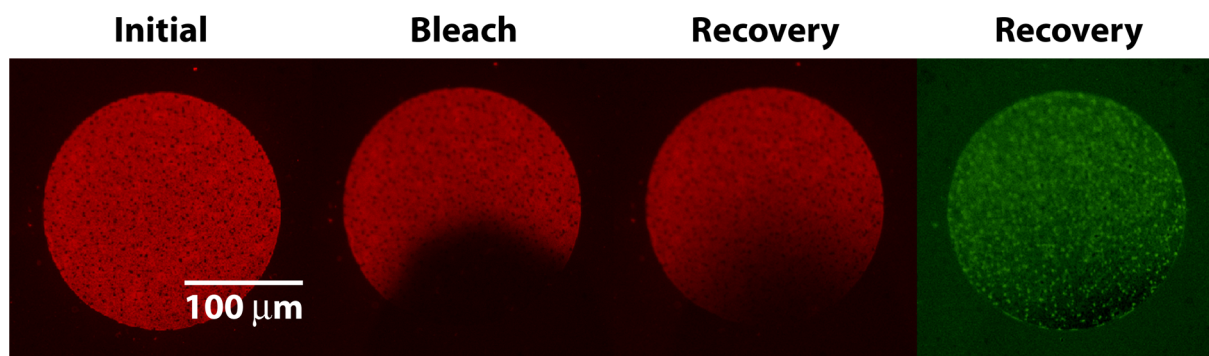


**Figure S1.** Fluorescence recovery after photobleaching (FRAP) test for four homogeneous bilayer stack SLB micropatterns. Epifluorescence images of each layer were taken before photobleaching, after photobleaching, and after partial fluorescence recovery. All images were acquired at the same magnification.



**Figure S2.** Epifluorescence images of fluorescence recovery after photobleaching (FRAP) test for a two-bilayer SLB stack composed of a phase-segregated bilayer (red) deposited on a homogeneous bilayer (green). Epifluorescence images of each layer were taken before photobleaching, after photobleaching, and after partial fluorescence recovery.