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Education

12/2012	PhD with honor	Pharmaceutical Sciences Thesis Advisor: Dr. Leaf Huang	University of North Carolina at Chapel Hill Chapel Hill, NC
7/2008	MS	Pharmaceutics	Peking University Beijing, China
7/2006	BS	Pharmaceutical Sciences	Peking University Beijing, China

Research Experience

2013- present	Postdoctoral Fellow	Protein-polymer Conjugates with Improved Pharmacokinetics and Stability PI: Dr. Heather Maynard	University of California, Los Angeles The California NanoSystems Institute
2008-2013	Research Assistant	Pharmacokinetics and Biodistribution of Nanoparticles for Rational Formulation Design PI: Dr. Leaf Huang	University of North Carolina at Chapel Hill Eshelman School of Pharmacy
2005-2008	Research Assistant	Combination Chemotherapy using Liposomal Delivery Systems PI: Dr. Wanliang Lu	Peking University, School of Pharmaceutical Sciences

Teaching Experiences

2014-2015	Review Committee	Undergraduate Research Scholarship Program	University of California, Los Angeles
2008-2010	Teaching Assistant	Pharm.D. courses <i>Pharmaceutical Compound Lab,</i> <i>Drug Literature Analysis and</i> <i>Interpretation</i>	University of North Carolina at Chapel Hill Eshelman School of Pharmacy

Publications

1. **Liu Y**, Hu Y, Huang L. Influence of Polyethylene Glycol Density and Surface Lipid on Pharmacokinetics and Biodistribution of LCP Nanoparticles. *Biomaterials*, 2014;35(9):3027-34
2. **Liu Y**, Tseng YC, Huang L. Biodistribution studies of nanoparticles using fluorescent imaging: A

- qualitative or quantitative method? *Pharm Res.* 2012;29(12):3273-7.
3. Huang L, **Liu Y**. In vivo delivery of RNAi with lipid-based nanoparticles. *Annu Rev Biomed Eng.* 2011;13:507-30.
 4. **Liu Y**, Huang L, Liu F. Paclitaxel nanocrystals for overcoming multidrug resistance in cancer. *Mol Pharm.* 2010;7(3):863-9.
 5. **Liu Y**, Huang L. Designer lipids advance systemic siRNA delivery. *Mol Ther.* 2010;18(4):669-70.
 6. Liu F, Park JY, Zhang Y, Conwell C, **Liu Y**, Bathula SR, Huang L. Targeted cancer therapy with novel high drug-loading nanocrystals. *J Pharm Sci.* 2010;99(8):3542-51.
 7. Dong X, Mattingly CA, Tseng MT, Cho MJ, **Liu Y**, Adams VR, Mumper RJ. Doxorubicin and Paclitaxel-loaded Lipid-based Nanoparticles Overcome Multi-Drug Resistance by Inhibiting P-gp and Depleting ATP. *Cancer Res.* 2009;69(9):3918-26.
 8. Du J, Lu WL, Ying X, **Liu Y**, Du P, Tian W, Men Y, Guo J, Zhang Y, Li RJ, Zhou J, Lou JN, Wang JC, Zhang X, Zhang Q. Dual-targeting topotecan liposomes modified with tamoxifen and wheat germ agglutinin significantly improve drug transport across the blood-brain barrier and survival of brain tumor-bearing animals. *Mol Pharm.* 2009;6(3):905-17.
 9. **Liu Y**, Lu WL, Guo J, Du J, Li T, Wu JW, Wang GL, Wang JC, Zhang X, Zhang Q. A potential target associated with both cancer and cancer stem cells: a combination therapy for eradication of breast cancer using vinorelbine stealthy liposomes plus parthenolide stealthy liposomes. *J Control Release.* 2008;129(1):18-25.
 10. Guo RR, **Liu Y**, Lu WL, Zhao JH, Wang XQ, Zhang H, Wang JC, Zhang X, Zhang Q. Effect of recombinant hirudin plus stealthy liposomal vinblastine on the growth and metastasis of melanoma. *Biol Pharm Bull.* 2008;31(4):696-702.
 11. Li X, Ruan GR, Lu WL, Hong HY, Liang GW, Zhang YT, **Liu Y**, Long C, Ma X, Yuan L, Wang JC, Zhang X, Zhang Q. A novel stealth liposomal topotecan with amlodipine: apoptotic effect is associated with deletion of intracellular Ca^{2+} by amlodipine thus leading to an enhanced antitumor activity in leukemia. *J Control Release.* 2006;112(2):186-98.
 12. Li X, Lu WL, Liang GW, Ruan GR, Hong HY, Long C, Zhang YT, **Liu Y**, Wang JC, Zhang X, Zhang Q. Effect of stealthy liposomal topotecan plus amlodipine on the multidrug-resistant leukaemia cells in vitro and xenograft in mice. *Eur J Clin Invest.* 2006;36(6):409-18.

Professional Activities

Editor *Medicine*

Reviewer *ACS Nano, Colloids and Surfaces B, Current Cancer Drug Targets, Expert Opinion on Drug Delivery, International Journal of Nanomedicine, Journal of Pharmaceutical Sciences, Molecular Pharmaceutics*