



Journal of Controlled Release Vol. 216, 2015

Contents

COVER STORY

Dynamic cell culture model of endothelial cells for simulating *in vivo* nanoparticle uptake

Kinam Park

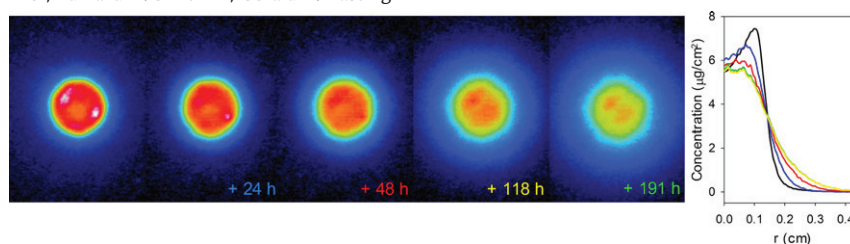
p 169

RESEARCH PAPERS

A quantitative radioluminographic imaging method for evaluating lateral diffusion rates in skin

Allison K. Rush, Matthew A. Miller, Edward D. Smith III, Gerald B. Kasting *

pp 1–8

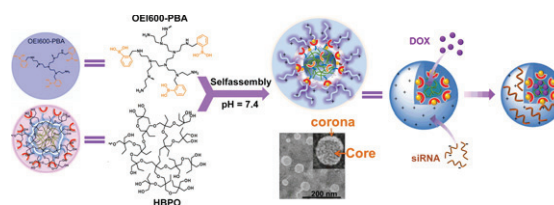


Hyperbranched–hyperbranched polymeric nanoassembly to mediate controllable co-delivery of siRNA and drug for synergistic tumor therapy

Hui-Zhen Jia, Wei Zhang, Jun-Yi Zhu, Bin Yang, Si Chen, Gang Chen, Yi-Fang Zhao *, Jun Feng *, Xian-Zheng Zhang

Hyperbranched–hyperbranched polymeric nanoassembly with pH-dependent stability has been built to realize controlled co-delivery of anticancer drug and siRNA for synergistic tumor therapy.

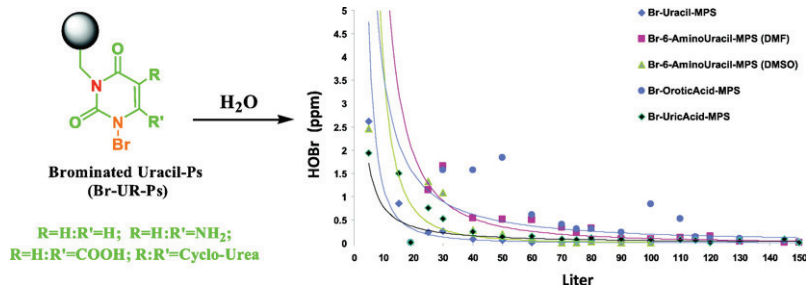
pp 9–17



Antimicrobial *N*-brominated hydantoin and uracil grafted polystyrene beads

pp 18–29

Shady Farah, Oren Aviv, Natalia Laout, Stanislav Ratner, Abraham J. Domb *

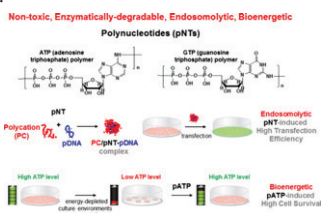


Synthetic polynucleotides as endosomolytic agents and bioenergy sources

pp 30–36

Hana Cho, Young Ju Lee, You Han Bae **, Han Chang Kang *

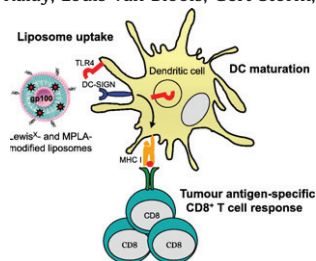
Non-toxic, enzymatically-degradable polynucleotides (pNTs) such as pATP and pGTP were synthesized. Bioenergy-producing pATP reduced a low temperature-induced cellular damage. pNT's endosomolytic activity in pDNA nanocomplexes improved gene expression in the cells cultured at 37 °C as well as 4 °C. Endosomolytic and bioenergetic functions of pNTs would be beneficial in drug delivery.



MPLA incorporation into DC-targeting glycoliposomes favours anti-tumour T cell responses

pp 37–46

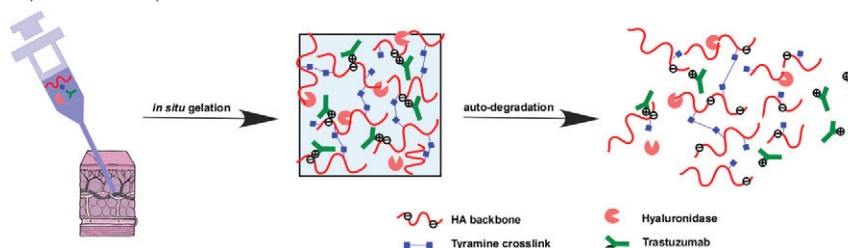
Martine A. Boks, Martino Ambrosini, Sven C. Bruijns, Hakan Kalay, Louis van Bloois, Gert Storm, Juan J. Garcia-Vallejo, Yvette van Kooyk *



Hyaluronidase-incorporated hyaluronic acid–tyramine hydrogels for the sustained release of trastuzumab

pp 47–55

Keming Xu, Fan Lee, Shujun Gao, Min-Han Tan, Motoichi Kurisawa *



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