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	Tel: (1)-217-819-1912			
	Current address: 3112 Micro and Nanotechnology Laboratory, 208 N Wright St, Urbana,			
	IL 61801,US			
Ed	lucation Experiences			
•	University of Illinois at Urbana-Champaign, US	01/2016 to present		
	Postdoctoral Research Associate, Department of Bioengineering			
	Research advisor: Professor. Andrew M Smith			
•	University of Illinois at Urbana-Champaign, US	11/2013 to 12/2015		
	Postdoctoral Research Assistant, Department of Materials Science and	Engineering		
	Research advisor: Professor. Jianjun Cheng			
•	Fudan University, China	09/2008 to 07/2013		
	Ph. D. in Pharmaceutics at School of Pharmacy			
	Dissertation title: "Brain-targeted drug delivery system based on cationic	c dendritic polymers"		
	Thesis advisor: Professor. Chen Jiang			
•	Fudan University, China	09/2004 to 06/2008		
	B.S. at School of Pharmacy			
	GPA: 3.77 (scale 4.0) Rank: 1 out of 110			
Research Experiences				
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•	Research on quantitative single mRNA molecules analysis in prost	ate cancer (UIUC)		
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Development of Parkinson's disease rat model



Evaluation of Pharmacodynamics after stem cells implantation in brain by multiple strategies

#### **Research Skills**

## Sophisticated experimental skills in applied biology and pharmaceutics including 9 years' experience on cell culture and animal handling:

cell culture, *in vitro* BBB modeling, *in vitro* tumor spheroids modeling, BBB transportation evaluation, drug formulation, gene transfection/knock-down, western blot, ELISA, RT-PCR, single molecule RNA-FISH, UV and fluorescence analysis, flow cytometry, confocal microscope, MTT assay, animal modeling (xenografts/in situ tumor model, Parkinson's disease model and transgenic Alzheimer's disease model), in vivo distribution imaging, pharmacokinetic evaluation, i.v./i.p./intranasal/intracranial administration, frozen sections, immunohistochemistry sections, Matlab, etc.

#### **Publications and Patents**

#### https://scholar.google.com/citations?user=bih9IIwAAAAJ&hl=zh-CN

- Liu Y, An S, Li J, Kuang Y, He X, Guo Y, Ma H, Zhang Y, Ji B, Jiang C. Brain-targeted co-delivery of therapeutic gene and peptide by a multifunctional drug delivery platform in Alzheimer's disease mice. **Biomaterials. 2016,** 80, 33-45.
- Liu Y, Li J, Huang R, Ye L, Lou J, Jiang C. A leptin derived 30-amino-acid peptide modified pegylated poly-L-lysine dendrigraft for brain targeted gene delivery. **Biomaterials**. 2010, 31:5246-5257.
- Liu Y, Huang R, Ke W, Jiang C. Brain-targeting gene delivery and cellular internalization mechanisms for modified rabies virus glycoprotein RVG29 nanoparticles. Biomaterials. 2009, 30:4195-4202.
- Liu Y, Hu Y, Ma H, Guo Y, Li J, Jiang C. Targeted imaging of activated caspase-3 in the central nervous system by a dual functional nanodevice. J Control Release. 2012, 163:203-210.
- Liu Y, He X, Kuang Y, An S, Wang C, Guo Y, Ma H, Lou J, Jiang C. A bacteria deriving peptide modified dendrigraft poly-L-Lysines (DGLs) self-assembling nano-platform for targeted gene delivery. **Mol Pharm. 2014,** 11:3330-3341.
- Liu Y, Guo Y, An S, Ma H, He X, Jiang C. Targeting caspase-3 as dual therapeutic benefits by RNAi facilitating brain-targeted nanoparticles in a rat model of Parkinson's disease. Plos One. 2013, 8:62905.
- Liu Y, Huang R, Jiang C. Non-viral gene delivery and therapeutics targeting to brain. Curr Nanosci. 2011, 7:55-70.
- Zheng N, Song Z, Liu Y, Yin L, Cheng J. Gene delivery into isolated Arabidopsis thaliana protoplasts and intact leaves using cationic, α-helical polypeptide. Frontiers of Chemical Science and Engineering 2017, 1-8.
- [Book chapter] Zheng N, Liu Y, Cheng J. Gene Delivery Method Using Photo-Responsive Poly (β-Amino Ester) as Vectors. Non-Viral Gene Delivery Vectors: Methods and Protocols 2016, 259-267.
- Wang H, Tang L, Liu Y, Dobrucka IT, Dobrucki LW, Yin LC, Cheng J. In Vivo Targeting of Metabolically Labeled Cancers with Ultra-Small Silica Nanoconjugates. Theranostics 2016, 6 (9): 1467.
- Li Y, Bai Y, Zheng N, Liu Y, Vincil GA, Pedretti BJ, Cheng J. Crosslinked dendronized polyols as



a general approach to brighter and more stable fluorophores. **Chemical Communications 2016**, 52 (19):3781-3784

- Huang S, Shao K, Liu Y, Kuang YY, Li JF, Guo YB, Ma HJ, Jiang C. Tumor-Targeting and microenvironment-responsive smart nanoparticles for combination therapy of antiangiogenesis and apoptosis. ACS Nano. 2013, 7: 2860-2871.
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- Huang R, Ke W, Liu Y, Jiang C, Pei Y. The use of lactoferrin as a ligand for targeting the polyamidoamine-based gene delivery system to the brain. **Biomaterials 2008**, 29 (2), 238-246
- Huang R, Ke W, Han L, Liu Y, Jiang C, Pei Y. Lactoferrin-modified nanoparticles could mediate efficient gene delivery to the brain in vivo. Brain Research Bulletin 2010, 81 (6), 600-604
- Huang R, Ke W, Han L, Liu Y, Ye L, Lou J, Jiang C, Pei Y. Brain-targeting mechanisms of lactoferrin-modified DNA-loaded nanoparticles Journal of Cerebral Blood Flow & Metabolism 2009, 29 (12), 1914-1923
- Huang R, Liu S, Shao K, Han L, Ke W, Liu Y, Li J, Huang S, Jiang C. Evaluation and mechanism studies of PEGylated dendrigraft poly-L-lysines as novel gene delivery vectors. Nanotechnology 2010, 21 (26), 265101
- Huang R, Ma H, Guo Y, Liu S, Kuang Y, Shao K, Li J, Liu Y, Han L, Jiang C. Angiopep-conjugated nanoparticles for targeted long-term gene therapy of Parkinson's disease. Pharmaceutical Research 2013, 30 (10), 2549-2559
- Li J, Huang S, Shao K, Liu Y, An S, Kuang Y, Guo Y, Ma H, Wang X, Jiang C. A choline derivate-modified nanoprobe for glioma diagnosis using MRI. Scientific Reports 2013, 3, 1623
- Kuang Y, An S, Guo Y, Huang S, Shao K, Liu Y, Li J, Ma H, Jiang C. T7 peptide-functionalized nanoparticles utilizing RNA interference for glioma dual targeting. International Journal of Pharmaceutics 2013, 454 (1), 11-20
- Zheng N, Song Z, Liu Y, Zhang R, Yao C, Uckun FM, Yin L, Cheng J. Redox-responsive, reversibly-crosslinked thiolated cationic helical polypeptides for efficient siRNA encapsulation and delivery. J Controlled Release, 2015, 205, 231-239
- Wang H, Wang R, Cai K, He H, Liu Y, Yen J, Wang Z, Xu M, Sun Y, Zhou X, Yin Q, Tang L, Dobrucka IT, Cheng J, et al. Selective in vivo metabolic cell labeling mediated cancer targeting. Nature Chemical Biology 2016, accepted
- Liu Y, Jiang C. Research advances in brain-targeted nanoscale drug delivery system. Yao Xue Xue Bao, **2013**, 48:1532-1543. <Article in Chinese>
- COMPOSITIONS AND METHODS FOR IN VIVO DETECTION OF AMYLOID β. Cheng J, Cai K, Liu Y. 2016, US Patent in application.
- [Book chapter] Jiang C, Jiang X, Liu Y, Shao K, Huang R. Microspheres for targeting delivery to brain. Microspheres and Microcapsules in Biotechnology: Design, Preparation and Applications, 2013, 399-464.
- Huang R, Ke W, Liu Y, Wu D, Feng L, Jiang C, Pei Y. Gene therapy using lactoferrin-modified nanoparticles in a rotenone-induced chronic Parkinson model. Journal of the Neurological Science 2010, 290, 123-130.
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microenvironment-responsive nanoparticles for gene delivery. **Biomaterials, 2013**, 34, 5294-5302.

- Li J, Zhou L, Ye D, Huang S, Shao K, Huang R, Han L, Liu Y, Liu S, Ye L, Lou J, Jiang C. Choline-derivate-modified nanoparticles for brain-targeting gene delivery. Advanced Materials, 2011, 23, 4516-4520.
- Zheng N, Song Z, Liu Y, Cheng J, Yin L. Manipulating the Membrane Penetration Mechanism of Helical Polypeptides via Aromatic Modification for Efficient Gene Delivery. Acta Biomaterialia, 2017, 58, 146-157.

#### Manuscripts in Preparation

- Liu Y, Cheng J, et al. Systemic siRNA Delivery to Tumor by Cell-Penetrating Peptide and Poly(L-glutamic acid)-Based Metastable Nanoparticles. *To be submitted*
- Liu Y, Cheng J, et al. In vivo Aβ imaging via two-step click chemistry. Submitted
- Liu Y, Cheng J, et al. Cell-penetrating polypeptides mediated brain-targeted gene delivery through intranasal administration. *In preparation*

#### **Reviewer of Journals**

International Journal of Nanomedicine (Consulting Editor)

ACS Nano; Oncotarget; Journal of Biomaterials Science: Polymer Edition; Pharmaceutical Nanotechnology; Journal of Drug Targeting; Drug Design, Development and Therapy; Journal of Colloid and Interface Science

#### **Conferences and Presentations**

- Liu Y, et al. "Brain-targeted co-delivery of therapeutic gene drugs and peptide by multifunctional drug delivery nanoparticles in Alzheimer's disease mice", oral presentation as contributed speaker at The 10<sup>th</sup> Anniversary of the Lindau-Program of the Sino-German Center for Research Promotion, Beijing, China, 2014
- Liu Y, et al. "Brain-targeted imaging of activated caspase-3 in vivo by a dual functional nano-device", oral presentation as contributed speaker at The 61st Meeting of the Nobel Laureates in Lindau, Germany, 2011
- Liu Y, et al. "Non-viral gene delivery system and its application to brain diseases", oral presentation as contributed speaker at Dutch Life Science Week Gene Therapy Seminar, Shanghai EXPO, China, 2010
- Liu Y, et al. "Quantum dot-FISH for measuring PTEN mRNA mutations in prostate cancer biopsies", poster presentation at Individualizing Medicine Conference in Rochester, US, 2016
- Liu Y, et al. "Detecting MicroRNA in Dried Blood Spots for Real-time Monitoring of Treatment Response in Prostate Cancer", poster presentation at Biomedical Engineering Society Annual Conference in Minneapolis, US, 2016
- Liu Y, et al. "Tumor microenvironment de-coating nanoparticles for efficient siRNA delivery based on cationic helical polypeptides", poster presentation at Peck Symposium, Purdue University, US, 2015
- Liu Y, et al. "Targeting caspase-3 as dual therapeutic benefits by RNAi facilitating brain-targeted nanoparticles in a rat model of Parkinson's disease", poster presentation at Miami Winter Symposium on nanotechnology in Miami, US, 2012
- Liu Y, et al. "RVG peptide modified brain-targeted gene delivery system", poster presentation at 5<sup>th</sup> AAPS@Asia Symposium in Shanghai, China, 2010



Honors and Awards				
Year	Name	Source		
2013	Excellent Graduate of Shanghai higher education institutes	Bureau of Education, Shanghai, China		
2012	National scholarship for graduates (top 3% students)	Fudan University		
2011	Nature and Science Award, 1 <sup>st</sup> Prize,	Ministry of Education, China		
2010	Young Scholar Award for doctoral candidates	Ministry of Education, China		
2009	Shengda Scholarship	Fudan University		
	Excellent doctor student scholarship (1 <sup>st</sup> award)	Fudan University		
2008	Guanghua Scholarship (1 <sup>st</sup> award)	Fudan University		
2008	Excellent Graduate of Shanghai higher education institutes	Bureau of Education, Shanghai, China		
2007	Renmin Scholarship (1 <sup>st</sup> award); Fuhua Scholarship	Fudan University		
2006	Dongshidongfang Scholarship (1 <sup>st</sup> award);	Fudan University		
	Excellent Students	Fudan University		
2005	China Petroleum Scholarship (1 <sup>st</sup> award);	Fudan University		
	Excellent Students	Fudan University		