

Photodegradable Hydrogels for External Manipulation of Cellular

Microenvironments with Real-time Monitoring

Hanxu Ji^a, Kai Xi^b, Qihong Zhang^b and Xudong Jia^{a*}

Correspondence to: Xudong Jia (E-mail: jiaxd@nju.edu.cn)

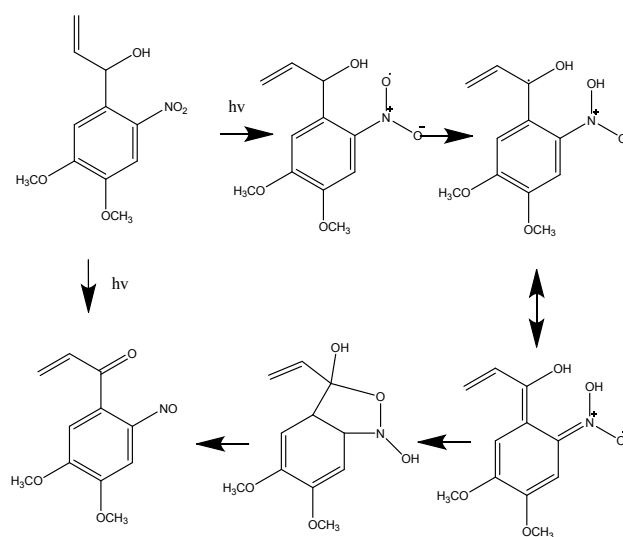


Figure S1 The mechanism of the structure change of compound **1** under UV light

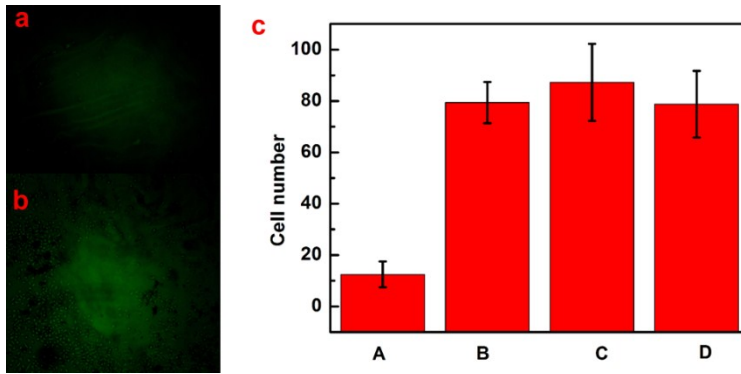


Figure S2 (a) the spotted hydrogel before A549 cell adhesion (b) the spotted hydrogel after A549 cell adhesion (c) the cell numbers incubated on different place of hydrogels: A: A549 cells on soft area, B: A549 cells on stiff area, C: Hela cells on soft area, D: Hela cells on stiff area.

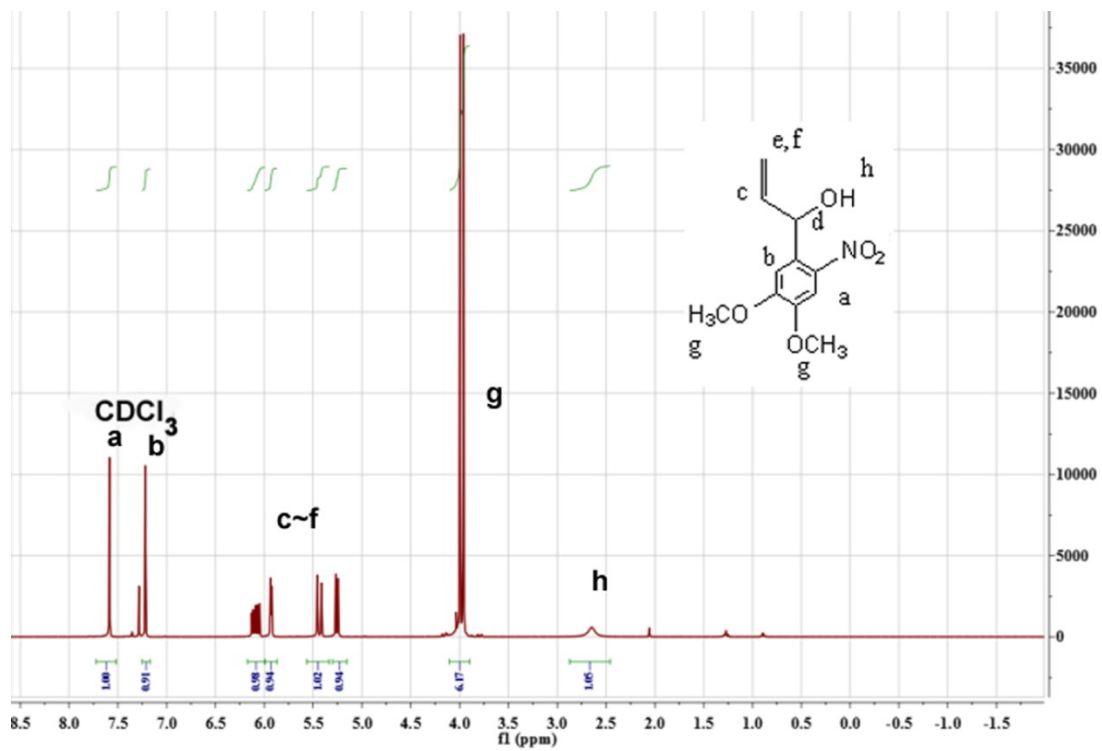


Figure S3 The ^1H NMR of compound 1

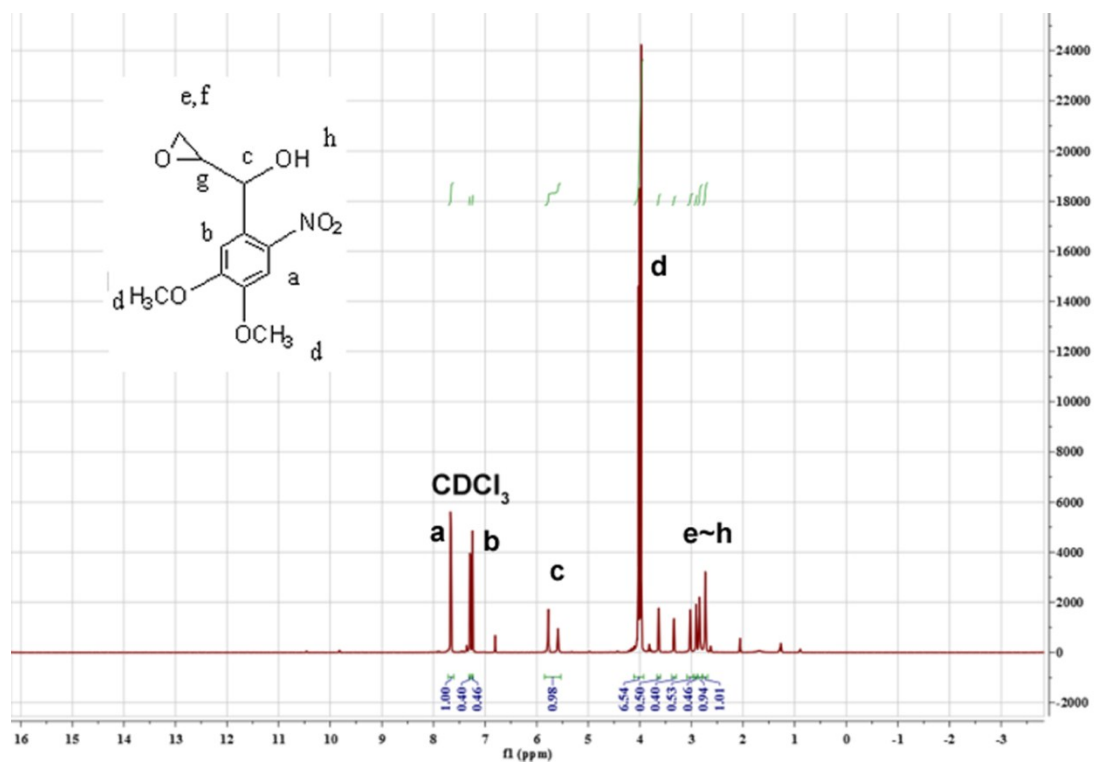


Figure S4 The ^1H NMR of compound 2

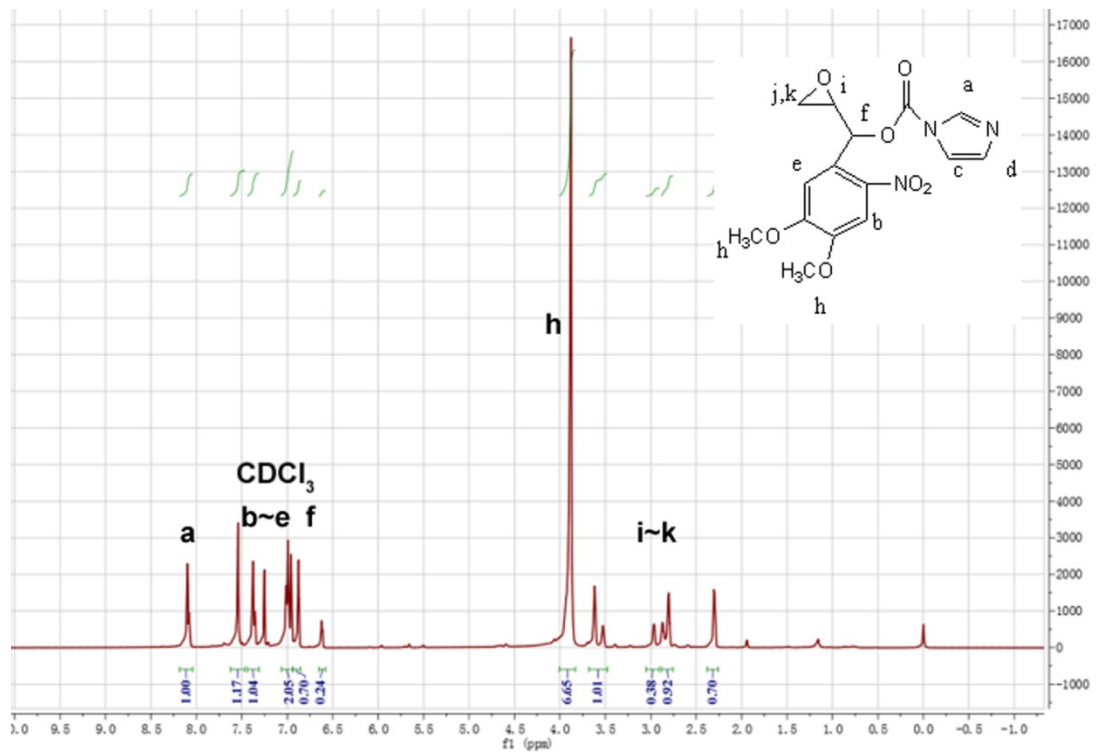


Figure S5 The ^1H NMR of compound 3

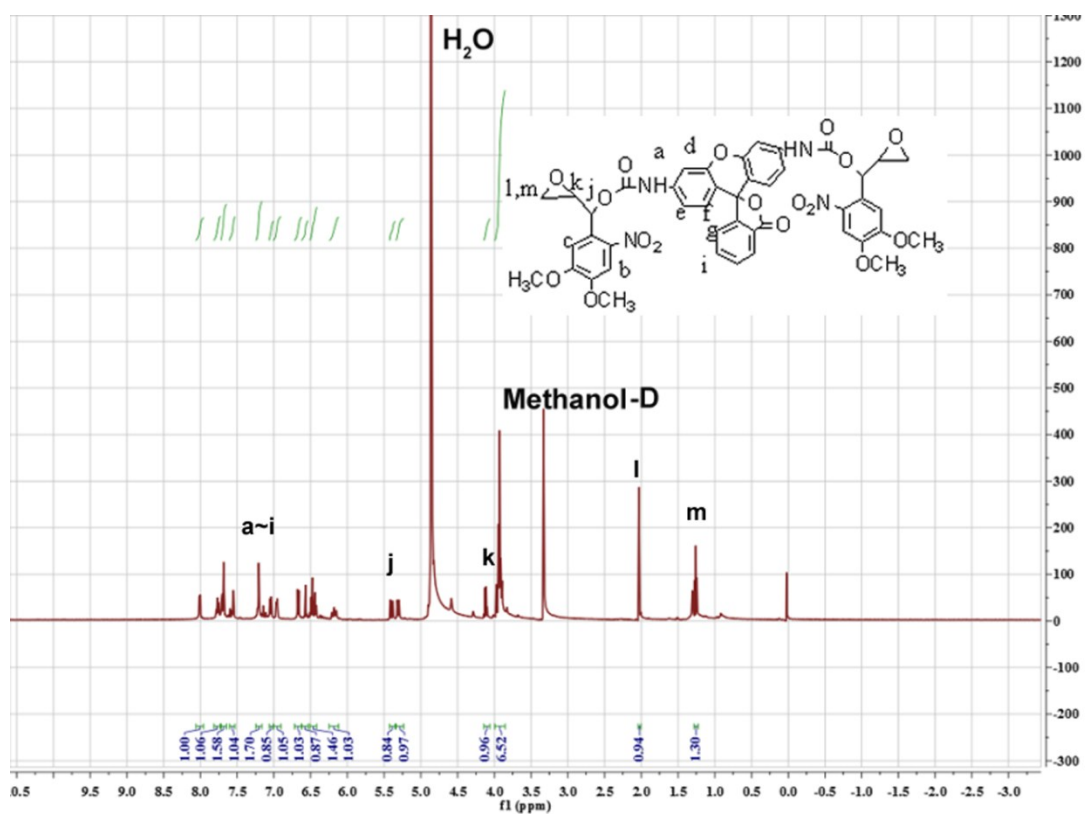


Figure S6 The ^1H NMR of compound 4

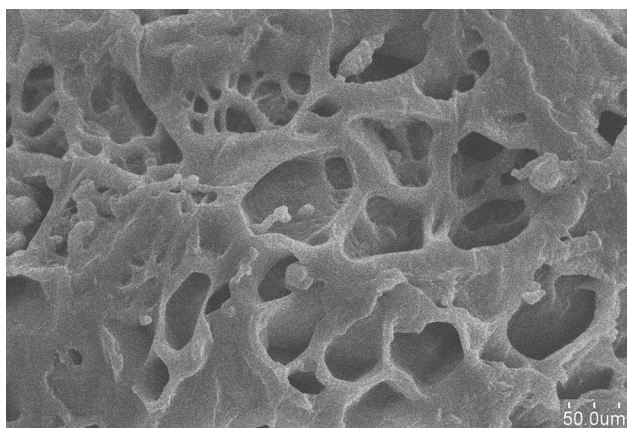


Figure S7 The SEM picture of hydrogel.

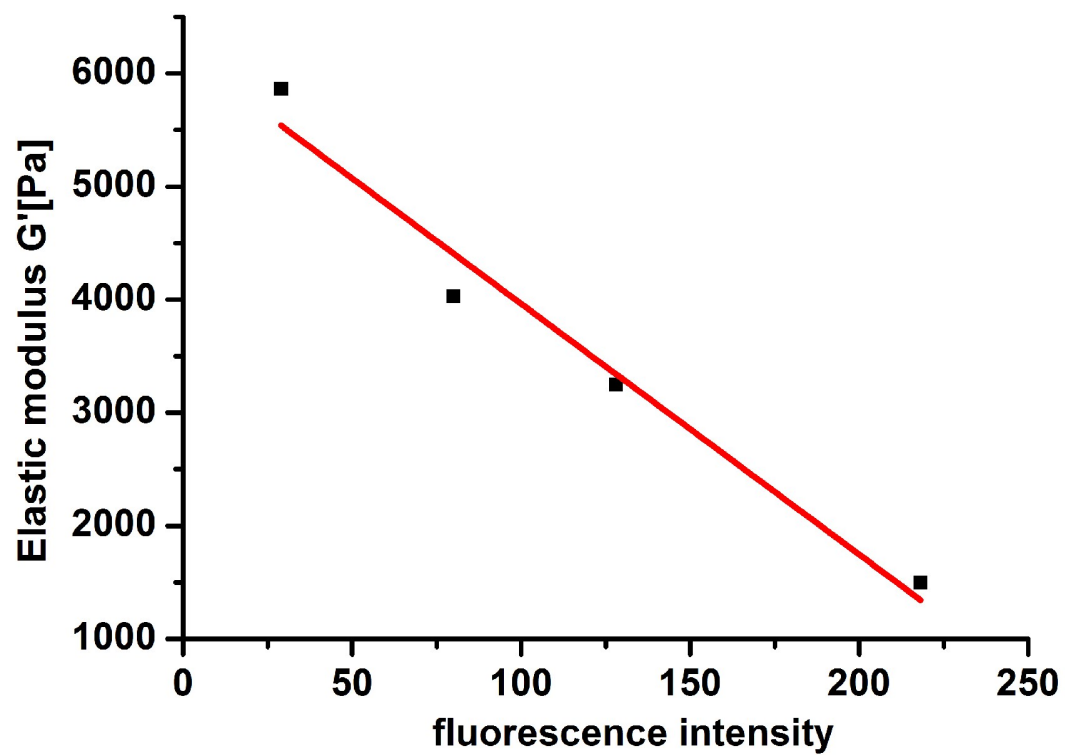


Figure S8 The relationship between the increasing of fluorescence and the decreasing of stiffness of hydrogel.