

Design considerations for the next generation of lipid nanoparticle diagnostic and therapeutics

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Tuesday Sep 17th 2024
at 11h00



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About

Miffy Cheng is currently a postdoctoral fellow in Dr. Pieter Cullis's nanomedicine group and an incoming assistant professor at the Faculty of Pharmaceutical Science at UBC. She completed her PhD on molecular agents for fluorescence-guided surgery at the University of Hull in 2018. Continuing the theme of optical probes for oncology applications, she subsequently joined the Princess Margaret Cancer Research Centre, Toronto, Canada as a Postdoctoral Fellow developing theranostic agents for cancer imaging and therapy. In 2021, Miffy joined the University of British Columbia as a Postdoctoral Fellow to work on lipid nanoparticle and gene delivery technology.

Selected publication include:

Induction of Bleb Structures in Lipid Nanoparticle Formulations of mRNA Leads to Improved Transfection

M. H. Y. Cheng, J. Leung, Y. Zhang, C. Strong, G. Basha, A. Momeni, Y. Chen, E. Jan, A. Abdolazadeh, X. Wang, J. A. Kulkarni, D. Witzigmann, P. R. Cullis, *Adv. Mater.* 2023, 2303370.

Targeted Theranostic ^{111}In /Lu-Nanotexaphyrin for SPECT Imaging and Photodynamic Therapy

M. H. Y. Cheng, M. Overchuk, M. A. Rajora, J. W. H. Lou, Y. Chen, M. G. Pomper, J. Chen, G. Zheng, *Mol Pharm.* 2022, 19, 1803–1813



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