

Inflammation-Responsive Nanovalves of Polymer-Conjugated Dextran on a Hole Array of Silicon Substrate for Controlled Antibiotic Release

Ai-Wei Lee ^{1,2}, Pao-Lung Chang ¹, Shien-Kuei Liaw ³, Chien-Hsing Lu ^{4,5,*} and Jem-Kun Chen ^{2,*}

¹ Department of Anatomy and Cell Biology, School of Medicine, College of Medicine, Taipei Medical University, Taipei 106, Taiwan

² Department of Materials and Science Engineering, National Taiwan University of Science and Technology, Taipei 10607, Taiwan

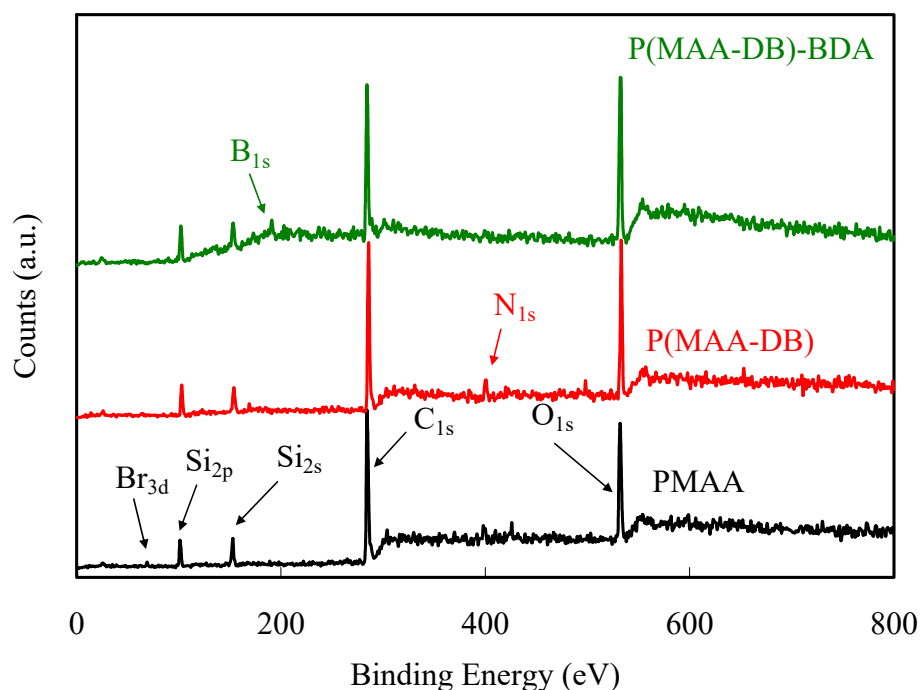
³ Department of Electronic and Computer Engineering, National Taiwan University of Science and Technology, Taipei 10607, Taiwan

⁴ Department of Obstetrics and Gynecology, Taichung Veterans General Hospital, Taichung 40705, Taiwan

⁵ Ph.D. Program in Translational Medicine, Institute of Biomedical Sciences, Rong-Hsing Research Center for Translational Medicine, National Chung-Hsing University, Taichung 40227, Taiwan

* Correspondence: chlu@vghc.gov.tw (C.-H.L.); jkchen@mail.ntust.edu.tw (J.-K.C.); Tel.: +886-2-27376523 (J.-K.C.); Fax: +886-2-27376544 (J.-K.C.)

(a)



(b)

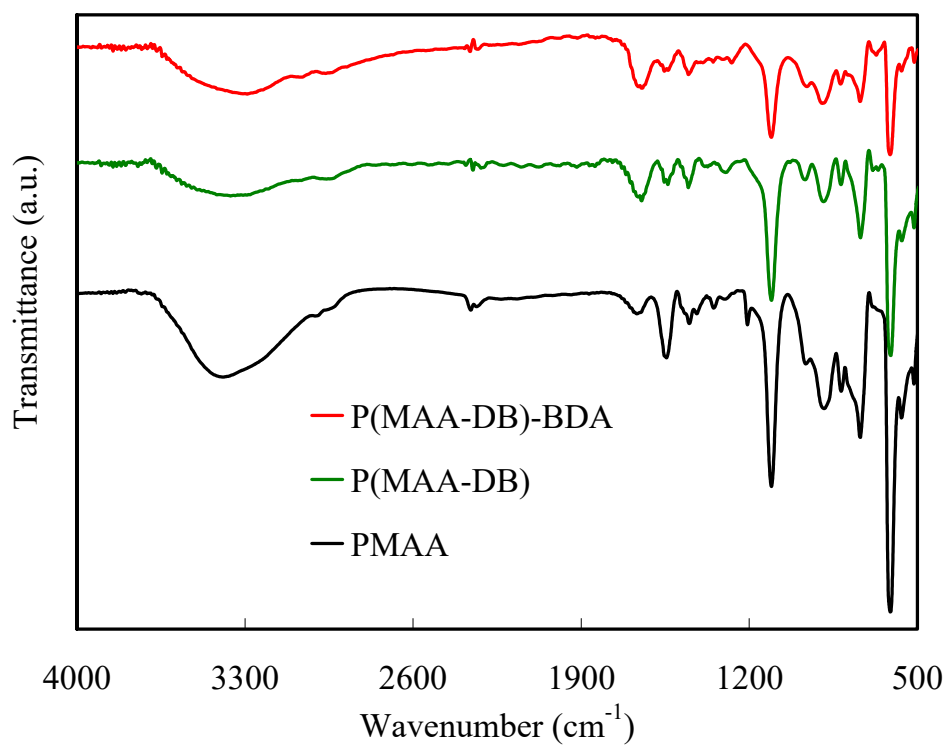


Figure S1. (a) XPS survey spectra and (b) FTIR spectra of 500H-PMAA, 500H-P(MAA-DB), and 500H-P(MAA-DB)-BDA.