

# Liposomes equipped with poly(N-isopropyl acryl amide)-containing coatings as potential drug carriers

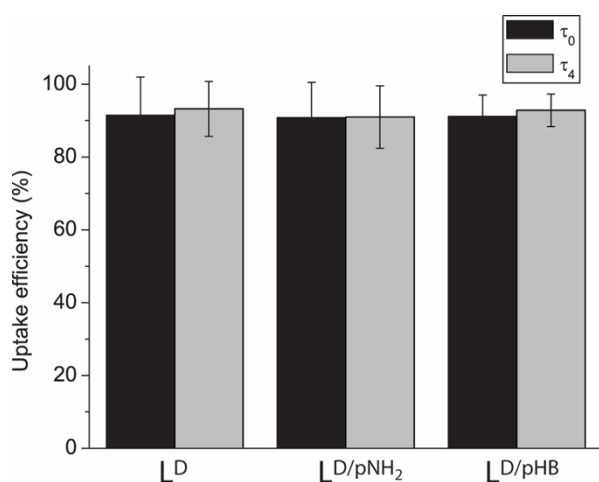
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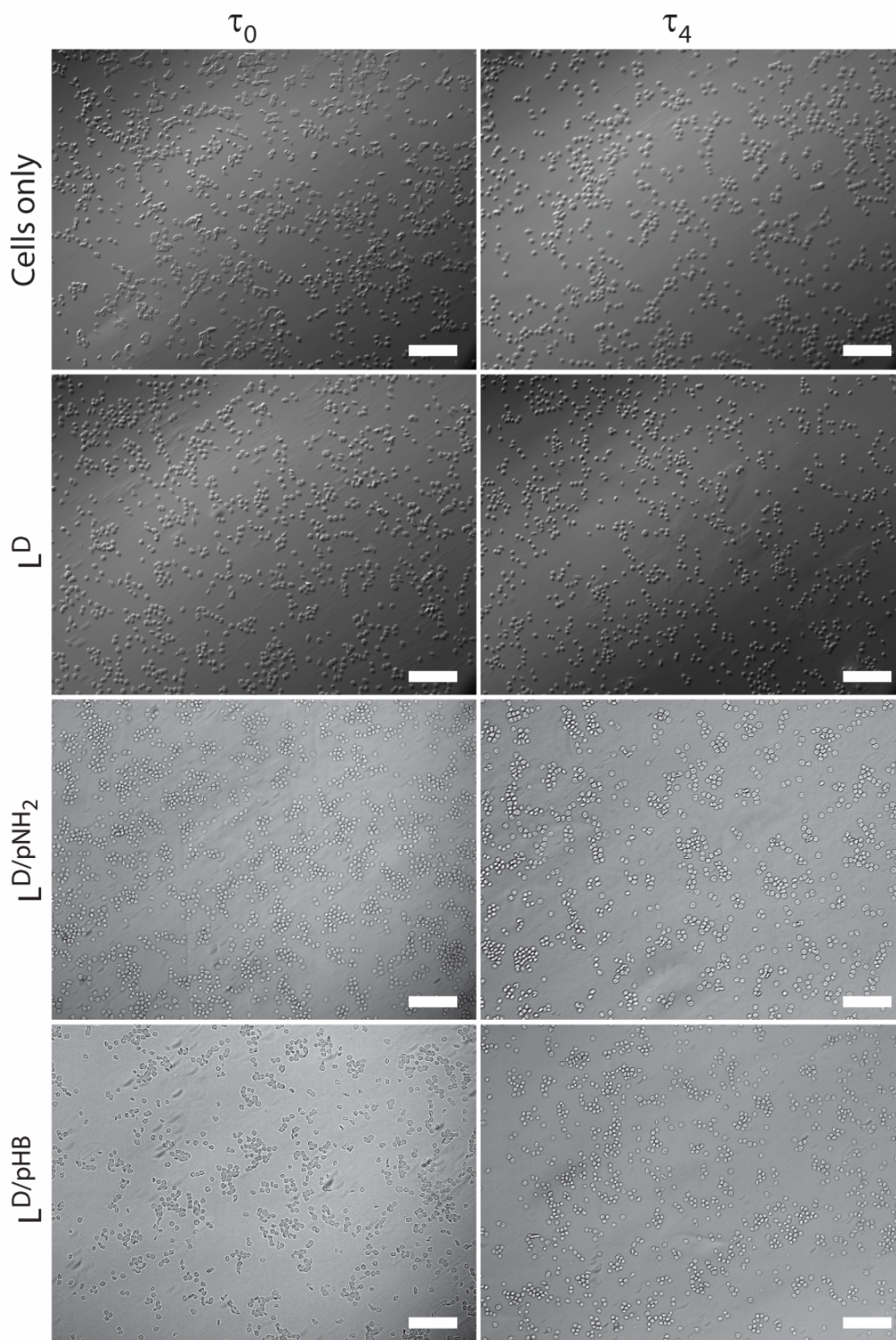
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**Table S1.** Diameter and PDI of liposomes coated with PDA ( $L^D$ ), PDA/ pNiPAAm-NH<sub>2</sub> ( $L^{D/pNH_2}$ ) or PDA/pNiPAAm-HB ( $L^{D/pHB}$ ) for 30 min for  $L^D$  and 70 min for  $L^{D/pNH_2}$  and  $L^{D/pHB}$  after dialysis.

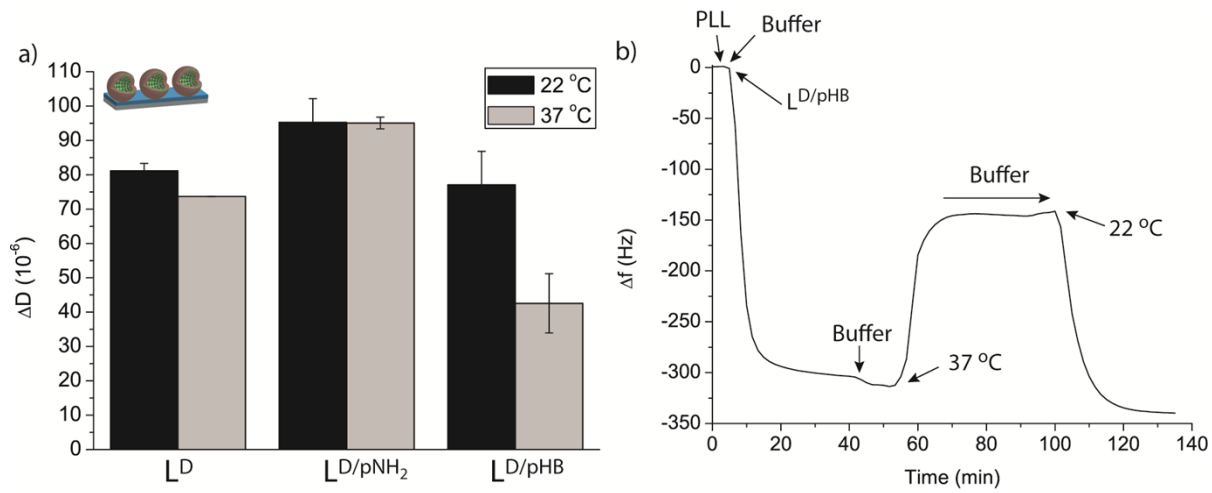
Liposome	Diameter(STD) [nm]	PDI(STD)
$L^D$	227(11)	0.29 (0.09)
$L^{D/pNH_2}$	297(37)	0.23(0.09)
$L^{D/pHB}$	307(25)	0.18(0.03)



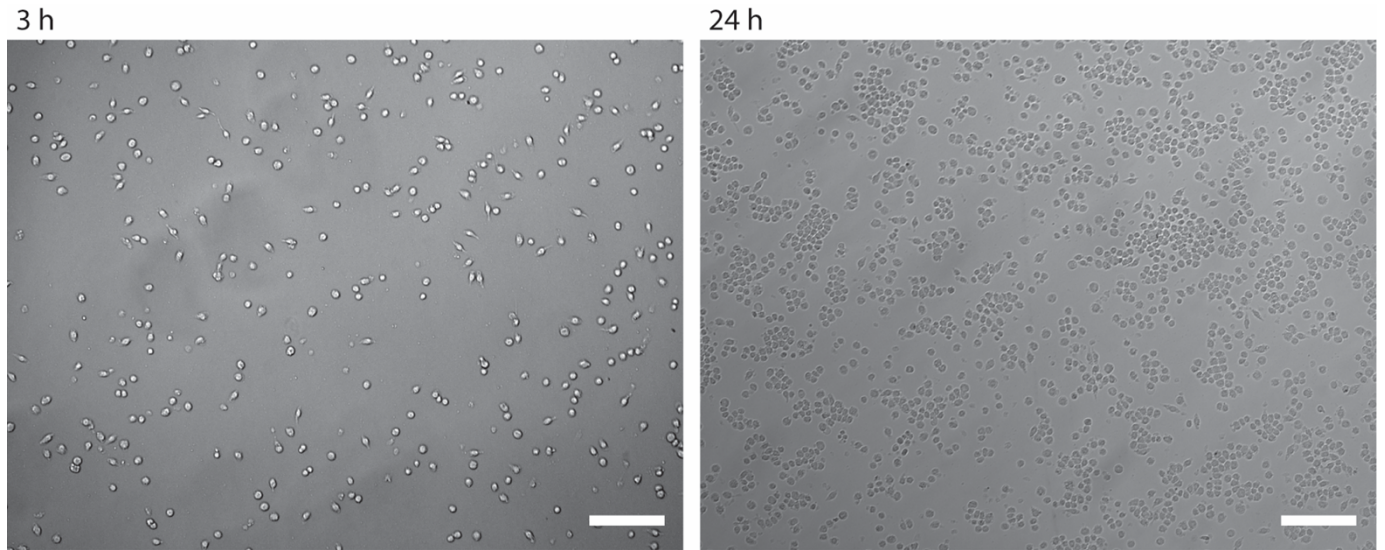
**Figure S1.** Interaction with macrophages considering shear stress: Uptake efficiency of  $L^D$ ,  $L^{D/pNH_2}$  or  $L^{D/pHB}$  by macrophages after 2.5 h at  $\tau_0$  or  $\tau_4$ .



**Figure S2.** Overview bright field images of macrophages exposed to  $L^D$ ,  $L^{D/pNH_2}$  or  $L^{D/pHB}$  at  $\tau_0$  or  $\tau_4$  for 2.5 h. The scale bars are 200  $\mu m$ .



**Figure S3.** a) Adsorption of coated liposomes: Dissipation changes  $\Delta D$  of PLL coated QCM-D crystals upon exposure to  $L^D$ ,  $L^{D/pNH_2}$  or  $L^{D/pHB}$  at 22 °C and 37 °C. b) QCM-D sample curve of crystals coated with PLL,  $L^{D/pHB}$  at 22 °C followed by a temperature increase to 37 °C for 1 h constantly flowing buffer solution over the surface, and cooling down to 22 °C in the end. Since  $\Delta f$  before and after the temperature increase were found to be similar, the coated liposomes were stable adsorbed.



**Figure S4.** Overview bright field images of macrophages adhering to PDA coated surfaces for 3 h (top) and 24 h (bottom). The scale bars are 200  $\mu m$ .