

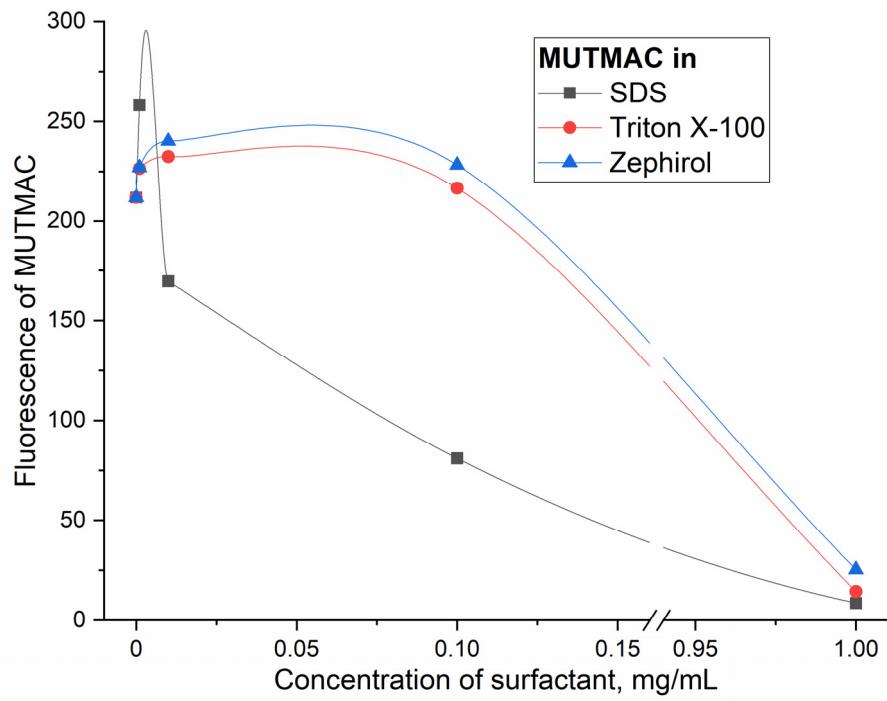
Specific FRET probes sensitive to chitosan-based polymeric micelles formation, drug-loading and fine structural features

Igor D. Zlotnikov, Ivan V. Savchenko and Elena V. Kudryashova *

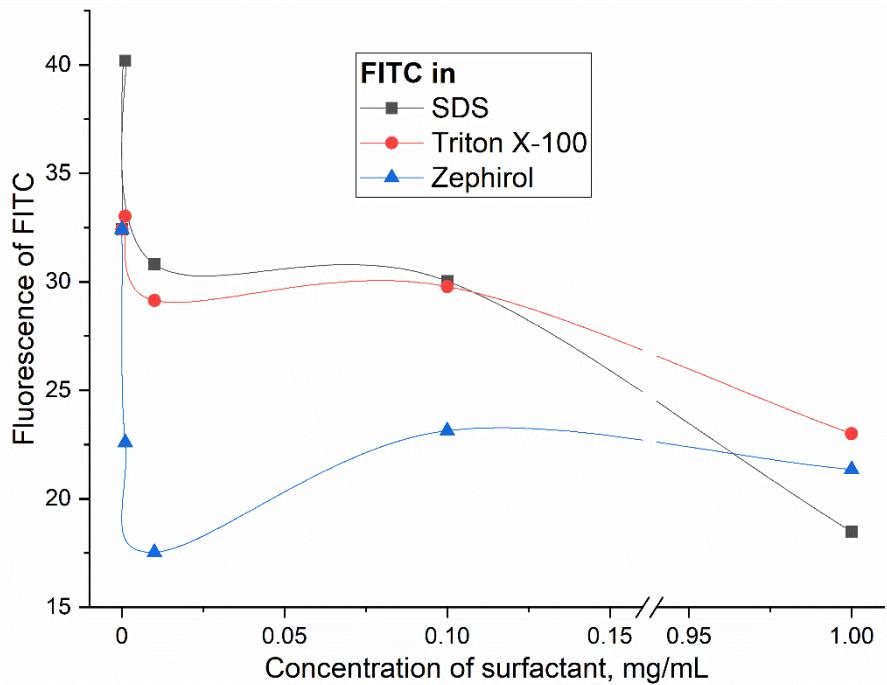
Faculty of Chemistry, Lomonosov Moscow State University, Leninskie Gory, 1/3, 119991 Moscow, Russia

* Correspondence: helenakoudriachova@yandex.ru

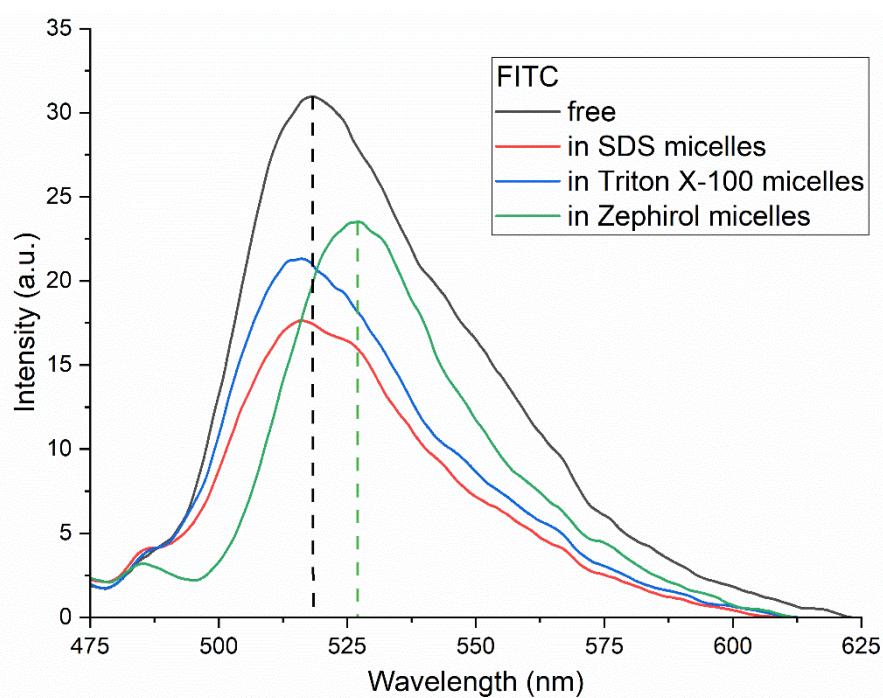
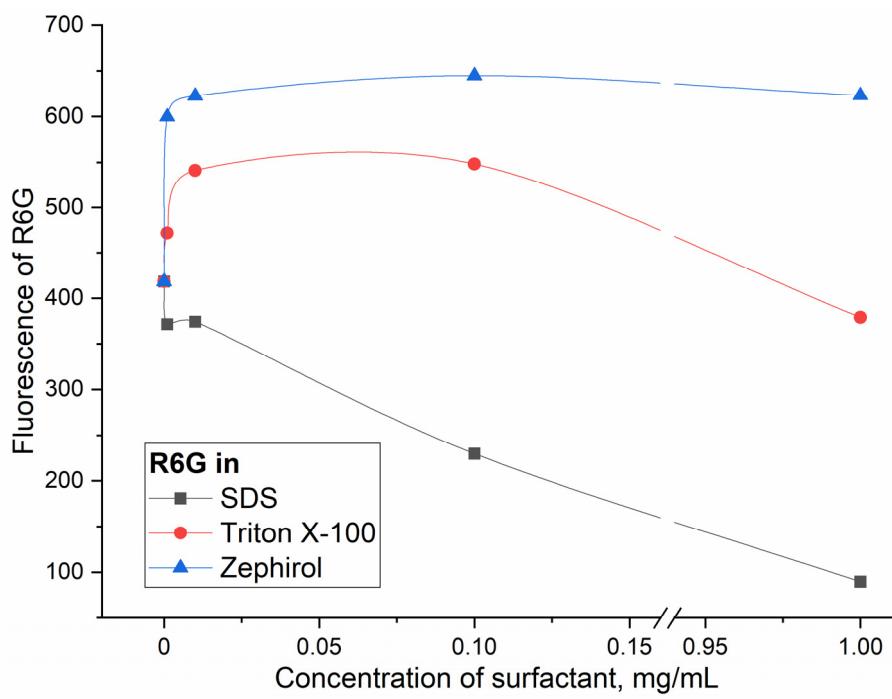
Figure S1. The dependence of the fluorescence emission maximum intensity on surfactant concentration: **(a)** MUTMAC, **(b)** FITC, **(c)** R6G. Fluorescence emission spectra of **(d)** FITC, **(e)** R6G in free form and in micellar form. Graphs were used to determine the degree of incorporation of fluorophore into micelles.



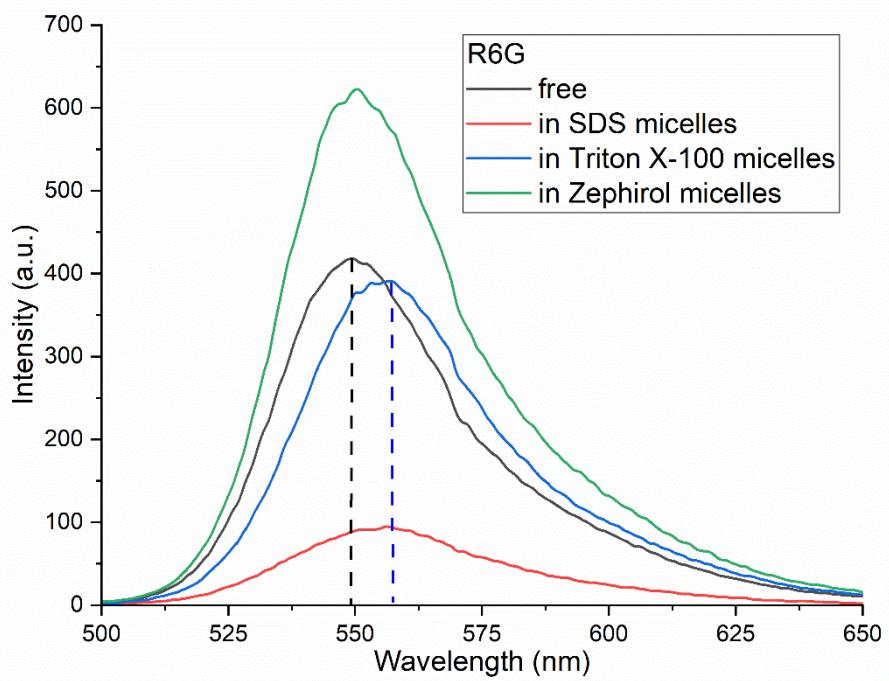
(a)



(b)



(d)



(e)

Figure S2. ^1H NMR of polymeric micellar systems with S-H or S-S bonds with R6G. Chit5-LA was studied as self-assembled polymer. As a control without S-H bonds Chit5-OA was used. D_2O . $T = 25^\circ\text{C}$.

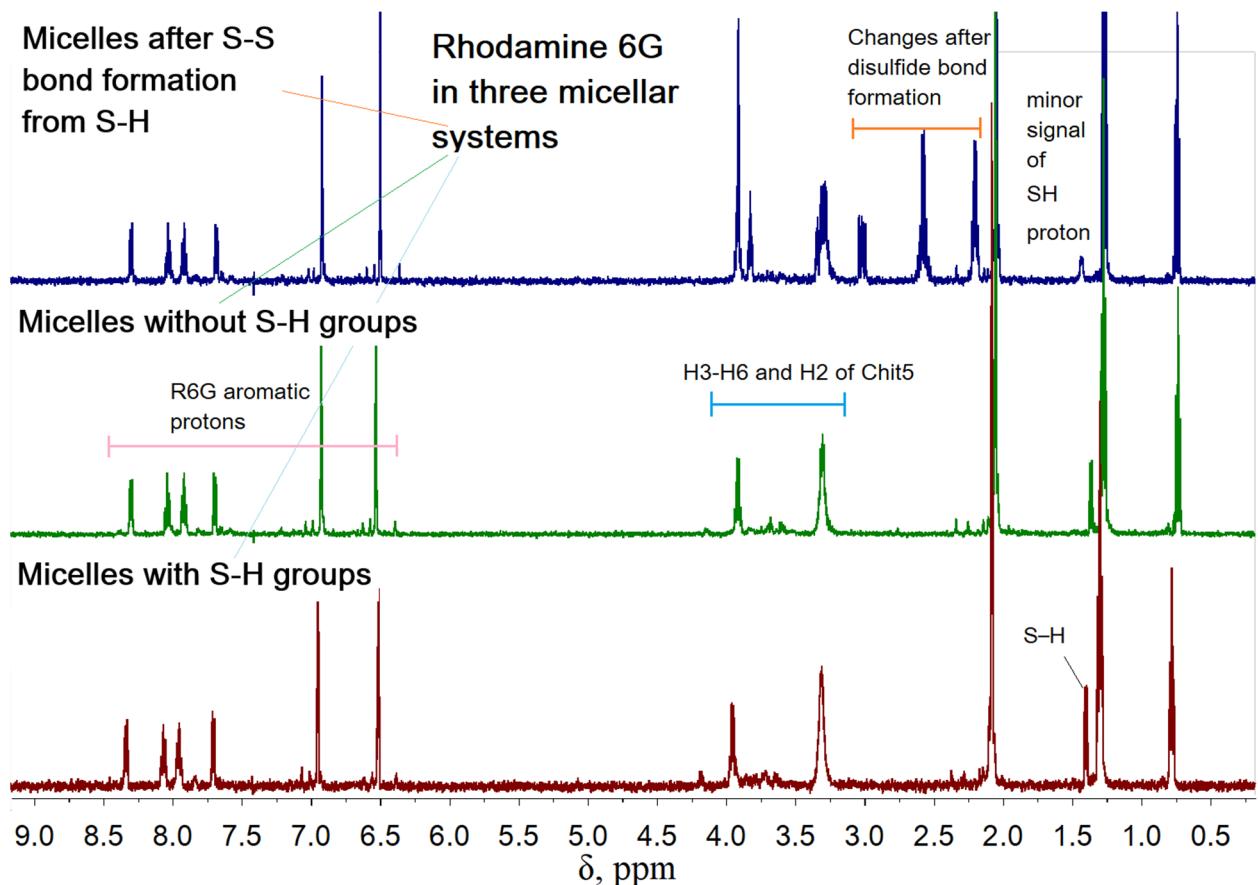


Figure S3. (a) AFM image of Chit5-LA particles and (b) the corresponding section along the blue line in height, respectively.

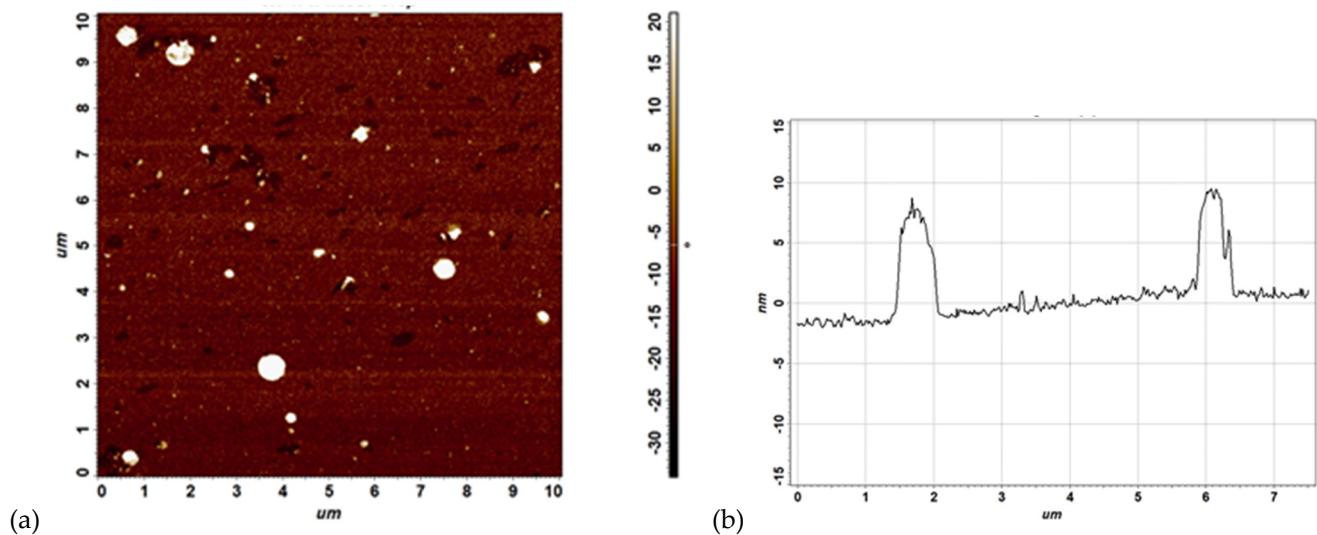


Figure S4. Fluorescence images of A549 after 60 min incubation with Rhodamine 6G 1 μ g/mL free or Rhodamine 6G in micelles (S-S stitched). R6G red, DAPI blue, and FITC-labelled micelles channels and merge are shown. R6G/micelle 1:1 w/w. The scale segment is 100 μ m.

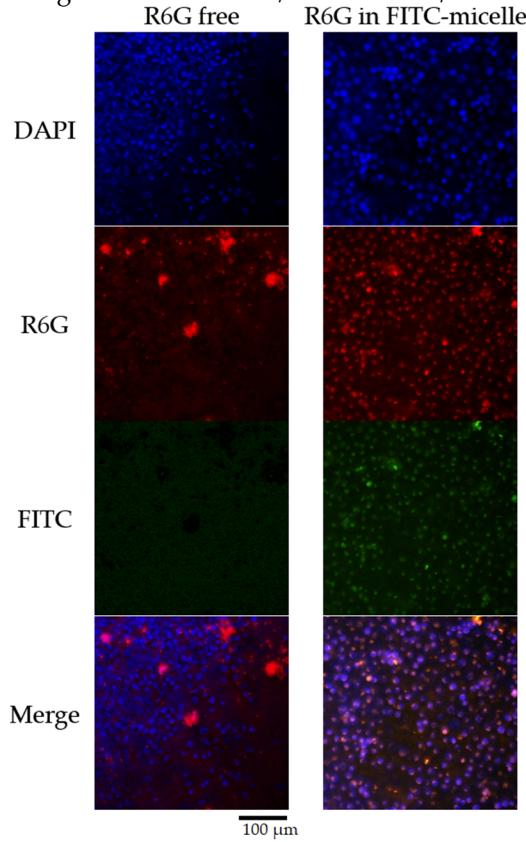


Figure S5. Flow cytometry assay of R6G-loaded micelles.

