

Title: **Light activated drugs for protein activity remote control.**

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Some organic molecules able to interact with glutamate receptors are used for the treatment of Central Nervous System diseases, acting as photoswitchable allosteric modulators. Even though they constitute a great advance, the main problem is to control the concentration and their administration, as well as their possible side effects in other regions.

Within this framework, photopharmacology aims to control their activity through photochemical techniques. *Medicinal Chemistry* (MCS) research group, with previous knowledge on such active substances, wants to change the main bond of the molecule to an azo bond, without modifying the general structure, so that a *trans*- to *cis*- transformation occurring upon light irradiation allows the activation or the deactivation of the molecule.

Keywords: Organic Synthesis, Chromatography, Spectroscopy, Photochemistry, Allosteric Modulators, Ligands, mGluRs.