# Seminario de Química Orgánica

## Miércoles 29 de septiembre de 2021, 13 h

AULA VIRTUAL DQO: https://zoom.us/my/qo.aula04 - **Clave:** exactas20

## "Mechanistic insights into the rotational behaviour of novel molecular motors and photoswitches"


### Dr. Stefano Crepi

Ben Feringa Research Group
Stratingh Institute for Chemistry. University of Groningen. The Netherlands.


Photochemically driven molecular switches and unidirectional molecular motors represent a fascinating fundamental research topic. These artificial molecular machines can drive the dynamics of molecular systems, materials and devices at the nanoscale, a peculiar feature that has found applications in smart materials and biomedical sciences.

Classic photoactuators like azobenzene or the Feringa molecular motor have been known since decades, and since then, significant advances in their respective designs have been achieved. However, the neverending quest to synthesize molecules tuned for a specific task requires a deep understanding of their motion

This seminar will focus on the design of novel photoactuators applying the toolbox offered by physical organic chemistry. This approach allows us to predict and understand the behaviour of novel structures and discover the mechanisms underlying their movement at the molecular scale.