CONTROLLING CELL ADHESION ON POLYURETHANES

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Supporting Information

Hydrolysis plots for (a) 12b and (b) 13b, and (c) calculation of sample surface loading.
(a) Hydrolysis of DANSYL-Cys from 12b measured for a surface area of 5 cm$^2$.

(b) Hydrolysis of DANSYL-Cys from 13b measured for a surface area of 3 cm$^2$. No increase in dissolved DANSYL-Cys was observed after 24 hours compared to control. The increase in the amount of fluorescent material after 150 h is due to release at pH 12.5 and is a measure of surface bound DANSYL-Cys at pH 7.5.
Sample calculation of spatial surface loading from molecular “footprint” and molar surface loading:

\[ 110 \text{ pmol RGDC/cm}^2 = 6.6 \times 10^{13} \text{ molecules RGDC/cm}^2 \]

Assuming a 40 Å\(^2\) “footprint” for an RGDC molecule, spatial coverage is 0.26 cm\(^2\)/cm\(^2\), or approximately 25 \%. 