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Liposome interactions with biological systems: a journey into cells

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List of publications

- 1. <u>Yang KN</u>, Mesquita B, Horvatovich P, Salvati A. *Tuning Liposome Composition to Modulate Corona Formation in Human Serum and Cellular Uptake*. **Acta Biomater.**, 2020, 106, 314-327.
- 2. Francia V, <u>Yang KN</u>, Deville S, Reker-Smit C, Nelissen I, Salvati A. *Corona Composition Can Affect the Mechanisms Cells Use to Internalize Nanoparticles*. *ACS Nano*, 2019, 13, 11107-11121.
- 3. Zhao X¹, <u>Yang KN¹</u>, Zhao RF, Ji TJ, Wang XC, Yang X, Zhang YL, Cheng KM, Liu SL, Hao JH, Ren H, Leong KW, Nie GJ. *Inducing Enhanced Immunogenic Cell Death with Nanocarrier-based Drug Delivery Systems for Pancreatic Cancer Therapy*. *Biomaterials*, 2016, 102, 187-197. (¹ equal contribution)
- 4. Deng H, Zhao XF, He DX, Guo WS, <u>Yang KN</u>, Dong AJ, Liang XJ. One-Step Gene Delivery into the Cytoplasm in A Fusion-Dependent Manner Based on A New Membrane Fusogenic Lipid. Chem. Commun., 2016, 52, 7406-7408.
- 5. Zhuang XX, Ma XW, Xue XD, Jiang Q, Song LL, Dai LR, Zhang CQ, Jin SB, <u>Yang KN</u>, Ding BQ, Wang PC, Laing XJ. *A Photosensitizer-Loaded DNA Origami Nanosystem for Photodynamic Therapy*. *ACS Nano*, 2016, 10, 3486-3495.
- 6. Chen SZ¹, <u>Yang KN¹</u>, Tuguntaev RG, Mozhi A, Zhang JC, Wang PC, Liang XJ. *Targeting Tumor Microenvironment with PEG-Based Amphiphilic Nanoparticles to Overcome Chemoresistance*. *Nanomedicine*: *NBM*, 2016, 12, 269-286. (¹ equal contribution)
- 7. <u>Yang KN¹</u>, Li SL¹, Jin SB, Xue XD, Zhang TB, Zhang CQ, Xu J, Liang XJ. *Micelle-like luminescent nanoparticles as a visible gene delivery system with reduced toxicity. J. Mater. <i>Chem. B*, 2015, 3, 8394-8400. (¹ equal contribution)
- 8. Xue XD, Jin SB, Zhang CQ, <u>Yang KN</u>, Huo SD, Chen F, Zou GZ, Liang XJ. *Probe-Inspired Nano-Prodrug with Dual-Color Fluorogenic Property Reveals Spatiotemporal Drug Release in Living Cells. ACS Nano*, 2015, 9, 2729-2739.
- 9. Zhang CQ, Li YW, Xue XD, Chu PF, Liu C, <u>Yang KN</u>, Jiang YG, Chen WQ, Zou GZ, Liang XJ. *A Smart pH-Switchable Luminescent Hydrogel. Chem. Commun.*, 2015, 51, 4168-4171.
- 10. Zhang CQ, Xue XD, Li YW, Luo Q, <u>Yang KN</u>, Zhuang XX, Jiang YG, Zhang JC, Liu JQ, Zou GZ, Liang XJ. Self-Assembled Peptide Nanofibers Designed as Biological Enzymes for Catalyzing Ester Hydrolysis. ACS Nano, 2014, 8, 11715-11723.

- 11. Zhang CQ, Jin SB, <u>Yang KN</u>, Xue XD, Li ZP, Jiang YG, Chen WQ, Dai LR, Zou GZ, Liang XJ. A Cell Membrane Tracker Based on Restriction of Intramolecular Rotation. ACS Appl. Mater. Interfaces, 2014, 6, 8971-8975.
- 12. Huo SD, Jin SB, Ma XW, Xue XD, <u>Yang KN</u>, Kumar A., Wang P.C., Zhang JC, Hu ZB, Liang XJ. *Ultra-Small Gold Nanoparticles as Carriers for Nucleus-Based Gene Therapy Due to Size-Dependent Nuclear Entry. ACS Nano*, 2014, 8, 5852-5862.
- 13. <u>Yang KN</u>, Zhang CQ, Wang W, Wang PC, Zhou JP, Liang XJ. *pH-Responsive Mesoporous Silica Nanoparticles Employed in Controlled Drug Delivery Systems for Cancer Treatment. Cancer Biol. Med.*, 2014, 11, 34-43.

Manuscripts submitted or in preparation

- 1. <u>Keni Yang</u>, Anna Salvati. *Effects of Protein Source on Liposome Uptake by Cells: Corona Composition and Impact of the Excess Free Proteins*. (Submitted)
- 2. Daphne Montizaan¹, <u>Keni Yang¹</u>, Catharina Reker-Smit, Anna Salvati. *Comparison of the Uptake Mechanisms of Zwitterionic and Negatively Charged Liposomes by HeLa Cells*. (¹ equal contribution, submitted)
- 3. <u>Keni Yang</u>, Karolina Tran, Anna Salvati. *Tuning Liposome Stability in Biological Environments and Intracellular Drug Release Kinetics*. (In preparation)
- 4. <u>Keni Yang</u>, Jan Jacob Schuringa, Anna Salvati. *Cell Membrane Nanoparticles to Probe the Interactions between Stromal and Cancer Cells in Acute Myeloid Leukemia*. (In preparation)
- 5. Chunqiu Zhang¹, <u>Keni Yang¹</u>, Yi-Feng Wang¹, Xing-Jie Liang. *Engineering a RIR* (restriction of intermolecular rotation) Probe Labeled Liposome for Monitoring the Transmemberane Transport of Nanovehicles. (¹ equal contribution, in preparation)

Conferences attendance and presentations

- 2019 International Conference On Nanomedicine And Nanobiotechnology-ICONAN 2019, Munich, Germany (Oral presentation)
- 2019 The 2019 Controlled Release Society Annual Meeting & Exposition, Valencia, Spain (Poster presentation, nominated as great scientific communication poster)
- 2018 Annual Pharmacy Day of GRIP Institute, Groningen, the Netherlands (Oral presentation)
- 2017 7th International Conference on Nanoscience and Technology, China 2017 (ChinaNANO 2017),Beijing, China (Poster presentation)
- 2017 10th European and Global Conference and Exhibition for Clinical Nanomedicine & Targeted Medicine, CLINAM 2017,Basel, Switzerland (Oral presentation in a small speech session and poster presentation)
- 2017 18th Kolff Conference, Schiermonnikoog, the Netherlands (Oral Presentation)
- 2016 NWO CHAINS 2016: Annual Dutch Chemistry Conference, Veldhoven, the Netherlands (Poster presentation)