SUPPORTING INFORMATION to:

Bioconjugation of Protein-Repellent Zwitterionic Polymer Brushes Grafted from Silicon Nitride

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CONTENTS

1. Narrow-scan XPS spectrum of S_{2p} region of polySBMA surface

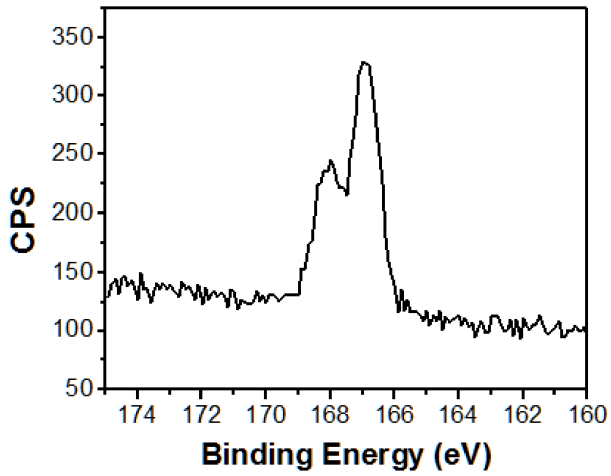

Figure S1. Narrow-scan XPS spectrum of S_{2p} region of polySBMA surface

2. Relationship between polySBMA thickness and the intensity of retained bromides obtained by wide-scan XPS spectra.

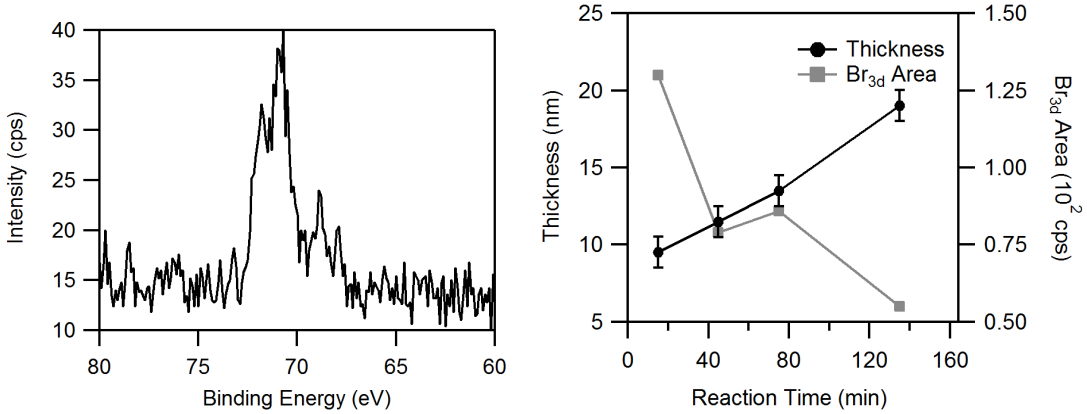

Figure S2. Narrow-scan XPS spectrum of Br_{3d} region (left) of a polySBMA-coated Si_xN_4 surface and polySBMA film thickness and Br_{3d} signal intensity as function of polymerization time (right)

3. Fibrinogen adsorption on polySBMA surfaces with different thicknesses in comparison with hydrophobic C_{16}-coated surfaces was measured by reflectometry.[1]

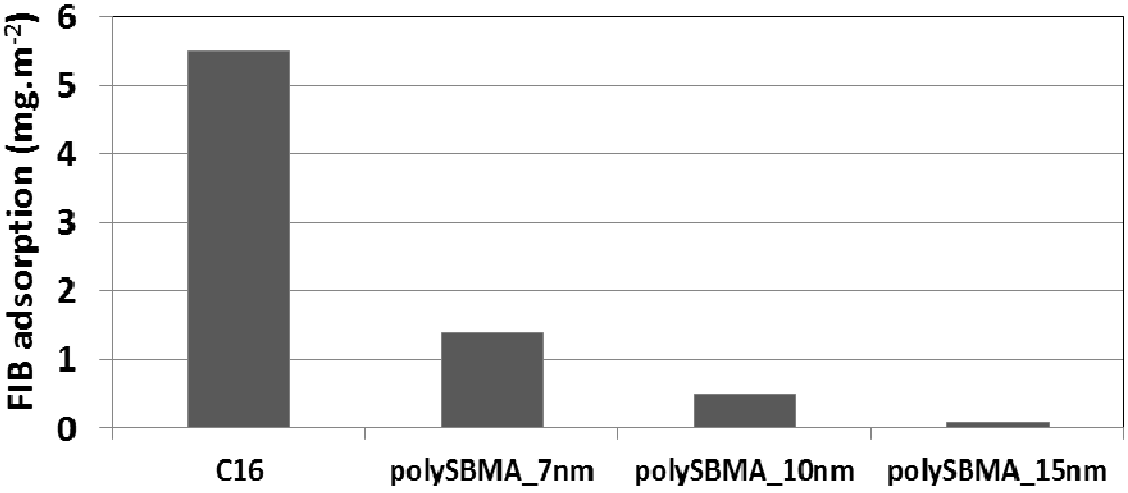

Figure S3: FIB adsorption on modified surfaces
FIB concentration in PBS was 0.1 $g.L^{-1}$.

4. Narrow-scan XPS spectrum of Br_{3d} region of NH_2-polySBMA surface showing disappearance of Br_{3d} signal at 70 eV.

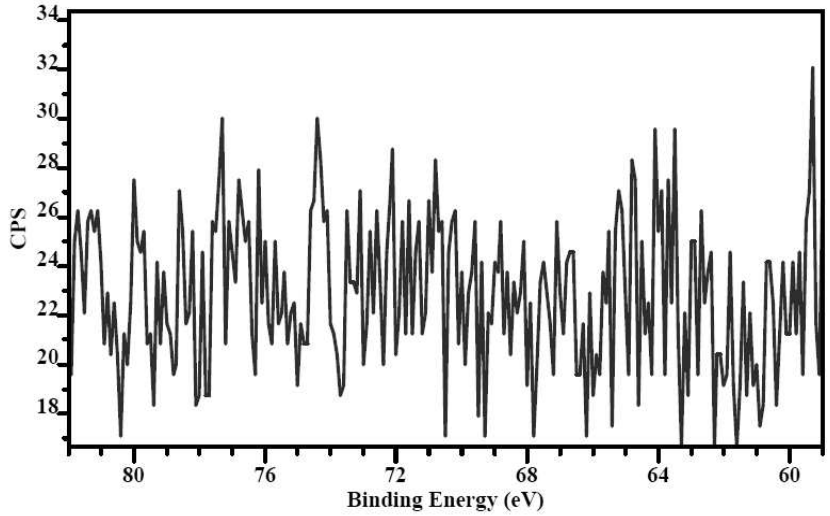

Figure S4. Narrow-scan XPS spectrum of Br_{3d} region of NH_2-polySBMA surface

5. Top-view and cross-section AFM images of the polySBMA films after reaction with trifunctional tris(2-aminoethyl)amine linkers and bifunctional suberic acid bis(*N*-hydroxysuccinimide ester), respectively.

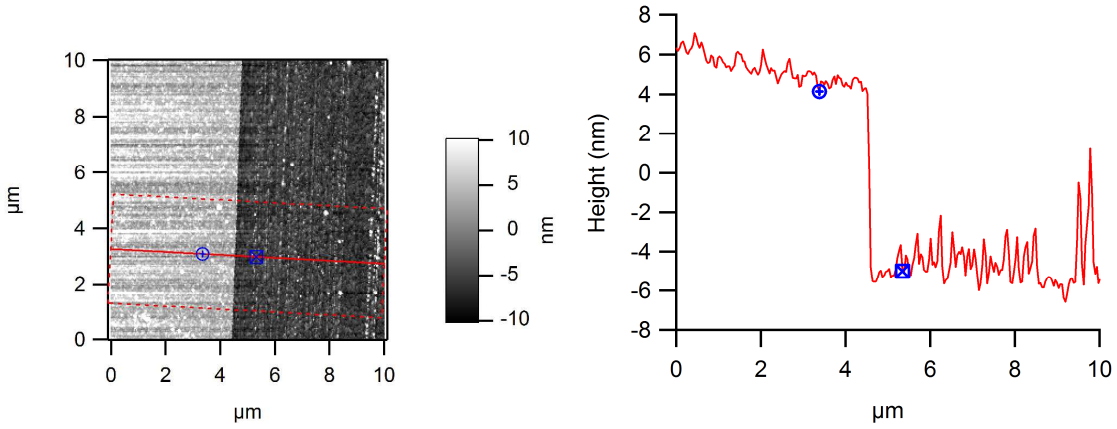

Figure S5. Top-view (left) and cross-section (right) AFM images of polySBMA

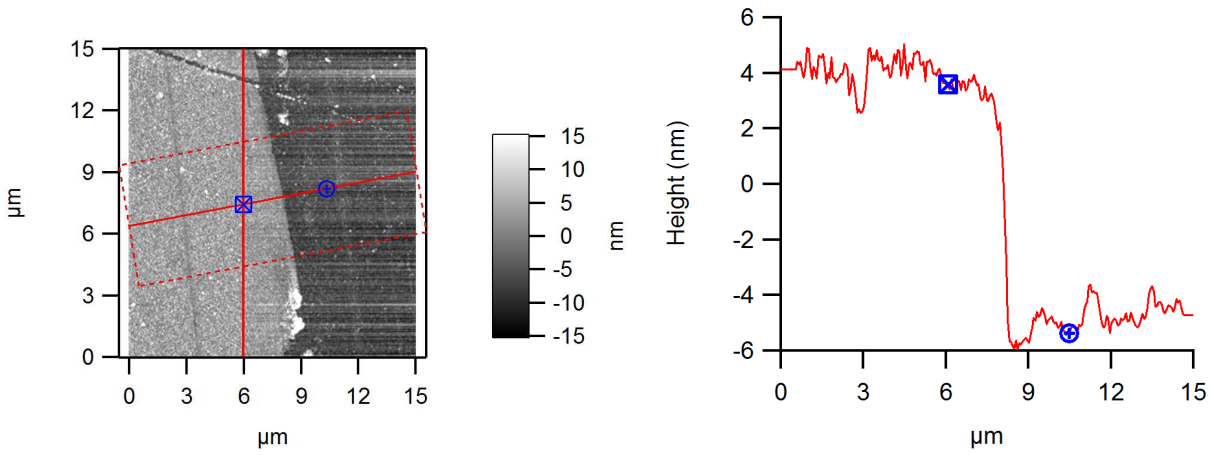

Figure S6. Top-view (left) and cross-section (right) AFM images of NH_2-polySBMA

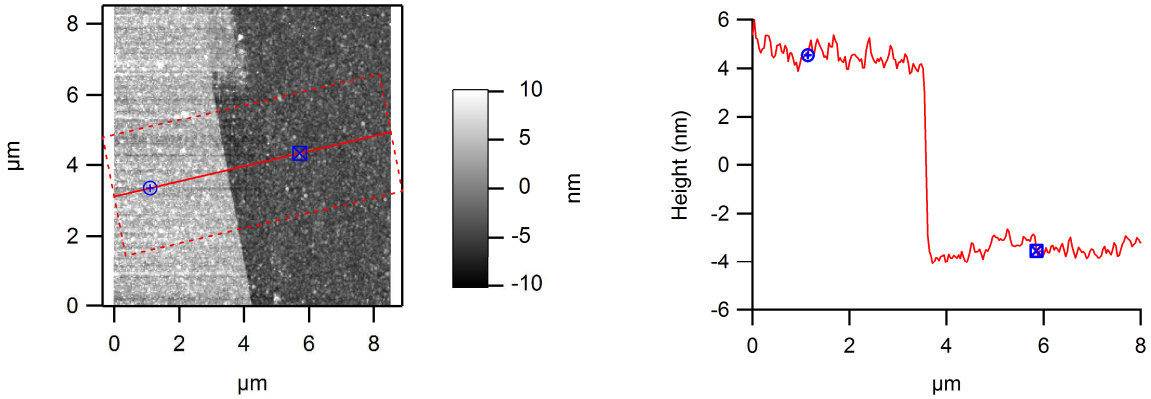

Figure S7. Top-view (left) and cross-section (right) AFM images of NHS-polySBMA

6. Top-view and cross-section AFM images of the NHS-polySBMA surface (before antibody attachment) and antibody-coated polySBMA (after antibody attachment)

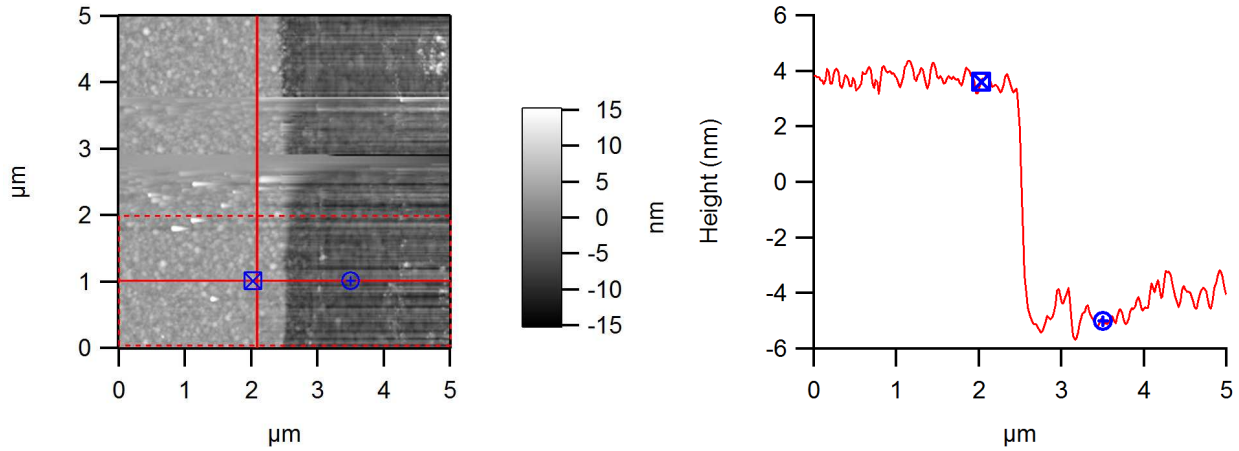

Figure S8. Top-view (left) and cross-section (right) AFM images of NHS-polySBMA

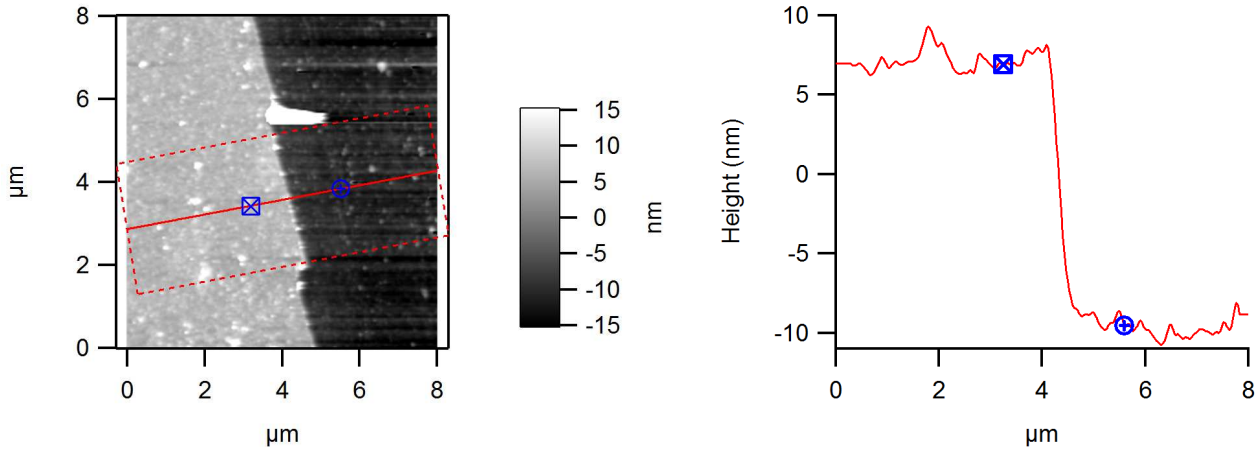

Figure S9. Top-view (left) and cross-section (right) AFM images of antibody-polySBMA

7. Narrow-scan XPS spectrum of C_{1s} region of antiboby-polySBMA surface

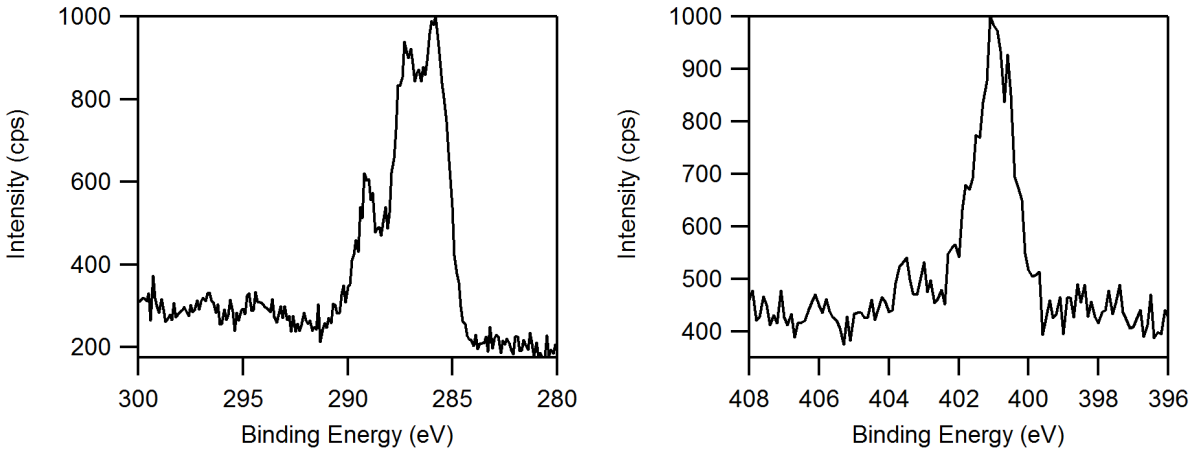

Figure S10. Narrow-scan XPS spectrum of C_{1s} region (left) and N_{1s} region (right) of antibody-polySBMA surface

REFERENCE:

1. Nguyen, A. T.; Baggerman, J.; Paulusse, J. M. J.; van Rijn, C. J. M.; Zuilhof, H., Langmuir 2011, 27, (6), 2587-2594.