

Title: **Different strategies for achieving directional motion in chemically fueled molecular motors: a review**

Student: Fredi Contreras Figarola

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Supervisor/s: Dr. Joaquim Crusats Aliguer
Departament of Inorganic and Organic chemistry

Research on artificial molecular motors takes inspiration from nature's solution for directing movement at the molecular level. Different ways of achieving directional motion on the nanoscale performed by tiny synthetic molecular machines can be found in the chemical literature. In this project, an overview of the theme will be presented with a new focus on the strategies that have been reported so far to generate directional motion and drive these systems out-of-equilibrium by means of the consumption of a chemical fuel.