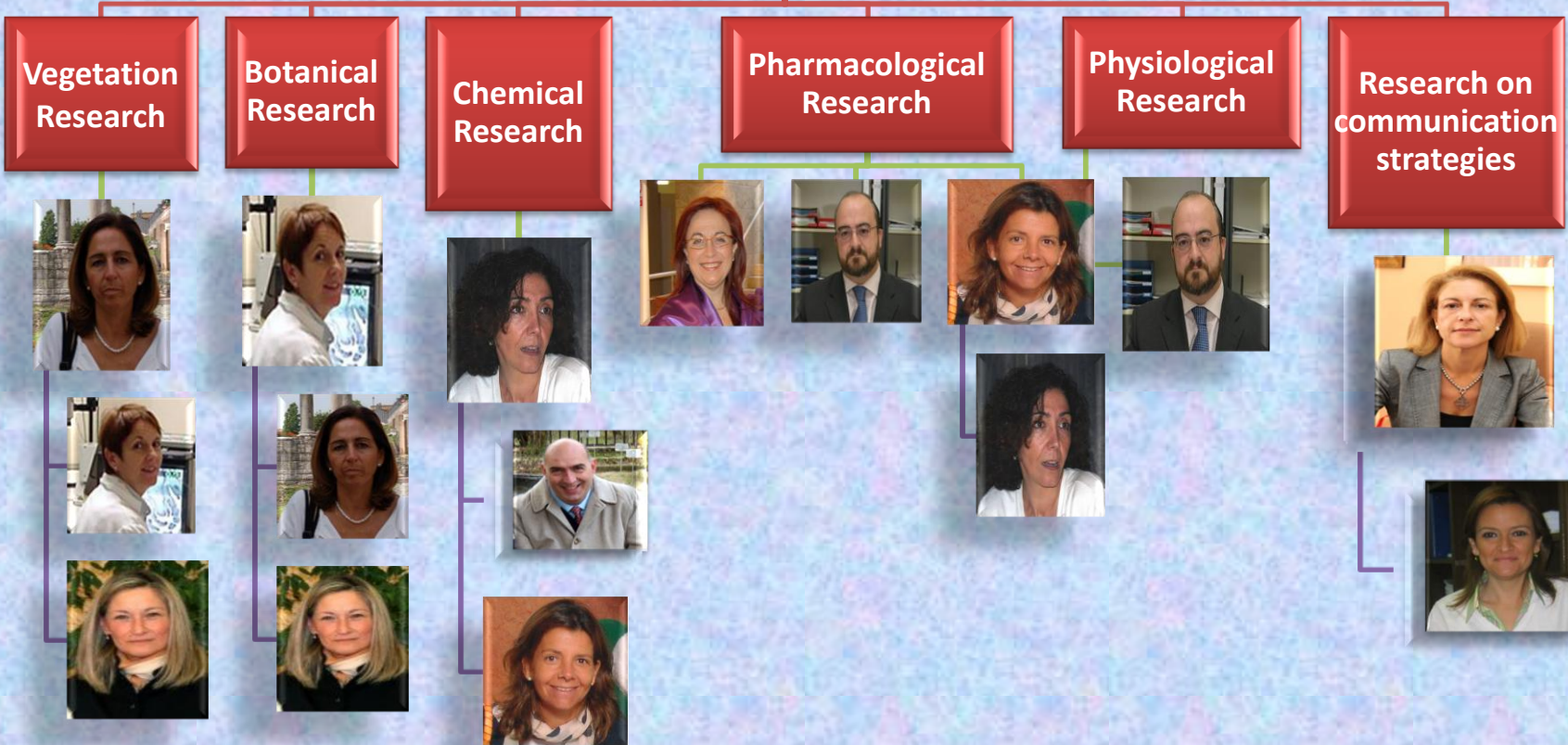
SEPLAN Organization

Scientific
Coordinator



SEPLAN-Plant
Products Analysis
Service

RESEARCH



Websites of interest

<http://www.uchceu.es/investigacion/grupos-lineas-investigacion/seplan>

http://www.uchceu.es/investigacion/documentos/sai_s_eplan.pdf

http://www.jardibotanic.org/investigacio_medicinals.php?idioma=eng

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- [Journal of Bioequivalence & Bioavailability](#)
- [Journal of Biodiversity & Endangered Species](#)



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- [5th World Congress on Bioavailability and Bioequivalence: Pharmaceutical R&D Summit](#)
- [3rd International Conference on Biodiversity & Sustainable Energy Development](#)



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