Electronic Supporting Information

Functional Gold Nanoparticles for the Storage and Controlled Release of Nitric Oxide: Applications in Biofilm Dispersal and Intracellular Delivery

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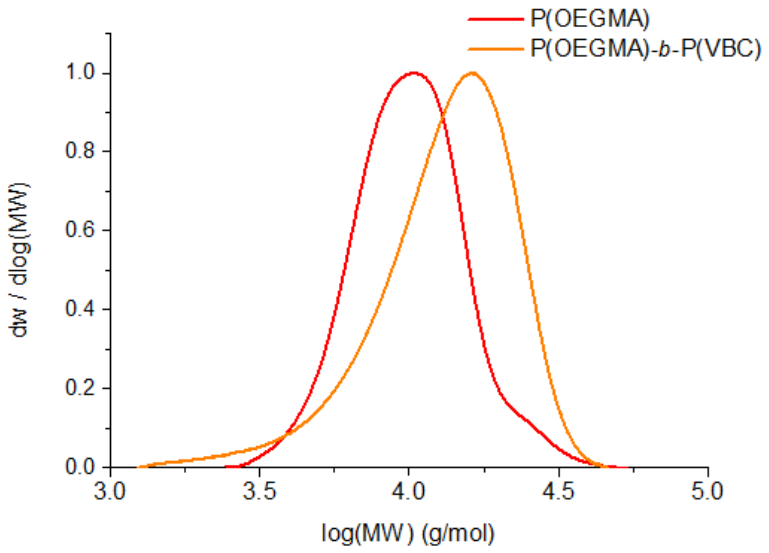


Figure S1. SEC of P(OEGMA) and block copolymer P(OEGMA)-*b*-P(VBC).

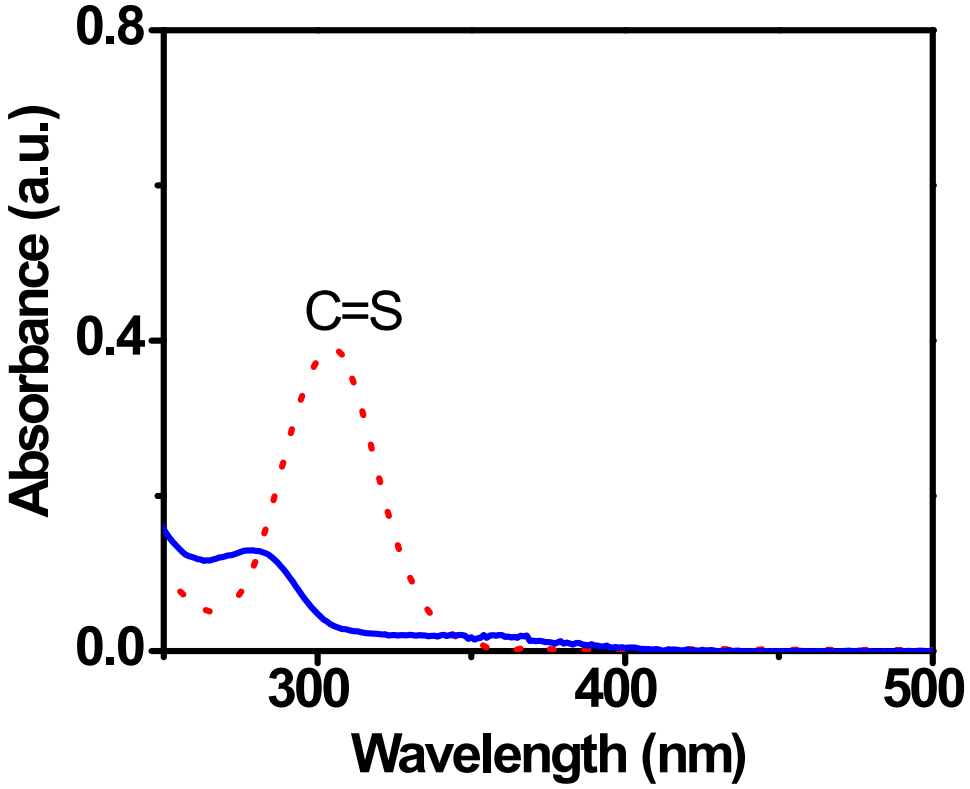


Figure S2. UV-vis. spectra of P(OEGMA)-P(VBC) before and after reaction with hexyl amine.

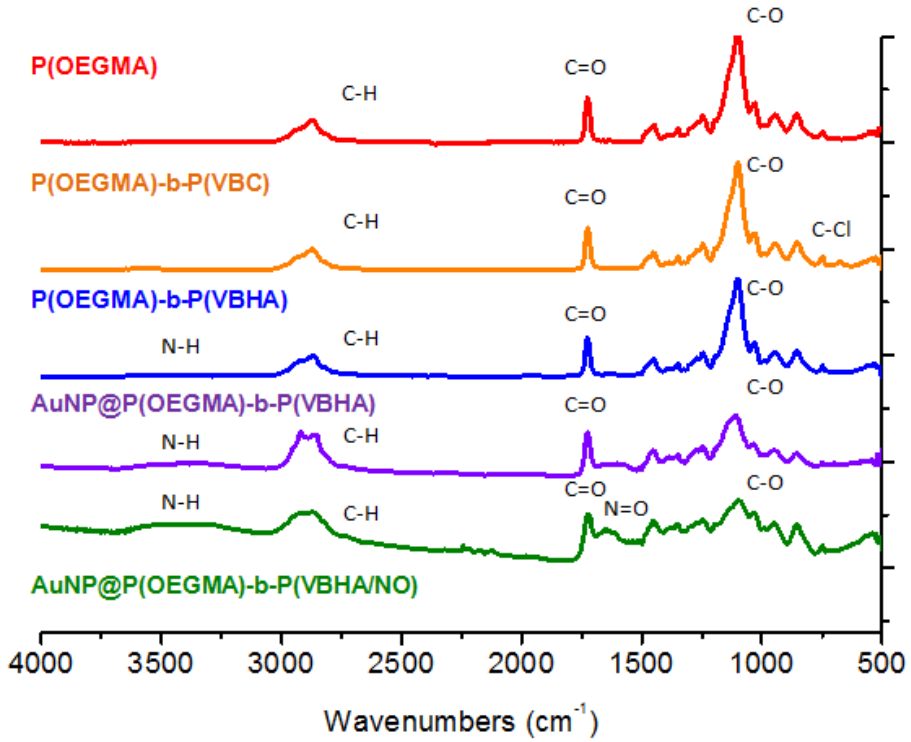
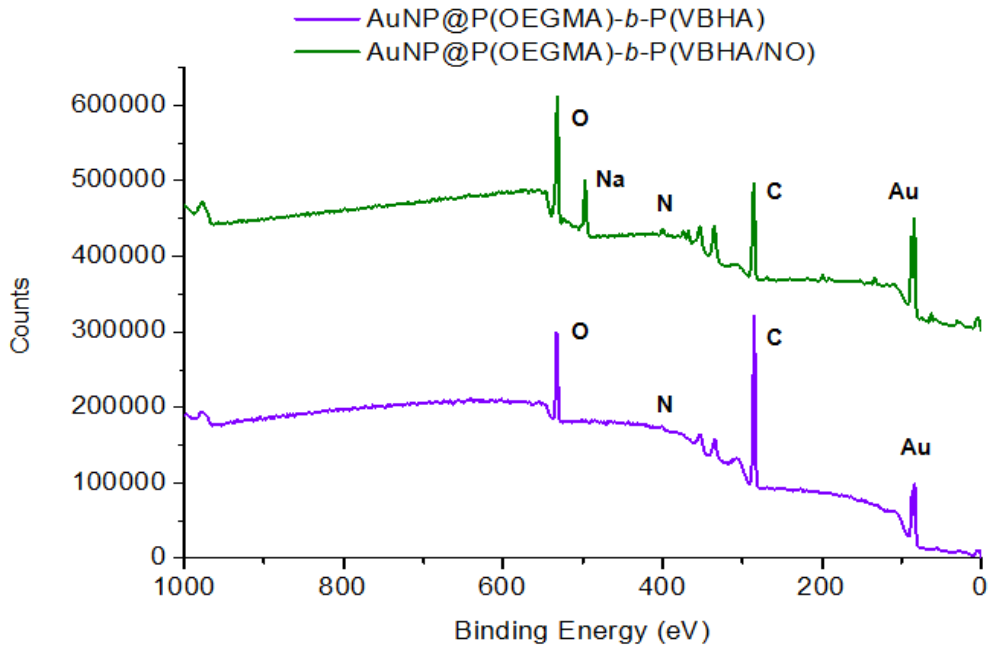


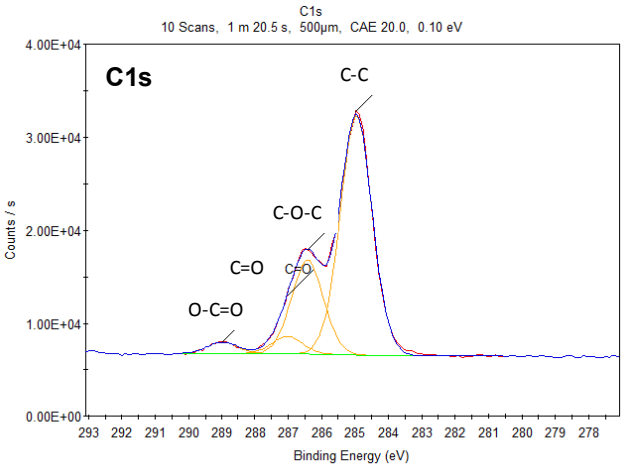
Figure S3. ATR-FTIR of block copolymers and their hybrid gold nanoparticles (AuNP).



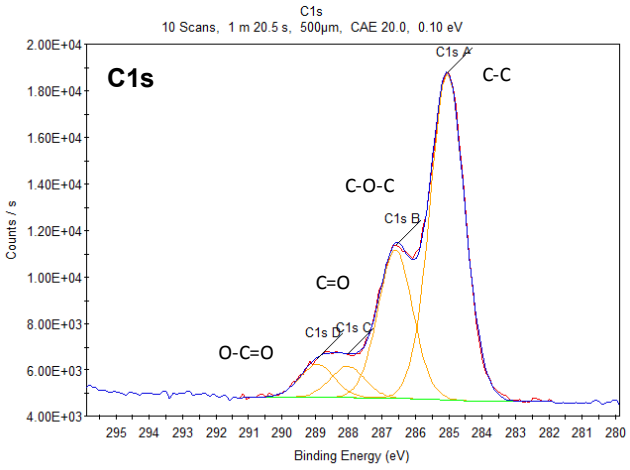
	C1s	Au4f7	O1s	N1s
AuNP@P(OEGMA)-*b*-P(VBHA)	81.5%	3.0%	14.9%	0.6%
AuNP@P(OEGMA)-*b*-P(VBHA/NO)	65.7%	4.5%	28.4%	1.5%

Figure S4. XPS analysis of polymer/gold hybrid nanoparticles AuNP@P(OEGMA)-*b*-P(VBHA) before and after NO conjugation. The table summarizes the atomic percentages.

AuNP@P(OEGMA)-*b*-P(VBHA)



AuNP@P(OEGMA)-*b*-P(VBHA/NO)



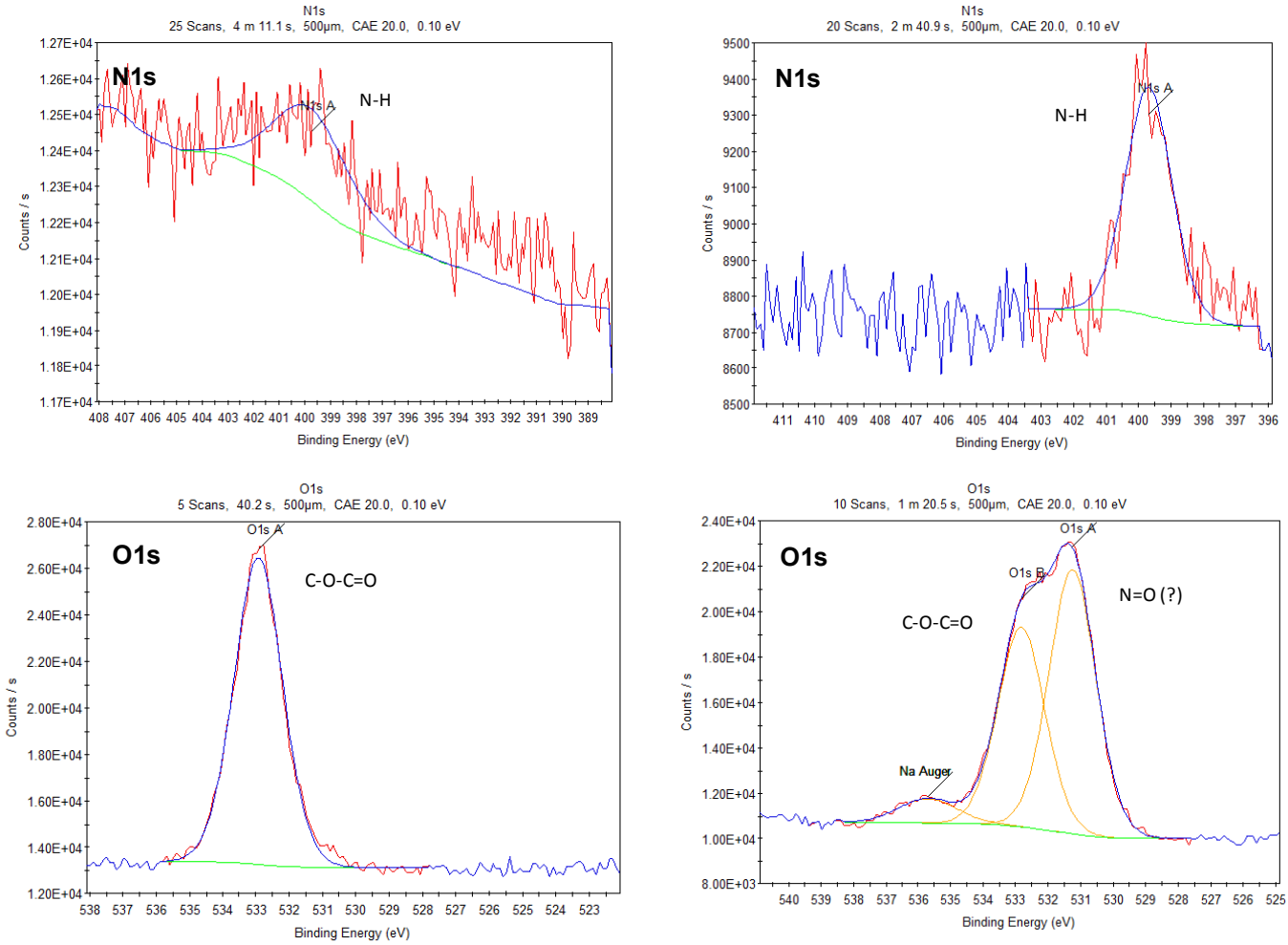


Figure S5. Carbon (C1s), nitrogen (N1s) and oxygen (O1s) peaks from the XPS analysis of polymer/gold hybrid nanoparticles AuNP@P(OEGMA)-*b*-P(VBHA) before and after NO conjugation.

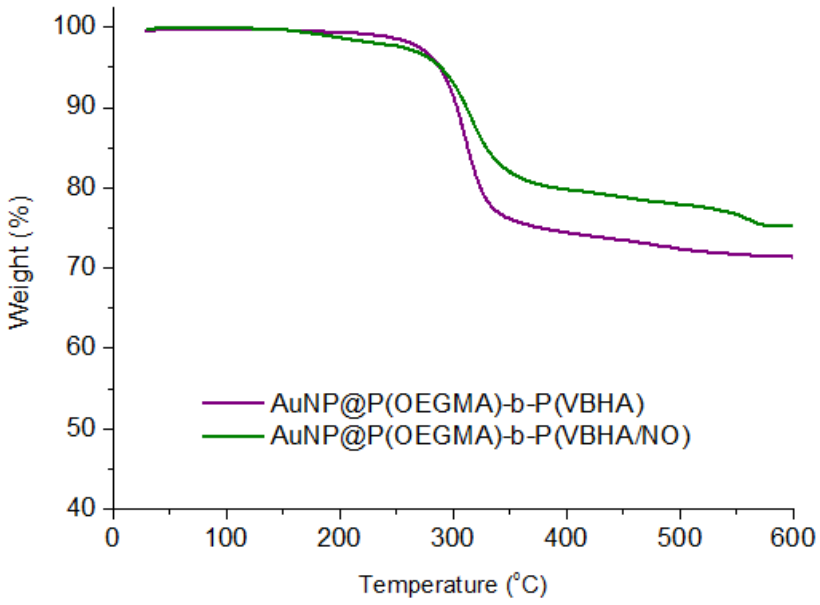


Figure S6. TGA of polymer/gold hybrid nanoparticles AuNP@P(OEGMA)-*b*-P(VBHA) before and after NO conjugation. Samples were pre-dried before measurement that potentially releases the nitric oxide gas.

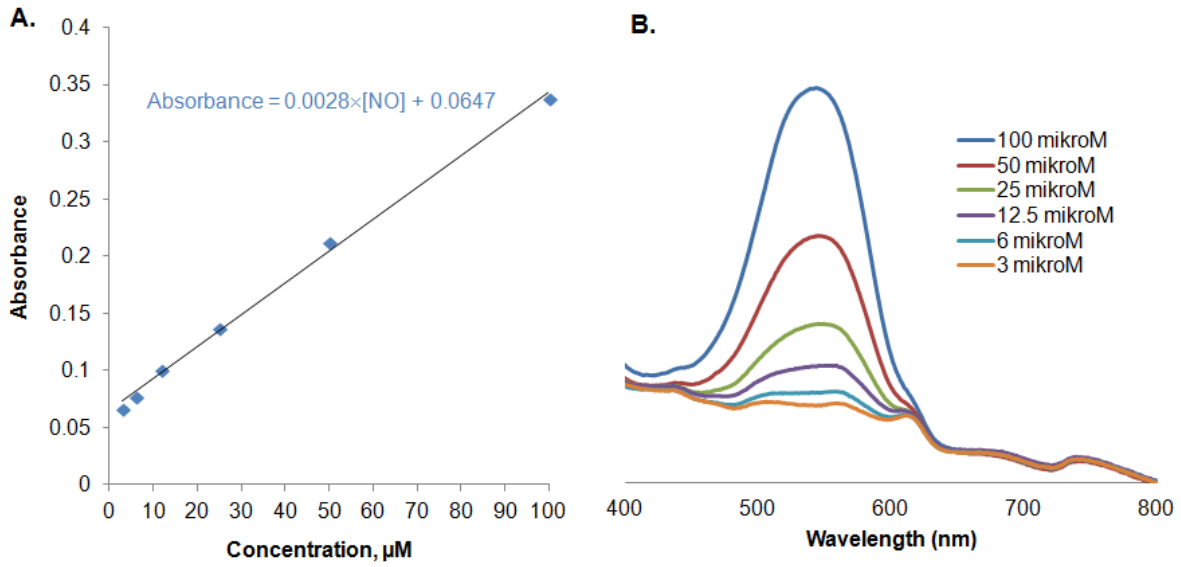


Figure S7. Calibration curve (A) and UV-Vis absorption (B) of the azo dye generated in the Griess assay at different concentration of nitric oxide.