



Journal of Controlled Release Vol. 210, 2015

Contents

COVER STORY

Rational design of agents to transiently increase paracellular permeability

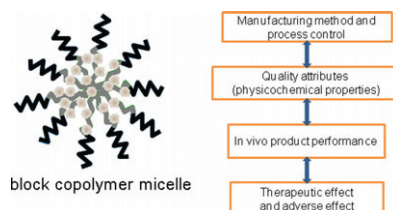
Kinam Park

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REVIEWS

General considerations regarding the in vitro and in vivo properties of block copolymer micelle products and their evaluation pp 76–83

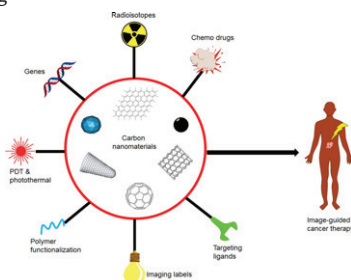
Kumiko Sakai-Kato*, Nobuhiro Nishiyama, Masato Kozaki, Takeshi Nakanishi, Yoshihiro Matsuda, Mai Hirano, Hiroyuki Hanada, Shigeru Hisada, Hiroshi Onodera, Hideyoshi Harashima, Yasuhiro Matsumura, Kazunori Kataoka, Yukihiro Goda, Haruhiro Okuda, Toru Kawanishi



Theranostic applications of carbon nanomaterials in cancer: Focus on imaging and cargo delivery

Daiqin Chen, Casey A. Dougherty, Kaicheng Zhu, Hao Hong*

pp 230–245

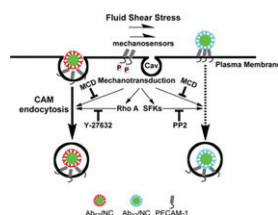


RESEARCH PAPERS

Flow shear stress differentially regulates endothelial uptake of nanocarriers targeted to distinct epitopes of PECAM-1

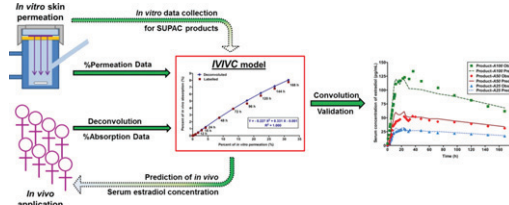
pp 39–47

Jingyan Han, Vladimir V. Shuvaev, Peter F. Davies, David M. Eckmann, Silvia Muro, Vladimir R. Muzykantov*

**Development and validation of *in vitro*–*in vivo* correlation (IVIVC) for estradiol transdermal drug delivery systems**

pp 58–66

Yang Yang, Prashanth Manda, Naresh Pavurala, Mansoor A. Khan, Yellela S.R. Krishnaiah*

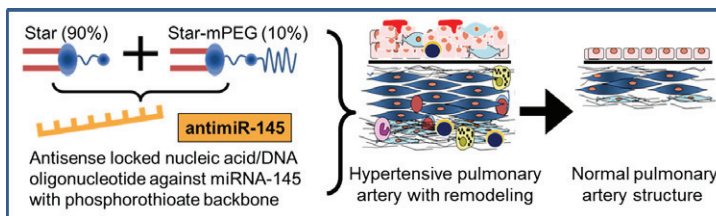


IVIVC was developed and validated for estradiol TDDS (model product). It could predict *in vivo* serum drug concentrations from *in vitro* permeation of the same product with different delivery rates.

Lipid nanoparticle delivery of a microRNA-145 inhibitor improves experimental pulmonary hypertension

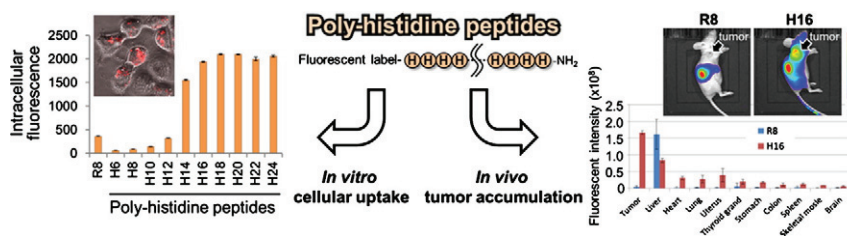
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Jared M. McLendon*, Sachindra R. Joshi, Jeff Sparks, Majed Matar, Jason G. Fewell, Kohtaro Abe, Masahiko Oka, Ivan F. McMurtry, William T. Gerthoffer

**Cellular uptake and *in vivo* distribution of polyhistidine peptides**

pp 115–124

Takashi Iwasaki*, Yoshihisa Tokuda, Ayaka Kotake, Hiroyuki Okada, Shuji Takeda, Tsuyoshi Kawano, Yuji Nakayama



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