



2022 11 30

内在性脂質運搬機構を利用した
皮膚リンパ管での遺伝子発現制御技術の開発
リンパシステムを標的とした RNA 創薬基盤として期待

LNP

E

RNA

LEC

NanoParticle; LNP) RNA
interference RNA (siRNA)
RNA

(Lipid
small

LNP

E

siRNA

2022 11 23

Journal of Controlled

Release



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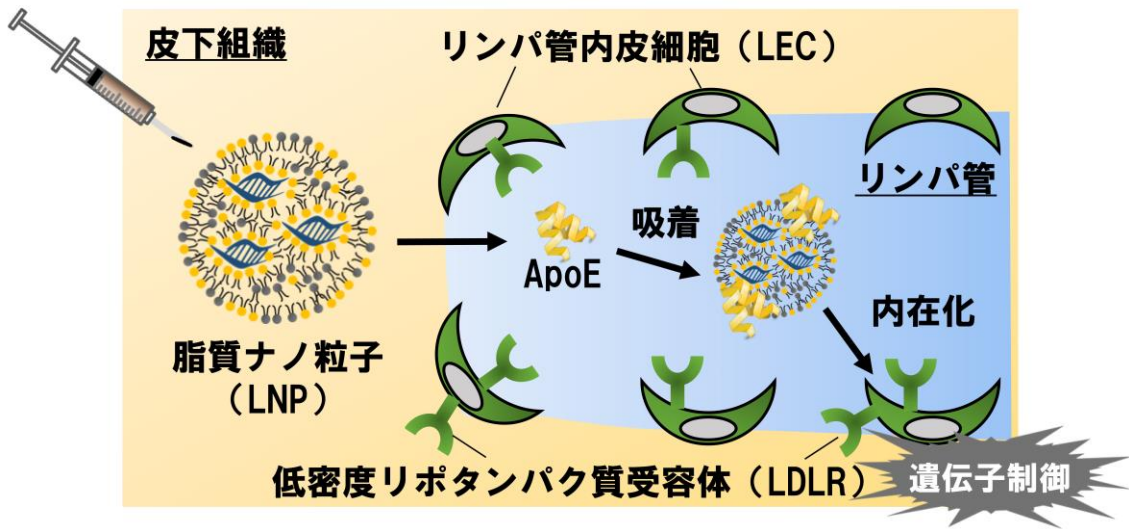
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Milroy Hennekam

RNA

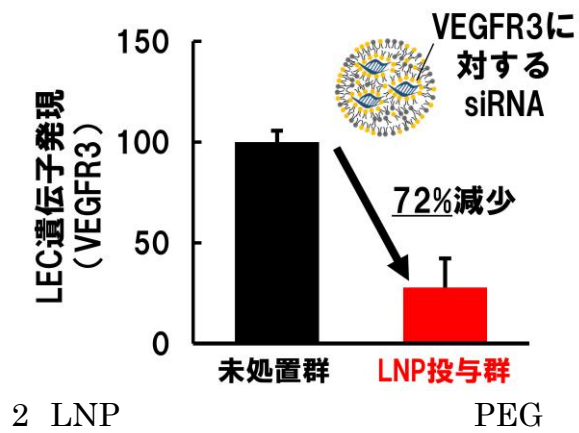
JPMJCR17H1
20K20195

20H00657 21K18320



1

E



2 LNP

PEG

LNP

RNA DNA

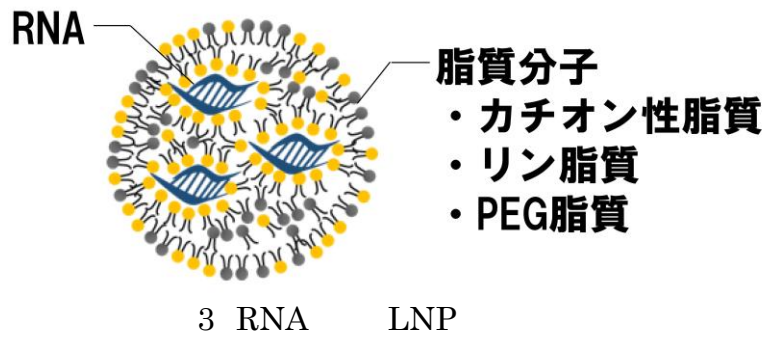
100 nm

3

COVID-19

RNA

LNP



ApoE

E

LEC

2000

LEC

siRNA

RNA

RNA

RNA

RNA

RNA

RNA

2006

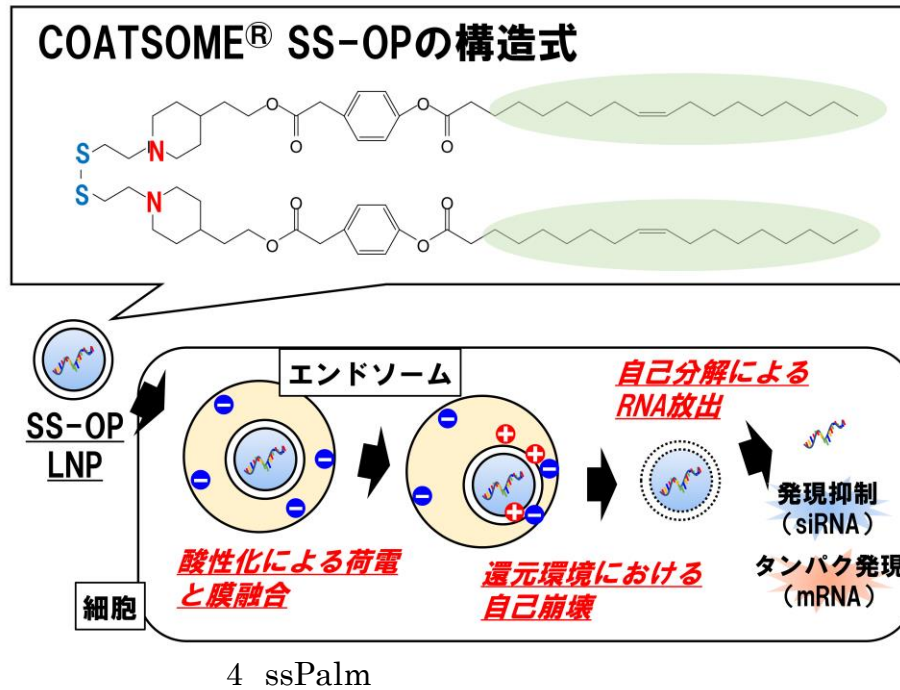
RNA

RNA

ssPalm COATSOME® SS-OP
SS-cleavable pH-activated lipid-like material
RNA

RNA

URL <https://www.yuka-sangyo.co.jp/dds/liposomal.html>



VEGFR3

3

VEGFR3

LEC

LEC

LEC

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siRNA delivery to lymphatic endothelial cells via ApoE-mediated uptake by lipid nanoparticles

E

siRNA

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