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# Journal of Controlled Release Vol. 228, 2016

## **Contents**

## **COVER STORY**

Enhanced antitumor effects of hTRAIL by binding to endogenous albumin

p 206

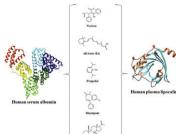
#### **REVIEWS**

Exosomes as the rapeutics: The implications of molecular composition and exosomal heterogeneity  ${\tt Scott}$  W. Ferguson, Juliane Nguyen \* pp 179-190



### Human plasma lipocalins and serum albumin: Plasma alternative carriers?

Alessandra di Masi\*, Viviana Trezza, Loris Leboffe, Paolo Ascenzi



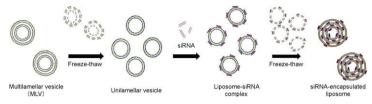
pp 191-205

#### RESEARCH PAPERS

#### One-step encapsulation of siRNA between lipid-layers of multi-layer polycation liposomes by lipoplex freeze-thawing

pp 1-8

Hiroyuki Koide, Ayaka Okamoto, Hiroki Tsuchida, Hidenori Ando, Saki Ariizumi, Chiaki Kiyokawa, Masahiro Hashimoto, Tomohiro Asai, Takehisa Dewa, Naoto Oku \*

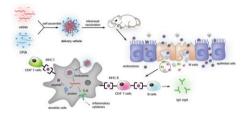


#### Enhanced intranasal delivery of mRNA vaccine by overcoming the nasal epithelial barrier via intra- and paracellular pathways

pp 9-19

Man Li, Mengnan Zhao, Yao Fu, You Li, Tao Gong, Zhirong Zhang, Xun Sun \*

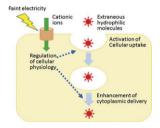
The self-assembled nanocomplex formulated with CP 2k could facilitate the delivery of mRNA vaccine through intracellular and paracellular pathways, and consequently induce both systemic and mucosal immune responses.



# $Faint\ electric\ treatment-induced\ rapid\ and\ efficient\ delivery\ of\ extraneous\ hydrophilic\ molecules\ into\ the\ cytoplasm$

pp 20-25

Mahadi Hasan, Akinori Nishimoto, Takashi Ohgita, Susumu Hama, Hiromu Kashida, Hiroyuki Asanuma, Kentaro Kogure\*

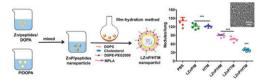


# Lipid-enveloped zinc phosphate hybrid nanoparticles for codelivery of H-2K<sup>b</sup> and H-2D<sup>b</sup>-restricted antigenic peptides and monophosphoryl lipid A to induce antitumor immunity against melanoma

pp 26-37

Xiangting Zhuang, Tingting Wu, Yongdan Zhao, Xiaomeng Hu, Yuling Bao, Yuanyuan Guo, Qingle Song, Gao Li, Songwei Tan, Zhiping Zhang \*

The well-dispersed, organically doped zinc phosphate nanoparticles were prepared through reverse microemulsion combined with film-hydration method. This lipid-coated zinc phosphate hybrid nanoparticles based vaccine exhibit effective antitumor activity.



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