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Ansioluettelo

Dr. Shiqi Wang is a Docent (Adjunct Professor) and Principal Investigator at the Faculty of Pharmacy, University of Helsinki. Her research focuses on the **fundamental understanding and development of nanoparticles for intracellular drug delivery** (<http://www.helsinki.fi/intracellular-drug-delivery>).

Short Biography

Dr. Wang obtained her BSc and MSc in chemistry from the Department of Chemistry Tsinghua University (China). In 2018, she obtained her PhD from Imperial College London (UK) with exceptional merits, and then joined the University of Helsinki, Faculty of Pharmacy as a Postdoctoral Fellow in Prof. Hélder Santos' group. In 2022, Dr. Wang got the Title of Docent in Pharmaceutical Nanotechnology, and in 2023, the Faculty of Pharmacy appointed her as the Principal Investigator.

Dr. Shiqi Wang has several ongoing projects funded by the Research Council of Finland (former Acadmy of Finland), Sigrid Jusélius Foundation, Finnish Red Cross Blood Service Research Fund, and Jane and Aatos Erkko Foundation. **In 2023, Dr. Wang received the ERC starting grant of 1.5 M€**, to develop innovative solutions for intracellular drug delivery quantification.

Education

Työsuhteet

Ohjaaja tohtoriohjelmassa
Doctoral Programme in Drug Research
Helsingin yliopisto
Suomi
1 tammik. 2021 → present

dosentuuri

Farmasian tiedekunnan osastot
Helsingin yliopisto
Suomi
31 lokak. 2022 → present

akatemiatutkija

Farmaseuttisen kemian ja teknologian osasto
Helsingin yliopisto
Suomi
1 syysk. 2023 → present

Drug Research Program

Helsingin yliopisto
Suomi
31 maalisk. 2023 → present

Nanomedicines and Biomedical Engineering

Helsingin yliopisto

Helsinki, Suomi

1 marrask. 2022 → present

Projektit

Awards and Fellowships

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Julkaisut

Quantitative analysis of electroporation-mediated intracellular delivery via bioorthogonal luminescent reaction

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Cell-mediated nanoparticle delivery systems: towards precision nanomedicine

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Deng, G., Huang, K., Jiang, X., Wang, K., Song, Z., Su, Y., Li, C., Zhang, S., Wang, S. & Huang, Y., jouluk. 2023, julkaisussa: Collagen and leather. 5, 1, 26.

Enhancing Apoptosome Assembly via Mito-Biomimetic Lipid Nanocarrier for Cancer Therapy

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Mycophenolic Acid-loaded Naïve Macrophage-derived Extracellular Vesicles Rescue Cardiac Myoblast after Inflammatory Injury

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Du, B., Zhang, C., Deng, G., Zhang, S., Wang, S., Guan, Y. & Huang, Y., 12 lokak. 2023, julkaisussa: Journal of the Science of Food and Agriculture. 104, 2, s. 849-859 11 Sivumäärä

Evaluation of cell membrane-derived nanoparticles as therapeutic carriers for pancreatic ductal adenocarcinoma using an *in vitro* tumour stroma model

Tapeinos, C., Torrieri, G., Wang, S., Martins, J. P. & Santos, H. A., lokak. 2023, julkaisussa: Journal of Controlled Release. 362, s. 225-242 18 Sivumäärä

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Cerda, S. L., Fontana, F., Wang, S., Correia, A., Molinaro, G., Tello, R. P., Hirvonen, J., Celia, C., Barreto, G. & Santos, H. A., elok. 2023, julkaisussa: Advanced Therapeutics. 6, 8, 16 Sivumäärä, 2300048.

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Hydrogels: from Bubble Tea to Cancer Therapy

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Rational design of a polysaccharide-based viral mimicry nanocomplex for potent gene silencing in inflammatory tissues

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Microfluidics Fabrication of Micrometer-Sized Hydrogels with Precisely Controlled Geometries for Biomedical Applications

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Synergistic immunomodulatory effect in macrophages mediated by magnetic nanoparticles modified with miRNAs

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Multifunctional Biomimetic Nanovaccines Based on Photothermal and Weak-Immunostimulatory Nanoparticulate Cores for the Immunotherapy of Solid Tumors

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Acetalated dextran based nano- and microparticles: synthesis, fabrication, and therapeutic applications

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pH-Responsive Amphiphilic Carboxylate Polymers: Design and Potential for Endosomal Escape

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Investigation of silicon nanoparticles produced by centrifuge chemical vapor deposition for applications in therapy and diagnostics

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Recombination Monophosphoryl Lipid A-Derived Vacosome for the Development of Preventive Cancer Vaccines

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Superfast and controllable microfluidic inking of anti-inflammatory melanin-like nanoparticles inspired by cephalopods

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Intracellular co-delivery of melanin-like nanoparticle and budesonide by endosomolytic polymeric materials for anti-inflammatory therapy

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Antitumor Therapeutics: A Virus-Mimicking pH-Responsive Acetalated Dextran-Based Membrane-Active Polymeric Nanoparticle for Intracellular Delivery of Antitumor Therapeutics (Adv. Funct. Mater. 51/2019)

Wannasarat, S., Wang, S., Figueiredo, P., Trujillo Olvera, C. X., Eburnea, F., Simón-Gracia, L., Correia, A., Ding, Y., Teesalu, T., Liu, D., Wiwattanapatapee, R., Santos, H. A. & Li, W., 19 jouluk. 2019, julkaisussa: Advanced Functional Materials. 29, 51, s. 1970351 1 Sivumäärä

A Virus-Mimicking pH-Responsive Acetalated Dextran-Based Membrane-Active Polymeric Nanoparticle for Intracellular Delivery of Antitumor Therapeutics

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