

Figure S1. Representative TEM images and size distribution histograms of (A) MPNH₂-AuNPs and (B) MPA-AuNPs.

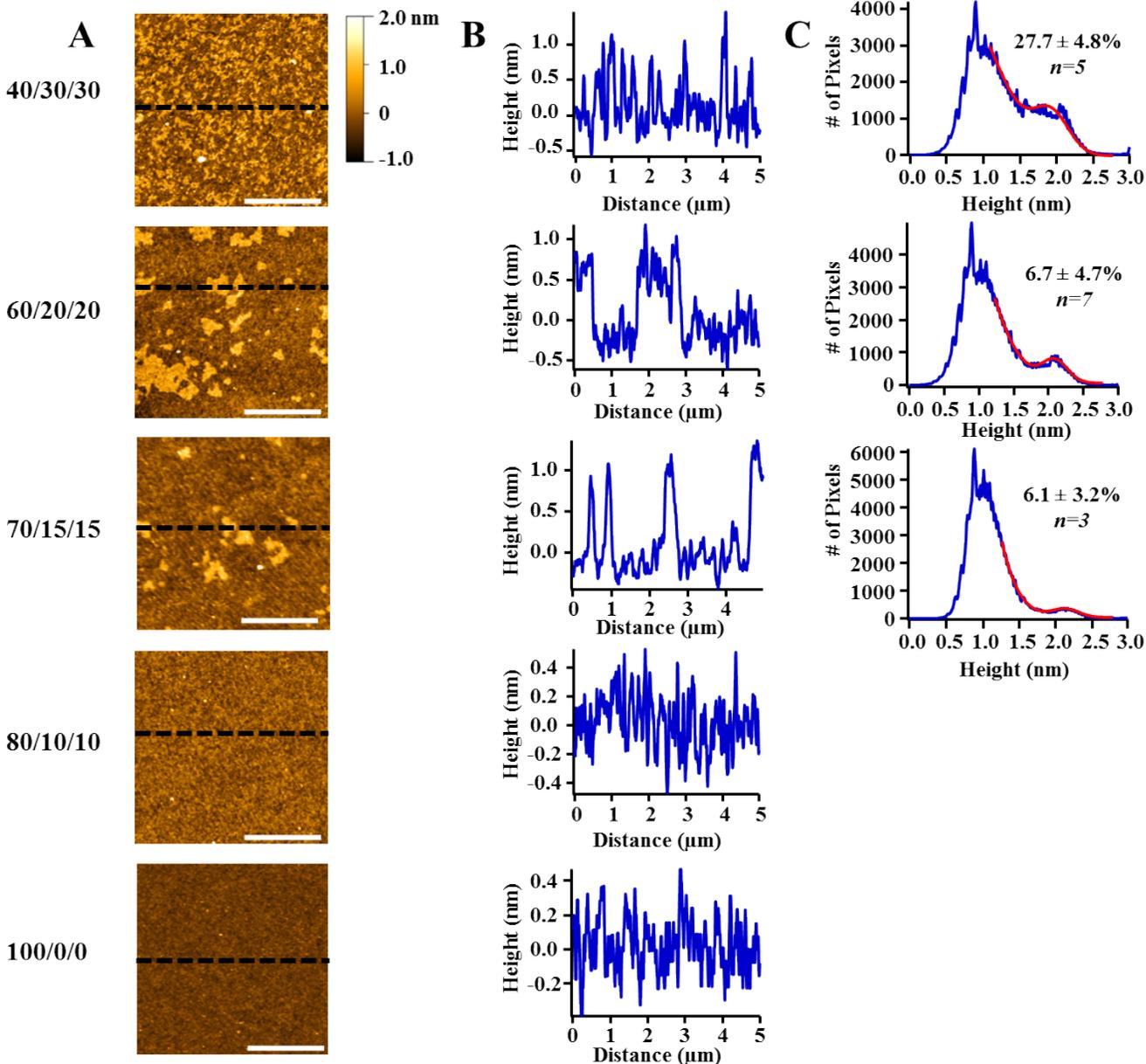


Figure S2. (A) Tapping mode AFM images of supported lipid bilayers formed from the indicated molar ratios of DOPC, SM, and Chol. (B) Representative line scans next to the images show the height difference between L_o and L_d phases to be ~ 1 nm. (C) Histograms showing the two distinct height regions. Fractional coverage estimates based on fitting the L_o domain peak (at ~ 2 nm) in the histogram and determining a fractional area coverage are listed for the 40/30/30, 60/20/20, and 70/15/15 mol% DOPC/SM/Chol combinations. No phase-segregated domains were visible at 80/10/10 or pure DOPC composition. Scale bars are $2 \mu\text{m}$ and the z -axis applies to all images.

Supported lipid bilayer	$ (d\Delta f_3/5)/dt $
DOPC	12.2 ± 1.6
DOPC/SM/Chol	11.5 ± 2.3
DOPC/SM/Chol + G _{M1}	14.1 ± 1.2

Figure S3. Initial rates of MPNH₂-AuNP attachment to supported lipid bilayers in 0.001 M NaCl, pH 7.4 (0.01 M Tris) buffer. Initial attachment rates did not differ ($p > 0.05$; $n = 3$).