pharmaceutics

MDPI

Novel Efficient Lipid-Based Delivery Systems Enable a Delayed Uptake and Sustained Expression of mRNA in Human Cells and Mouse Tissues

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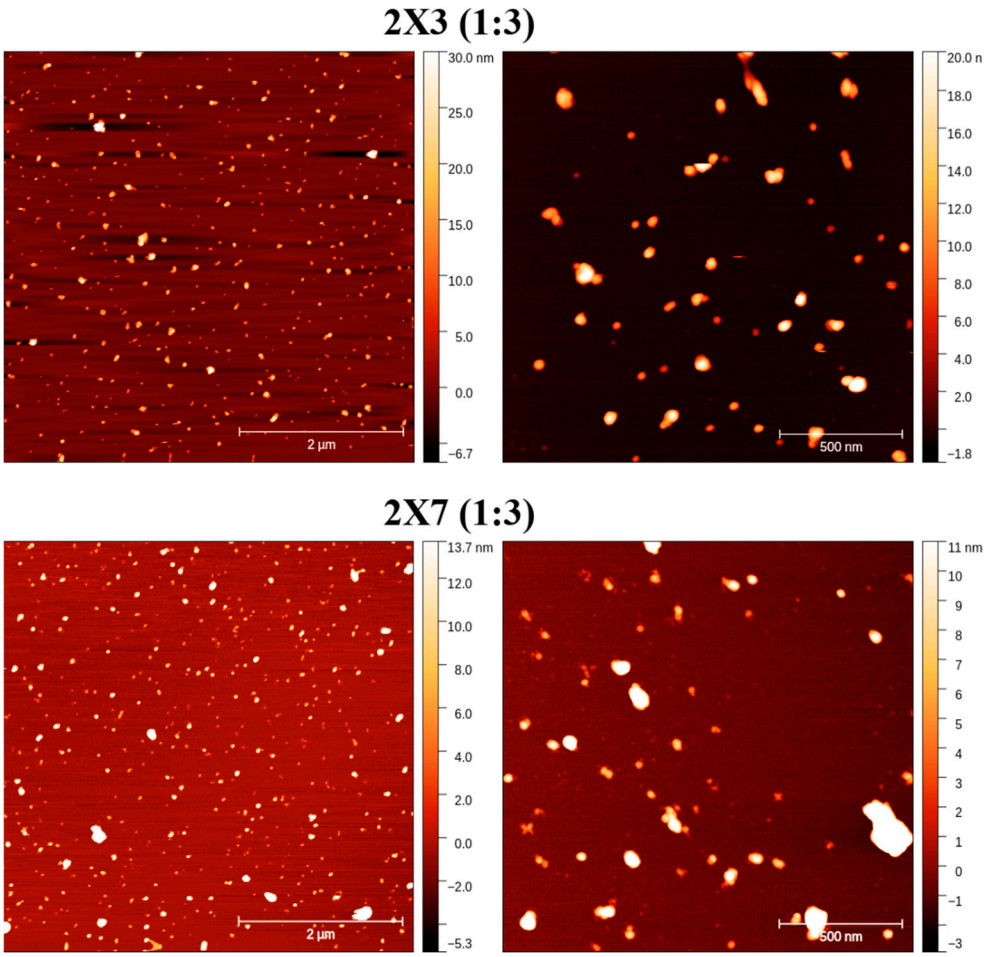
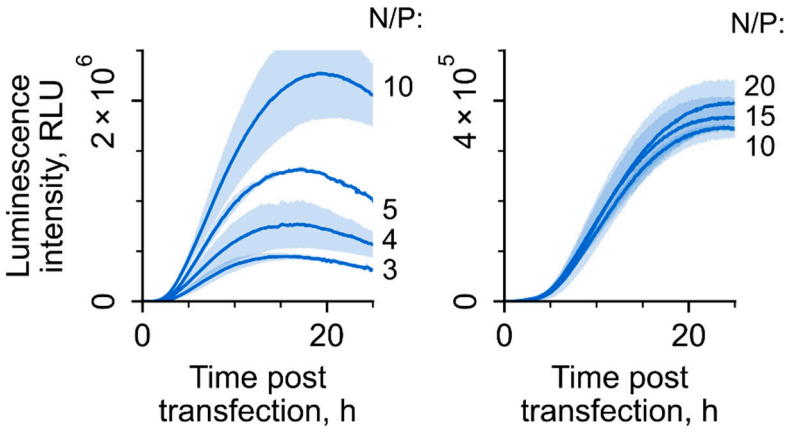
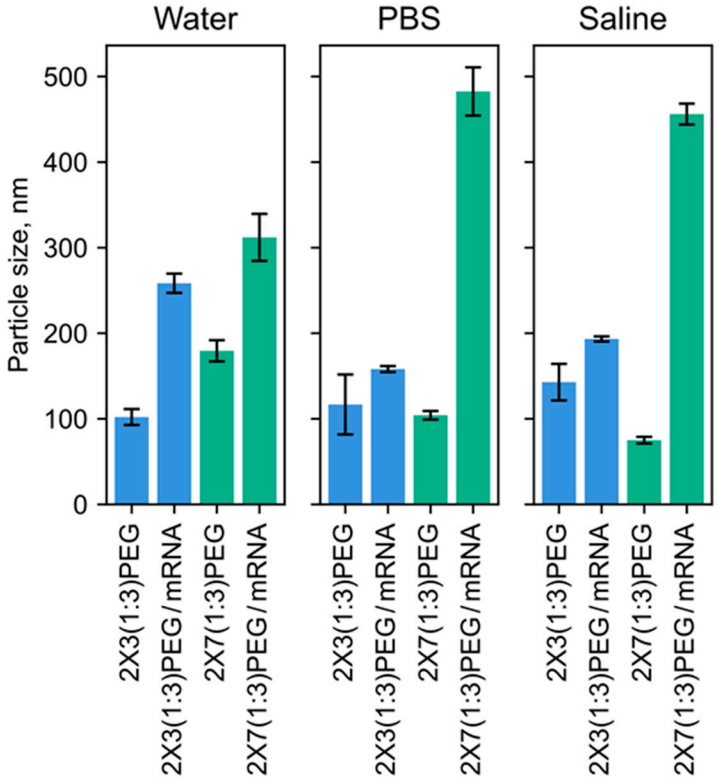


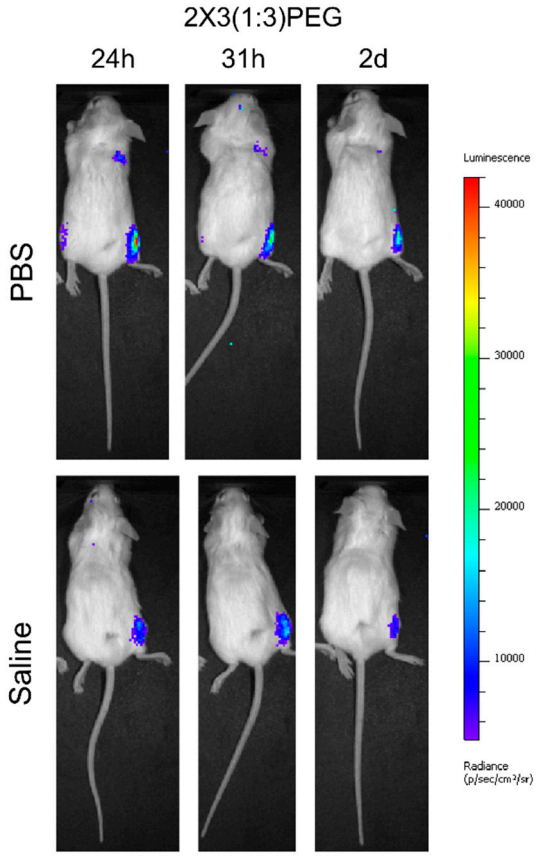
Supplementary Figure S1. Representative AFM images of lipoplexes 2X3(1:3)/mRNA and 2X7(1:3)/mRNA at the N/P ratio of 8/1. The scale bars are 2 µm (left) and 500 µm (right). Pseudo-color rulers reflect the particle height distribution in each sample.



Supplementary Figure S2. Transfection of HEK293T with the Fluc-encoding mRNA using various N/P.



Supplementary Figure S3. The dependence of hydrodynamic diameters of liposomes and their lipoplexes with mKate2 mRNA on the medium. Data are presented as mean±SD.



Supplementary Figure S4. Expression of firefly luciferase in skeletal muscle of mice injected i/m and s/c with complexes of 2X3-DOPE-DSPE-PEG$_{2000}$ with 10 μg Fluc mRNA formed at N/P ratio 6/1 in PBS or Saline with no signal from liver and other organs.