**Porphyrin-Flavonol Conjugates for Efficient Delivery of
Carbon Monoxide**

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Carbon monoxide (CO) is known to be a toxic gas for mammals. It has been recognized as a signaling molecule with anti-inflammatory and cell-protective properties, with possible applications in clinical treatments.1, 2 Light-activated CO-releasing molecules (photoCORMs) can provide a high spatial and temporal control, allowing the drug to be delivered only into the targeted tissues when required. However, many of well-known photoCORMs are based on heavy metal complexes, and short irradiation wavelengths may be required for their release with evidently limited use under a clinical scenario.

Herein, we present a platform that combines the excellent photoproperties of porphyrin, which acts as an antenna and triplet sensitizer, with the CO releasing abilities of a flavonol derivative.3



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