



**Supplementary information, Figure S2** Acute cell necrosis induced by cationic carriers in normal cells.

Normal primary cells including mouse dermal fibroblasts, peritoneal macrophages and splenic lymphocytes were prepared and treated with DOTAP liposome (50 $\mu$ g/ml), PEI (10 $\mu$ g/ml) and Chitosan (50 $\mu$ g/ml) for 10 min. The necrotic cells were detected by flow cytometry with Annexin-V and PI staining. Data are mean  $\pm$  SEM;  $n=3$ . \*\*\* $P<0.001$  by Student's  $t$ -test.