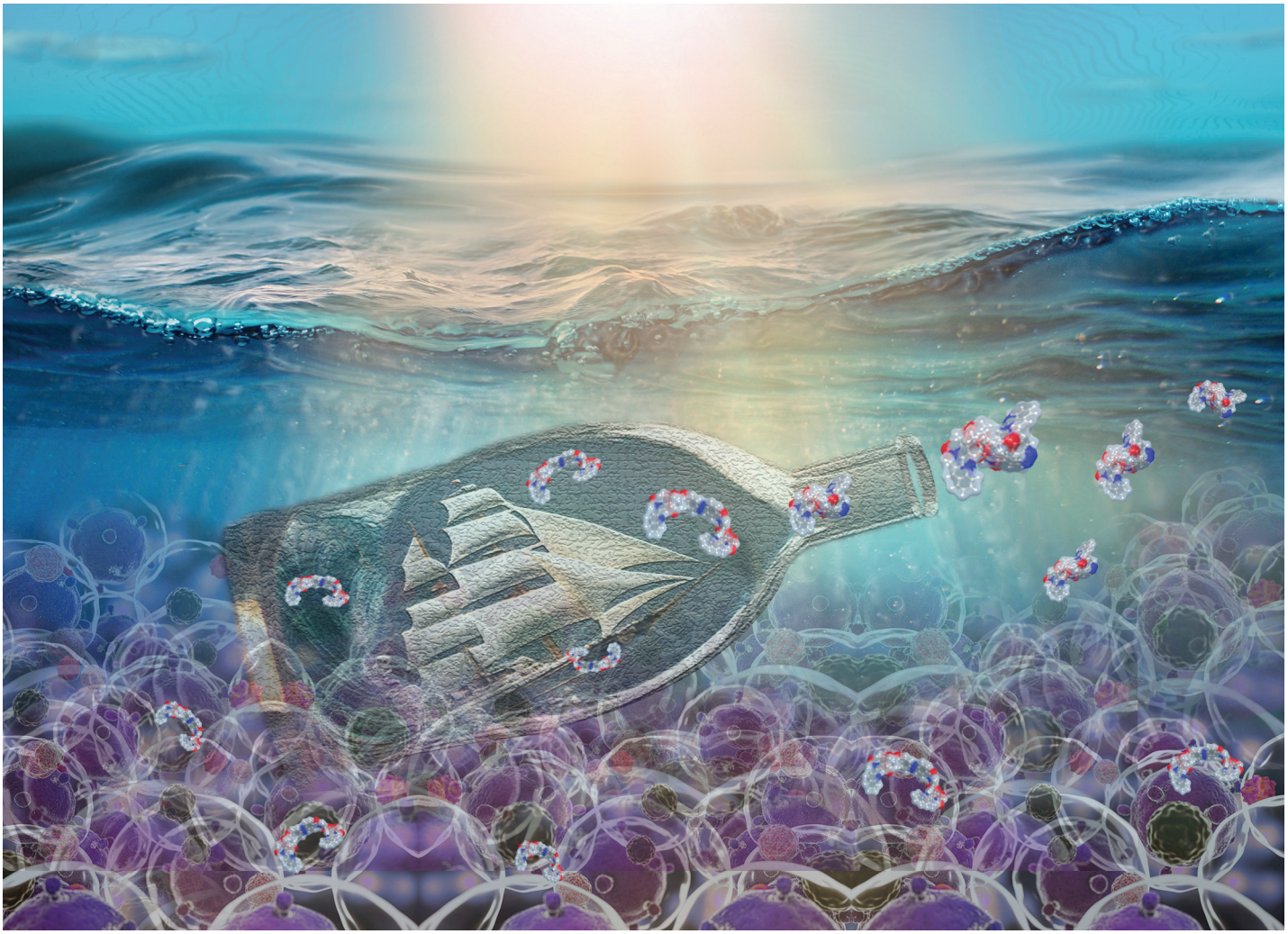
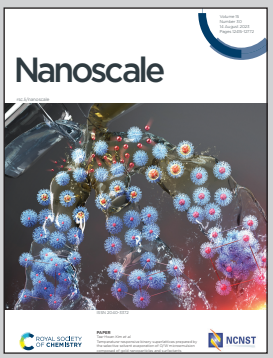


Dr. Botella's group at Nanomedicine Laboratory of Institute of Chemical Technology (Universitat Politecnica de Valencia-Spanish National Research Council) Valencia, Spain. Artwork by Katya Cuevas.

Light-activated controlled release of camptothecin by engineering porous materials: the *ship in a bottle* concept in drug delivery

A change in nanoparticle phototherapy is proposed by shifting photoswitching activity from the vehicle to the load. In this "ship in a bottle" concept, photoswitchable camptothecin containing an azobenzene functionality was loaded into porous silica nanoparticles with pores which limit its release when in the *trans* form. Release of the prodrug was accomplished by irradiation with UV light to convert trans isomers back to *cis*. This *cis–trans* photoisomerization allowed safe and precise delivery.

As featured in:



See Christopher C. Landry, Pablo Botella *et al.*, *Nanoscale*, 2023, **15**, 12506.

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