Junyang Qi

PHD

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Education **Sun Yat-sen University** Guangzhou, China 2017 - 2021 PHD, MEDICINAL CHEMISTRY · Advisors: Prof. Wenbin Deng **Wuhan Institute of Technology** Wuhan, China BS & MSc, Pharmaceutical Chemistry 2010 - 2017 · Advisor: Prof. Heng Zhang & Prof. Yihong Yang Professional Experience _____ 2024-Pres. Postdoctoral Scholar, Department of Radiology and Biomedical Imaging, UCSF; Advisor: Prof. Michael Evans 2021-2023 Postdoctoral Fellow, School of Pharmaceutical Sciences, Sun Yat-sen University Research Interests Cancer Phototherapy; Radioligand Therapy; Translational Oncology; Cancer Theranostics; Small-Molecule Probes Skills & Expertise _____ Basic Chemistry: Organic Synthesis; Chemical Analysis; Radiochemistry; Peptide Synthesis ... Molecular Biology: Cell Culture; SDS-PAGE; Western Blot; Cell Imaging; Transfection; Flow Cytometry ... in vivo Oncology: Cancer Model Establishment; in vivo Chemotherapy/Phototherapy; Animal Surgery & Tissue Analysis in vivo Multimodal Cancer Imaging (FL, PET, SPECT); Radioligand Imaging & Therapy ... Awards, Fellowships, & Grants _____ 2018 National Postgraduate Scholarship, Sun Yat-sen University 2017-2020 Postgraduate Studentship, Sun Yat-sen University 2015 **Excellent Postgraduate Leader**, Wuhan Institute of Technology 2015 Creative Research Funding for Postgraduate Education, Wuhan Institute of Technology 2014-2017 Postgraduate Fellowship, Wuhan Institute of Technology National Encouragement Scholarship, Wuhan Institute of Technology 2013 Merit Student, Wuhan Institute of Technology 2012 Research Experience _____ University of California, San Francisco - Department of Radiology and Biomedical

Advisors: Prof. Prof. Michael Evans

• Project: "Activatable Peptides for Enhanced Radioligand Therapy"

San Francisco, CA

2024- Present

Imaging,

Sun Yat-sen University - School of Pharmaceutical Sciences

Shenzhen, China

CO-Advisors: Prof. Wenbin Deng & Prof. Lin Mei

2021 - 2023

 Project: "Artesunate-Modified Black Phosphorus Nanosheets for Enhanced Photo-Chemo-Dynamic Ferroptosis in Glioblastoma Treatment"

Sun Yat-sen University - School of Pharmaceutical Sciences

Guangzhou, China

CO-Advisors: Prof. Wenbin Deng, Prof. Lin Mei & Dr. Gan Liu

2017 - 2021

• Dissertation: "Heterobifunctional PEG-grafted Black Phosphorus Quantum Dots: "Three-in-One" Nano-platforms for Mitochondria-targeted Photothermal Cancer Therapy"

Wuhan Institute of Technology - College of Engineering and Pharmacy

Wuhan, China

ADVISOR: PROF. YIHONG YANG & PROF. HENG ZHANG

2014-2017

• Dissertation: "Synthetic Optimization of Istradefylline"

Wuhan Institute of Technology & Wuhan Renfu Pharmaceutical Industry Co.,Ltd.

Wuhan, China

2013-2014

Advisor: Prof. Shuangxi Gu

• Dissertation: "Determination of Dissolution of a Soft Capsule, RFCM2012-07"

Presentations _____

- 2019. Invited Speaker, The Eleventh National Conference on Chemical Biology
- 2015. Invited Speaker, National Student Essay Competition for Pharmaceutical Engineering Research
- 2013. Conference Speaker, The Sixth Pharmaceutical Forum in China Pharmaceutical University

Teaching Experience __

- 2018 Human Anatomy and Physiology, Teaching Assistant
- 2017 **Pharmacology**, Teaching Assistant

Publications _____

- **Qi, J.**; Xiong, Y.; Cheng, K.; Huang, Q.; Cao, J.; He, F.; Mei, L.; Liu, G.; Deng, W., Heterobifunctional PEG-grafted black phosphorus quantum dots: "Three-in-One" nano-platforms for mitochondria-targeted photothermal cancer therapy. *Asian J. Pharm. Sci.* 2021, 16 (2), 222-235.
- Cheng, K.#; **Qi, J.**#; Zhang, J.; Li, H.; Ren, X.; Wei, W.; Meng, L.; Li, J.; Li, Q.; Zhang, H.; Deng, W.; Sun, H.; Mei, L., Self-assembled nano-photosensitizer for targeted, activatable, and biosafe cancer phototheranostics. *Biomaterials* 2022, 291, 121916. (#Equal Contribution)
- Cao, J.#; Qi, J.#; Lin, X.; Xiong, Y.; He, F.; Deng, W.; Liu, G., Biomimetic black phosphorus nanosheet-based drug delivery system for targeted photothermal-chemo cancer therapy. *Front Bioeng. Biotechnol.* 2021, 9, 707208. (#Equal Contribution)
- Xiong, Y.; He, C.; **Qi, J.**; Xiong, M.; Liu, S.; Zhao, J.; Li, Y.; Liu, G.; Deng, Black phosphorus nanosheets activate tumor immunity of glioblastoma by modulating the expression of the immunosuppressive molecule PD-L1. *Biomaterials* 2025, 317, 123062.
- Cheng, K.; Qi, J.; Ren, X.; Zhang, J.; Li, H.; Xiao, H.; Wang, R.; Liu, Z.; Meng, L.; Ma, N.; Sun, H., Developing isoxazole as a native photo-cross-linker for photoaffinity labeling and chemoproteomics. *Angew. Chem. Int. Ed.* 2022, 61 (47), e202209947.
- He, F.; Cao, J.; **Qi, J.**; Liu, Z.; Liu, G.; Deng, W., Regulation of stem cell differentiation by inorganic nanomaterials: recent advances in regenerative medicine. *Front Bioeng. Biotechnol.* 2021, 9, 721581.
- Liu, G.; Tsai, H.-I.; Zeng, X.; **Qi, J.**; Luo, M.; Wang, X.; Mei, L.; Deng, W., Black phosphorus nanosheets-based stable drug delivery system via drug-self-stabilization for combined photothermal and chemo cancer therapy. *Chem. Eng. J.* 2019, 375, 121917.

Patents _____

- Liu, G.; Deng, W.; **Qi, J.**, Huang, Q.; Lin, X.; Xiong, Y.; Cao, J.; He, F.; Liu, Z., The preparation method and application of black phosphorus material. *CN Patent*, 2022, Priority No. CN202110258334.9
- Deng, W.; Liu, J.; Mai, Y.; **Qi, J.**; Dou, L.; Qin, Y., A preparation method of oral black phosphorus nanomaterial and its application in gastrointestinal diseases. *CN Patent*, 2022, Priority No. CN202210090594.4
- Deng, W.; Huang, Q.; Liu, G.; **Qi, J.**, A stable targeted photothermal black phosphorus nanosheet formulation, its preparation method, and application. *CN Patent*, 2022, Priority No. CN202110249057.5