



# LA SECCIÓN DE CIENCIAS FÍSICAS Y QUÍMICAS DE LA REAL ACADEMIA DE CIENCIAS EXACTAS, FÍSICAS Y NATURALES DE ESPAÑA

*se complace en invitarle a la sesión científica pública*

## **A Flavor of Synthetic Organic Chemistry towards Biologically Active Heterocyclic Compounds**

*impartida por el Académico Extranjero*

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*A la finalización del acto se hará entrega al Prof. Da Silva del diploma acreditativo de miembro de la Corporación.*

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## Resumen de la conferencia

Chemical industry was focused from many years on some classic synthetic processes of important starting chemicals or crucial chemicals produced in high volume as intermediates in synthetic industrial reactions. Nowadays synthetic chemists intend to generate the target molecules through greener chemical processes, by using safer, less toxic, and more benign solvents, or by solvents elimination, as well as by lowering energy consumption, through the use of milder reaction conditions, and to minimize waste production. To achieve this goal greener synthetic methodologies and alternative heating processes have been developed.

In the present lecture it will be presented a series of novel synthetic methods developed by our research group of several oxygen and heterocyclic compounds as well as the design, synthesis and biological evaluation of some libraries of compounds as potential anti-Alzheimer and antileishmanial drugs.

**Artur M.S. Silva** is currently full professor at the Chemistry Department, Vice-rector for research, innovation and doctoral school of the University of Aveiro and President of the Clinical Academic Centre Egas Moniz Health Alliance. He was the President of the Portuguese Chemical Society 2016-2023. He obtained both the BSc in Chemistry-Physics (1987) and the PhD in Organic Chemistry (1993) at the University of Aveiro. He joined the Department of Chemistry of the same University in 1987 and achieved Full Professorship in 2001. He is fellow of the European Academy of Sciences, of the Chemistry Europe and Correspondent Fellow of the Sciences Academy of Lisbon - Section of Chemistry. He published more than 840 SCI papers, 2 e-books, 54 book chapters and is co-author of 5 patents with more than 21660 citations and  $h=65$ . His research interests' range over the chemistry of polyphenolic and nitrogen heterocyclic compounds under new sustainable synthetic routes as well as on the evaluation of their antioxidant, anti-inflammatory, antitumor and antimicrobial activity and in the isolation and structural characterization of natural products from diverse terrestrial and marine sources.

