ACTIVIDADES DE FORMACIÓN DOCTORAL TRANSVERSAL 2018

Título de la actividad
Nuevos Retos en Síntesis Química IV
Programa de doctorado que proponen la actividad
Química Sintética e Industrial
Persona de contacto
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Breve descripción de la actividad
Esta actividad consistirá en una serie de conferencias /seminarios, que organizan este Programa de Doctorado. Se articulará en una Jornada, que se celebrará en la Facultad de Química, campus de Gipuzkoa. Esta actividad tiene como objetivo completar la formación científica de los doctorandos y las doctorandas a lo largo del periodo de la realización de su tesis doctoral, permitiéndoles conocer de primera mano los últimos avances científicos. Las conferencias /seminarios versarán sobre temas de actualidad en el área de síntesis química impartidos por expertos reconocidos internacionalmente, provenientes de diferentes Universidades, que expondrán y analizarán con los asistentes diversos aspectos novedosos en Química. Este objetivo general se concreta en los siguientes objetivos específicos: a) Analizar algunos de últimos avances y tendencias en diferentes aspectos de la Química b) Integrar conceptos que el estudiante ya posee en su formación académica, aplicándolos a entornos nuevos c) Interactuar con expertos ajenos a nuestra Universidad reconocidos internacionalmente. En la Jornada sobre *Nuevos Retos en Síntesis Química*, que se celebrará el 15 de octubre de 2018 en la Facultad de Química, participarán los siguientes ponentes: **1. Dr. Francisco Corzana, Profesor Titular de la Universidad de La Rioja.** Dr. Francisco Corzana obtained his Ph.D. degree in Chemistry from the University of La Rioja in 2001. The main goal of the thesis was the preparation of enantiopure quaternary amino acids. After that, he performed 2 postdoctoral stays; one at the *University of Copenhagen,* with Prof. Engelsen, working on the study of the conformational behavior of carbohydrates by molecular dynamics simulations, and another one at *Centro de Investigaciones Biológicas* (CSIC) in Madrid, under the supervision of Prof. Jesús Jiménez-Barbero and Juan Luis Asensio. In this post-doc, he was working on the synthesis and conformational analysis of aminoglycoside antibiotics, combining NMR experiments and MD simulations. In 2005, he came back to the University of La Rioja as a "Ramon y Cajal" researcher, and now he has a permanent position at this university as an associate professor. His research is focused on the synthesis and structure of glycopeptides and their use in clinical applications, such as tumor detection and

design of therapeutic vaccines for the treatment of cancer. Dr. Corzana is also involved in the design of a new generation of antibody drug conjugates to treat tumors.

He has been performed three stays as a visiting professor, one at the *University of Oxford* in 2012 with Prof. Ben Davis and two visits at the *University of Cambridge* in 2014 and 2016 with Dr. Bernardes.

He has published more than 90 papers and has given more than 20 invited oral communications in international conferences. His h-index is 21.

He is currently a visiting professor at University of Cambridge.

He has been recently highlighted in Carbohydrate Research journal as "New Investigators in Glycoscience" (Carbohydrate Research 2017, 445, 117-122.)
More info: www.francisco-corzana.com

2. Dr. Mónica Pérez-Temprano, Instituto Catalán de Investigaciones Química (ICIQ), Tarragona
Mónica H. Pérez-Temprano graduated in Chemistry from the Universidad de Valladolid in 2005. In 2011 she obtained her PhD at the Institute CINQUIMA (Universidad de Valladolid), where she worked under the supervision of Prof. Pablo Espinet and Prof. Juan A. Casares on experimental approaches to reaction mechanisms of Pd-catalyzed processes. During 2009, she joined the laboratory of Prof. Lutz Gade at the University of Heidelberg as a PhD visiting student. After her PhD she moved to the University of Michigan to work with Prof. Melanie S. Sanford on the synthesis and reactivity of high-valent organopalladium complexes. During her stay at the University of Michigan, she received a two-years postdoctoral fellowship from the Ramón Areces Foundation. Dr. Pérez-Temprano joined ICIQ in October 2015.

More info: http://www.iciq.org/research/research_group/dr-monica-h-perez-temprano/

3. Prof. Dr. Mar Gómez Gallego, Catedrático del Departamento de Química Orgánica de la Universidad Complutense de Madrid
Mar Gómez Gallego obtained her Ph.D. in Organic Chemistry (Cum Laude) in the UCM, where she was appointed Profesor Ayudante in 1987. After a post-doctoral stay in Scotland (Dundee University, Prof W. M. Horspool, Fleming Award), she obtained a permanent position at the UCM as Profesor Titular in 1992. She was promoted to Catedrático de Química Orgánica in 2011. Her scientific production has resulted in 90 scientific articles in the areas of multidisciplinary chemistry, organic, inorganic and organometallic chemistry, three reviews, two books, book chapters and several patents. A part of her work has been developed in collaboration with the industry (agrochemicals) mainly directed to the improvement of the efficiency of agronomical products currently in the market and to the design of new iron-chlorosis correctors and molluscicides. Prof. Mar Gómez Gallego has been consultant of the Energetic Materials Laboratory (LME) of the Spanish Ministry of Defense since 2002, and has developed joint research projects with this laboratory, and with several agrochemical companies. Her current research interests are focused on the development of new processes based on transition-metal complexes and the study of their reaction mechanisms, transformations in polymetallic systems, synthesis and reactivity of bio-organometallic compounds, the design and synthesis of new energetic materials as well as in the development of new iron chelating agents, the study of their mechanisms of action and their environmental impact.

More info: http://www.biorganomet.es/
Calendario
La Jornada se celebrará el 15 de Octubre de 2018 en la Facultad de Química, Donostia.