

New Carbene & Carbyne Transfer Catalysis

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12h

Sala de grados (Semipresencial)

On-line (vía Zoom)

Link: <https://zoom.us/j/98386221438>

CICLO CONFERENCIAS ISQCH 2021

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The art of organic synthesis and reaction discovery relies on logic-guided thought processes that often involve hypovalent carbon reactive species and their corresponding stabilized equivalent forms. However, not all of the possible carbon reactive intermediates and their reactivity rules have attracted the same attention by the synthetic community.

This is mainly because of the perception of the lack of synthetic utility and importantly, because of the challenges associated with controlling their extreme reactivity and lack of efficient sources. In this lecture, I will show the discovery and development of new chemical processes based on underexplored carbyne and triplet carbene equivalents using bespoke sources and their use in solving important synthetic problems in the field of (late-stage) C–H and C–C bond functionalizations as well as in radiolabeling.



<https://www.iciq.org/staff/garcia-suero-marcos/>

Marcos García Suero was born in Noreña (Asturias) and obtained his PhD degree at the Institute of Organometallic Chemistry Enrique Moles (Universidad de Oviedo, 2009). During the summer of 2005 he joined the Department of Chemistry and Chemical Biology at Harvard University as a visiting PhD student. In May 2010 he moved to the University of Cambridge as a Postdoctoral Marie Curie Fellow. In 2014, he moved to Tarragona as a Group Leader at the Institute of Chemical Research of Catalonia (ICIQ).

He has received the JSP Travel Award 2018 from the Swiss Chemical Society to attend the 54 Bürgenstock Conference, the Merck Sigma-Aldrich Young Researcher Award 2018 from the Royal Spanish Chemical Society (RSQE), the 2019 Thieme Chemistry Journal Award, the Young Investigator Award 2019 by the EuCheMS Division of Organic Chemistry, and the Young Investigator 2020 by Lilly-RSQE. His group has been recognized by the Generalitat de Catalunya (AGAUR) as Emerging Group SGR 2017-2019. In 2019, the European Research Council awarded Prof. Suero with a Consolidator Grant.