



Encuentro UMU-Empresa:

*Sector de la cosmética y del cuidado personal
y del hogar*

Supramolecular Chemistry Group

DR. ANTONIO CABALLERO GROUP

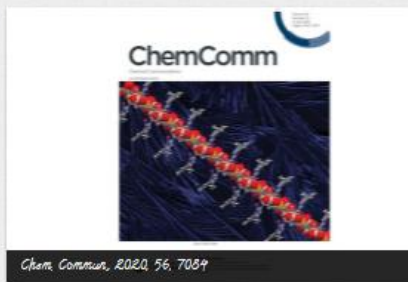
<https://www.um.es/suprachem/>



(Top) José Joaquín Gómez, Dra. Amparo Veiasco, Dra. Fabiola Zapata, Dr. Antonio Caballero. (Down) Jose Luis Esquivel, Ylenia López, Pablo Martínez Mestre and Pedro López.

The research in the Dr. Antonio Caballero Group at the University of Murcia (Spain) is focused in the study of new supramolecular non conventional non covalent interactions like halogen or chalcogen bonding interaction and their applications in the development of new anion sensors. Interestingly our research is also focused in the fabrication of new supramolecular polymers.

University of Murcia



Chem. Commun., 2020, 56, 7084



Highlights

Dra. Fabiola Zapata



Congratulations to Fabiola Zapata who has obtained the position of Permanent Professor (Pofesora Contratada Doctora) at the University of Murcia on June 2021.

[More Information](#)

Dra. Encarnación Navarro



Encarnación Navarro defended her Doctoral Thesis on September 25. Congratulations Encarnación!!! Surely you are also very successful in the industry.

[More Information](#)

Dra. Paula Sabater

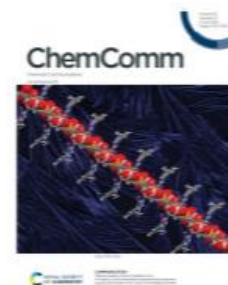


Congratulations to Dr. Paula Sabater, who defended her thesis the last day before the beginning of the COVID 19 era, March 13, 2020. We wish you much success in your future.

[More Information](#)



Last Publications



Self-Assembly Supramolecular Polymer by Anti-Electrostatic Anion-Anion and Halogen Bonding Interactions
Fabiola Zapata, Lidia Gonzalez, Adolfo Bestida Della Bauzista and Antonio Caballero
Chem. Commun., 2020, 56, 7084-7087
DOI: 10.1039/D0CC02831B



Financial Entities

We thank the following agencies for the financial support received for the realization of different projects:

Ministry of Economy and Competitiveness of the Government of Spain and FEDER Funds.

Séneca Foundation Comunidad Autónoma de la Región de Murcia

European Commission



Projects



Project Name: Functional Supramolecular Materials.
Reference: RED2018-102331-T
Duration: 2020-2021.
Principal Investigator: Antonio Frontera



Project Name: Formation of Self-assembled Supramolecular Polymers by Halogen Bonding Interaction
Reference: 20819/PI/18
Duration: 2019-2021.
Principal Investigator: Antonio Caballero



Project Name: Comparison between non-covalent interactions: hydrogen, halogen, chalcogen and tetrel bond. Formation of chiral supramolecular polymers.
Reference: CTQ2017-86775-P.
Duration: 2018-2020.
Principal Investigators: Antonio Caballero and Fabiola Zapata



Project Name: Design of new anion sensors and receptors based on halogen bonding interactions
Reference: CTQ2013-46096-P.
Duration: 2014-2017.
Principal Investigator: Antonio Caballero.



Project Name: Study of the Halogen Bonding Interaction as Alternative to the Hydrogen Bonding in the Design of New Anion Receptors
Reference: 19337/PI/14.



Project Name: Halogen-Bonding chemosensor for anion sensing
Reference: 18948/JLI/13.
Duration: 2015-2017.
Principal Investigator: Fabiola Zapata.



Project Name: A New Halo-Imidazoliums and Halo-Triazoliums Halogen-Bonding Receptors for Anion Recognition and Sensing
Reference: FP7-PEOPLE-2012-CIG n°. 321716
Duration: 2012-2016.
Principal Investigator: Antonio Caballero.



Project Name: Electrochemical, Colorimetric and Fluorescent Halogen Bonding Receptors for Anions
Reference: RYC-2011-07684.
Duration: 2012-2014.
Principal Investigator: Antonio Caballero.



Personnel Contracts



Name of the Program: Formación de Personal Investigador (FPI)
Reference: BES-2014-068586.
Duration: 2015-2019.
Contracted: Lidia González Laguna



Name of the Program: Formación de Profesorado Universitario (FPU)
Duration: 2015-2019.
Contracted: David Caballero Delgado



Contracts with Companies



Company name: Optimiza Protective & Consulting

Title: Studies of behavior and degradation of industrial and marine coatings

Duration: 2019-2020.



Company name: Optimiza Protective & Consulting

Title: Study of Pollutants in Polymeric Coatings

Duration: 2020.



Company name: Optimiza Protective & Consulting

Title: Study of infrared spectroscopy in Polymeric Surfaces

Duration: 2020.

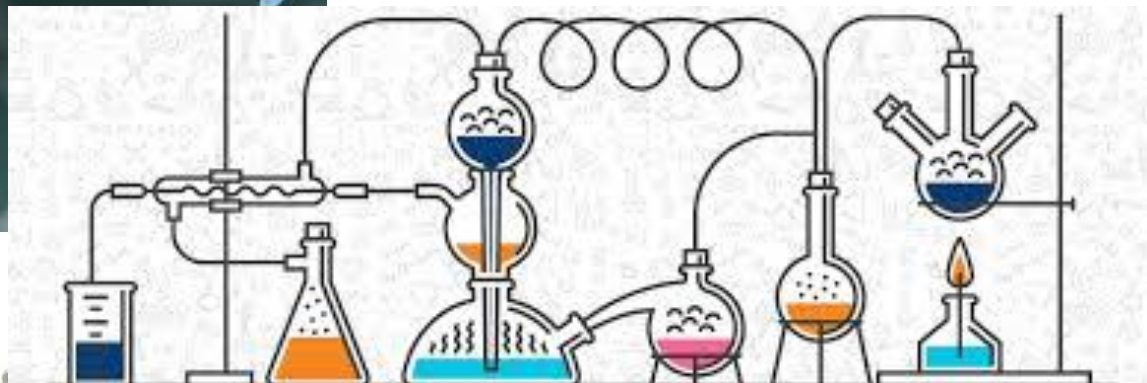
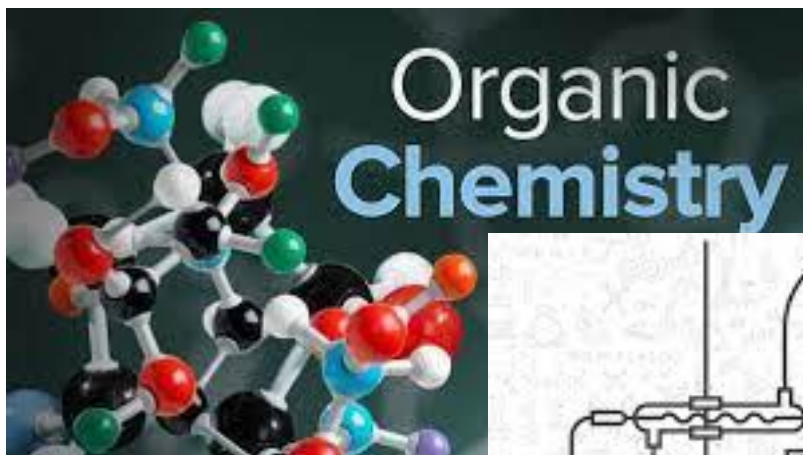


Company name: Ecos Metique S.L 3A Antioxidants

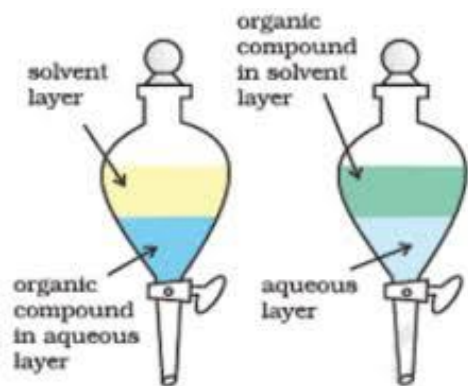
Title: Synthesis of a new Fertilizer

Duration: 2020.

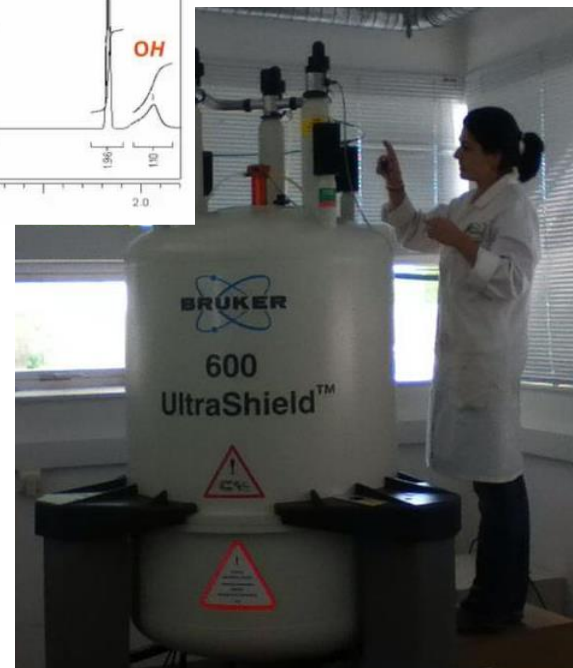
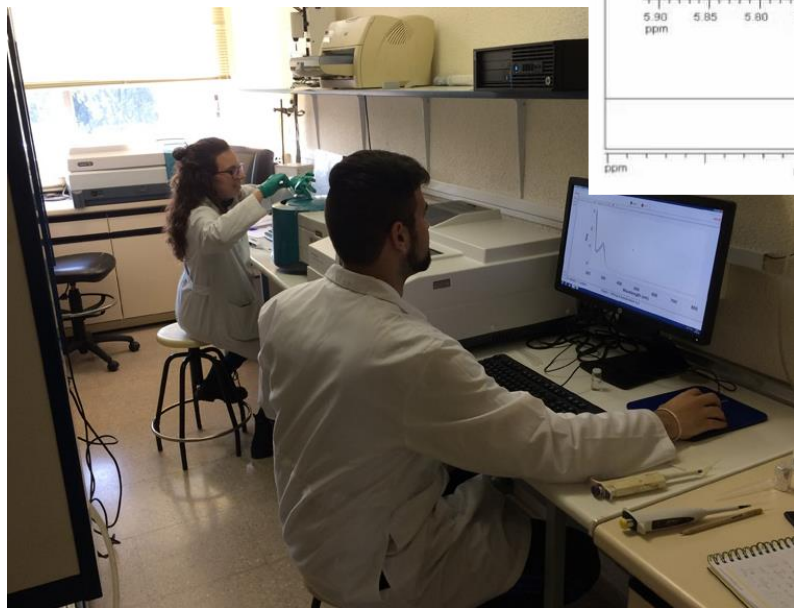
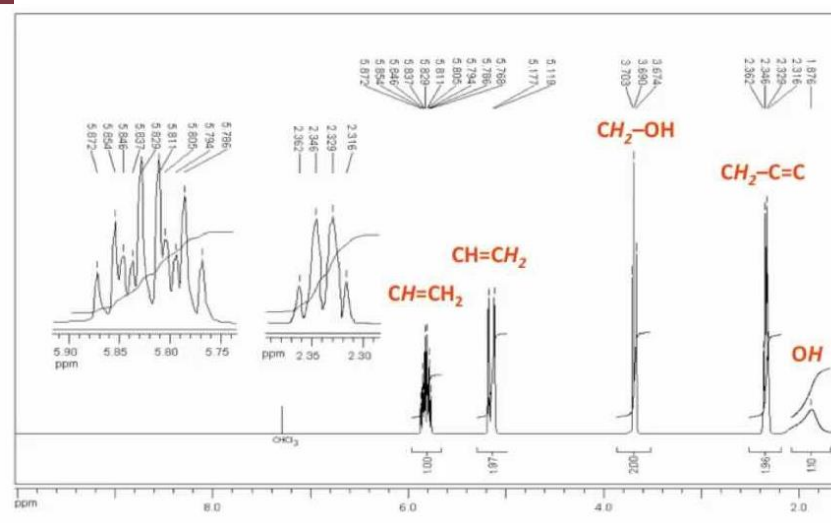
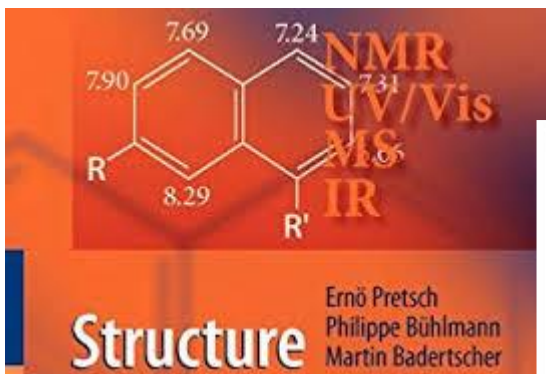
Síntesis de Compuestos Orgánicos



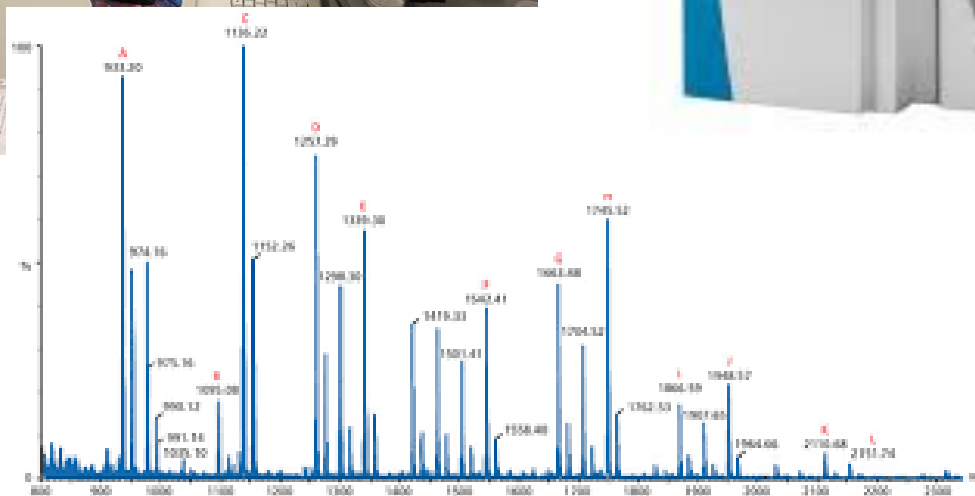
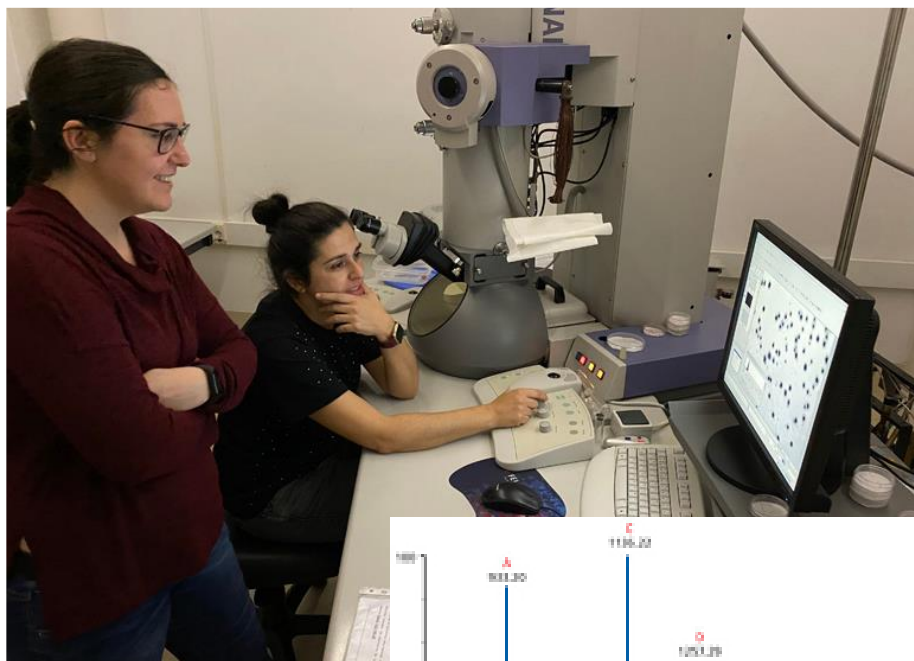
Purificación de Compuestos Orgánicos



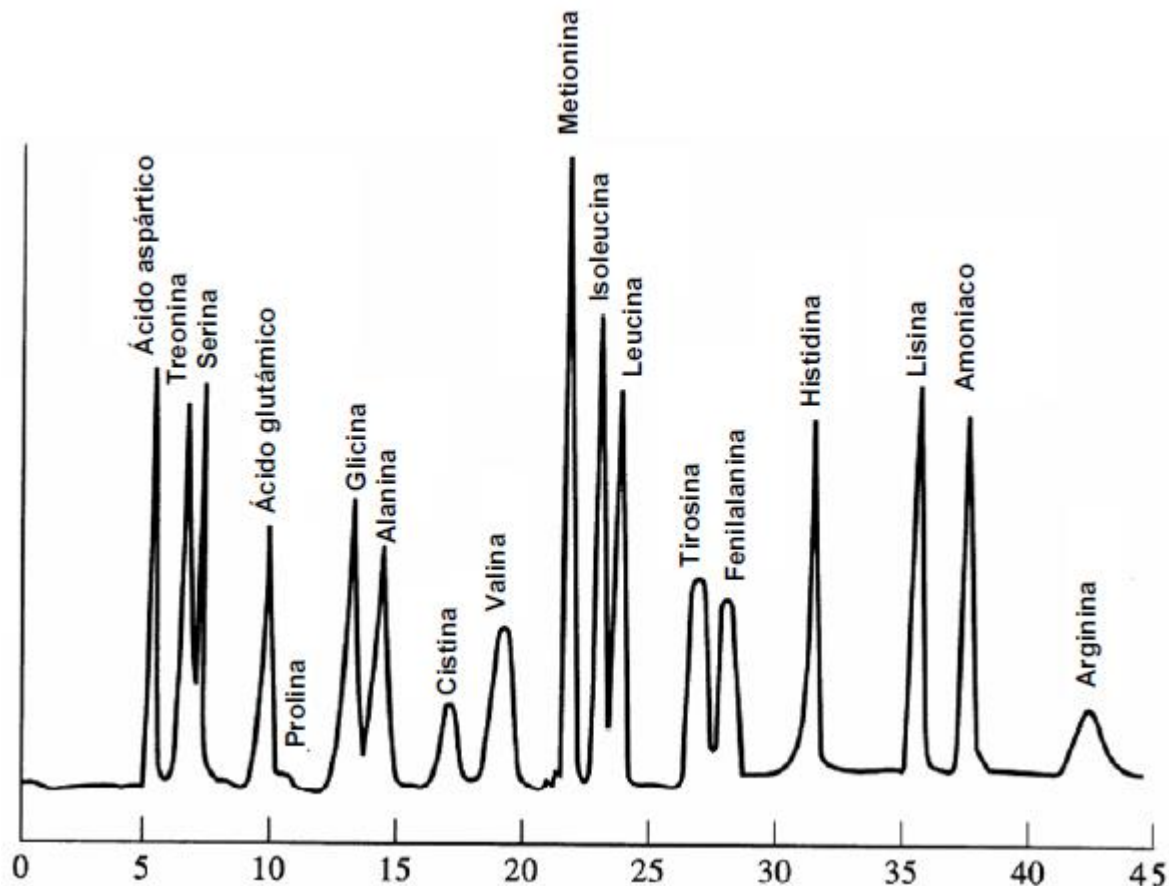
Determinación Estructural y Análisis de Muestras: RMN, UV-Vis y Fluorescencia



Determinación Estructural y Análisis de Muestras: Espectrometría de Masas



Determinación Estructural y Análisis de Muestras: Cromatografía Iónica e ICP Masas







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