In vitro and in vivo delivery of functionalized nanoparticles via coiled-coil interactions

Yang, J.

Appendices

Author affiliations

Andreas Herrmanna Zernike Institute for Advanced Materials, University of Groningen, Nijenborgh 4, Groningen, The Netherlands; W.J. Kolff Institute for Biomedical Engineering and Materials Science, University Medical Center Groningen, Antonius Deusinglaan 1, Groningen, Netherlands

Alexander Kros Department of Supramolecular Chemistry & Biomaterials, Leiden Institute of Chemistry, Leiden University, Leiden, The Netherlands

Azadeh Bahreman Department of Supramolecular Chemistry & Biomaterials, Leiden Institute of Chemistry, Leiden University, Leiden, The Netherlands

Agnieszka Gruszkaa Zernike Institute for Advanced Materials, University of Groningen, Nijenborgh 4, Groningen, The Netherlands

Ewa Snaar-Jagalska Institute of Biology, Leiden University, Leiden, The Netherlands

Gerda E. M. Lamers Institute of Biology, Leiden University, Sylviusweg 72, Leiden, The Netherlands

Author affiliations

Herman P. Spaink	Institute of Biology, Leiden University, Leiden, The Netherlands
Jing Tu	Department of Supramolecular Chemistry & Biomaterials, Leiden Institute of Chemistry, Leiden University, Leiden, The Netherlands
Zhuojun Meng	Zernike Institute for Advanced Materials, University of Groningen, Nijenborgh 4, Groningen, The Netherlands
Qing Liu	Zernike Institute for Advanced Materials, University of Groningen, Nijenborgh 4, Groningen, The Netherlands
Jan Willem de Vriesa	Zernike Institute for Advanced Materials, University of Groningen, Nijenborgh 4, Groningen, The Netherlands
René C. L. Olsthoorn	Department of Supramolecular Chemistry & Biomaterials, Leiden Institute of Chemistry, Leiden University, Leiden, The Netherland
Yasuhito Shimada	Institute of Biology, Leiden University, Leiden, The Netherlands; Department of Molecular and Cellular Pharmacology, Pharmacogenomics and Pharmacoinformatics, Mie University Graduate School of Medicine, Mie, Japan

Bart J. Crielaarda Zernike Institute for Advanced Materials, University of Groningen, Nijenborgh 4, Groningen, The Netherlands; W.J. Kolff Institute for Biomedical Engineering and Materials Science, University Medical Center Groningen, Antonius Deusinglaan 1, Groningen, Netherlands

Alberto Rodríguez-Pulidoa Zernike Institute for Advanced Materials, University of Groningen, Nijenborgh 4, Groningen, The Netherlands

List Publications

(1) **Yang, J.**, ‡ Bahreman, A., ‡ Daudey, G., Bussmann, J., Olsthoorn, R.C.L., Kros, A. , Drug delivery via cell membrane fusion using lipopeptide modified liposomes, *ACS Cent.Sci.* **2016***, 2, 621–630.* DOI: 10.1021/acscentsci.6b00172

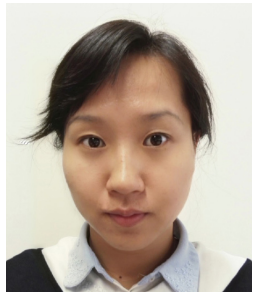
(2) **Yang, J.**, ‡ Shimada, Y.,‡ Olsthoorn, R.C.L., Ewa Snaar-Jagalska, B., Spaink, H.P., Kros, A. , Application of coiled coil peptides in liposomal anti-cancer drug delivery using a zebrafish xenograft model, *ACS Nano.* **2016***, 10, 7428–7435.* DOI: 10.1021/acsnano.6b01410

(3) Schwenen, L.L.G., Hubrich, R., Milovanovic, D., Geil, B., **Yang, J.**, Kros, A., Jahn, R., Steinem, C. , Resolving single membrane fusion events on planar pore-spanning membranes, *Sci. Rep.,* **2015***, 5, 12006.* DOI: doi:10.1038/srep12006

(4) Meng, Z.J.;‡ **Yang, J.**,‡ Liu. Q., Vries, J. W., Rodríguez-Pulido, A.,Crielaard, B., Kros, A.,* Herrmann, A. * Lipid-DNA induced fusion of phospholipid vesicles, submitted.

(5) **Yang, J.**,‡ Tu, J., ‡ Lamers, G. E. M., Olsthoorn, R.C.L.,* Kros, A.* Coiled-coil forming peptides enhance intracellular delivery of lipid bilayer coated mesoporous silica nanoparticles, submitted.

Curriculum Vitae



Jian Yang was born on September 20, 1987 in Huangshi, Hubei, P.R. China. She attened the Ezhou Senior High School, where she obtained her high school diploma in 2004. In the same year she started her study program of Biotechnology in Hubei Normal Univerisity and obtained her BSc degree in 2008. Next, she stuided Life Science & Technology, both at the NanKai university and Tianjin International Biology Medicine United Academe. During the master program, she specialized in Functional Proteomics, with a focus on lead-drug screening supervised by Prof. Zihe Rao and Prof. Cheng Yang. She also did the internship in Institue of Biophysics, Chinese Academy of Sciences on *Improved Pooled ORF Expression Technology* supervised by Prof. dr. Ouyang songying and Prof. Zhijie Liu.

Jian obtained her Master's degree in 2012. With interests in scientific reasearch, Jian started her PhD training in September 2012, described in this thesis, under supervision of Prof. Alexander Kros and Dr. René C.L.Olsthoorn in the Department of Supramolecular & Biomaterials Chemistry. She applied membrane fusion system using lipopeptides in the field of drug delivery. From October 2016, Jian continues her research into membrane fusion system as a post-doctoral-reasearcher in the same research group, and hopes to successfully publish more membrane fusion-related resources and methodologies in the future.