

***Electronic Supplementary Information***

**Supramolecular activation of the photodynamic properties of porphyrinoid photosensitizers by calix[4]arene nanoassemblies**

Ivana Di Bari,<sup>a</sup> Aurore Fraix,<sup>a</sup> Roberta Picciotto,<sup>a</sup> Anna R. Blanco,<sup>b</sup> Salvatore Petralia,<sup>c</sup> Sabrina Conoci,<sup>c</sup> Giuseppe Granata,<sup>d</sup> Grazia M. L. Consoli<sup>d\*</sup> and Salvatore Sortino<sup>a\*</sup>

<sup>a</sup>Laboratory of Photochemistry, Department of Drug Sciences, University of Catania, I-95125 Catania, Italy.

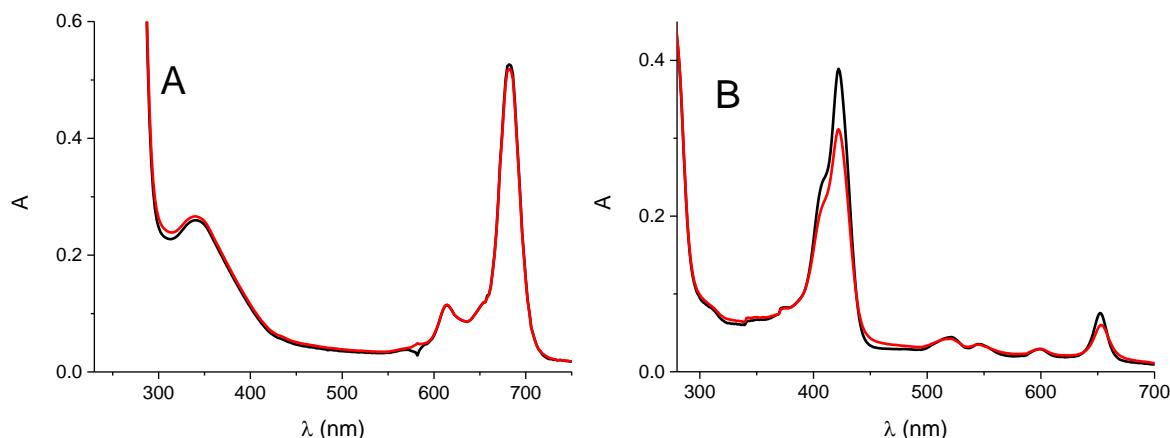
Email: ssortino@unict.it

<sup>b</sup>Clinical Development, SIFI S.p.A. Via Ercole Patti 36, Lavinaio, 95020 Catania, Italy

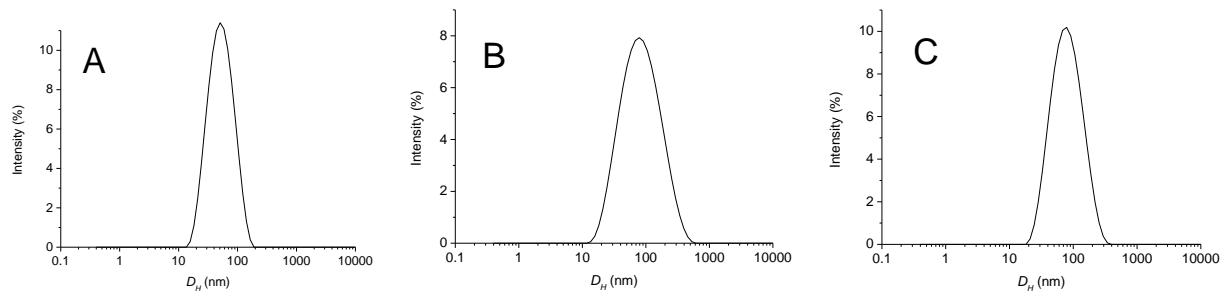
<sup>c</sup>STMicroelectronics, Stradale Primosole 50, 95121 Catania, Italy

<sup>d</sup>Institute of Biomolecular Chemistry, C.N.R., Via P. Gaifami, 18, I-95126, Catania, Italy.

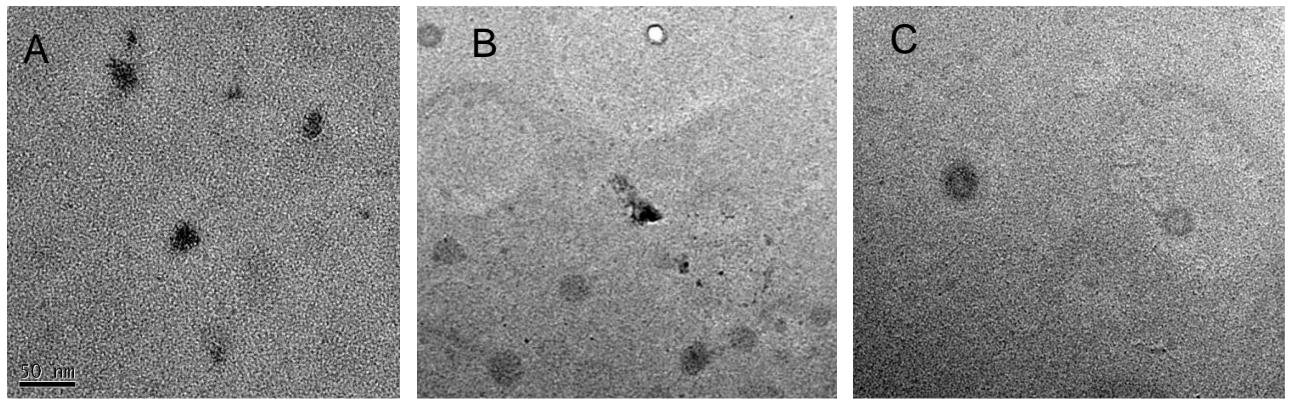
Email: grazia.consoli@icb.cnr.it



**Fig. S1.** Absorption spectra of **1•2** (A) and **1•3** (B) before (black lines) and after (red lines) 20 min of irradiation. ( $\lambda_{\text{exc}} = 680 \text{ nm}$  for **1•2** and  $405 \text{ nm}$  for **1•3**).  $[1] = 300 \mu\text{M}$ ;  $[2] = 15 \mu\text{M}$ ;  $[3] = 3 \mu\text{M}$ .



**Fig. S2.** Intensity weighted hydrodynamic diameter distribution obtained by DLS for the micellar aggregates of **1** (A), **1·2** (B) and **1·3** (C). [1] = 300  $\mu$ M; [2] = 15  $\mu$ M; [3] = 3  $\mu$ M.



**Fig. S3.** Representative Transmission Electron Microscopy image of **1** (A), **1·2** (B) and **1·3** (C).