

Junyang Qi

PHD | IN VIVO PHARMACOLOGY · RADIOLIGAND & PEPTIDE THERAPEUTICS · TRANSLATIONAL ONCOLOGY

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Professional Experience

University of California, San Francisco – Dept. of Radiology & Biomedical Imaging

San Francisco, CA

POSTDOCTORAL SCHOLAR

Jan 2024 – Present

- Advisor: Prof. Michael Evans

Sun Yat-sen University – School of Pharmaceutical Sciences

Guangzhou, CN

POSTDOCTORAL FELLOW

Sep 2021 – Sep 2023

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

Education

Sun Yat-sen University

Guangzhou, CN

PHD, MEDICINAL CHEMISTRY

Sep 2017 – Jun 2021

- Advisor: Prof. Wenbin Deng

Wuhan Institute of Technology

Wuhan, CN

BSc & MSc, PHARMACEUTICAL CHEMISTRY

Sep 2010 – Jun 2017

- Advisors: Prof. Heng Zhang & Prof. Yihong Yang

Research Interests

Radioligand/peptide therapeutics, in vivo PK/PD, PET/SPECT molecular imaging, drug discovery & translational oncology

Skills & Expertise

In vivo Pharmacology: Oncology/disease models, small animal handling & dosing (IV/IP/PO/SC), in vivo PK/PD studies

Survival & efficacy studies, toxicity assessment, blood sampling, necropsy

Imaging & Bioanalysis: IVIS imaging, PET/SPECT/CT imaging, LCMS, biodistribution, tissue harvesting & histology

Radioligand&Peptide Therapeutics: Radiochemistry, peptide synthesis/conjugation, linker chemistry, chemical analysis

Molecular & Cellular Biology: Cell culture, SDS-PAGE, western blot, microscopy imaging, transfection, flow cytometry

Research Experience

University of California, San Francisco – Dept. of Radiology and Biomedical Imaging

San Francisco, CA

ADVISOR: PROF. MICHAEL EVANS

Jan 2024 – Present

- Development of restricted interaction peptides (RIPs) for transformative radioligand therapies.
- FAP-based trappable small molecule probes for targeted radioligand therapies.

Sun Yat-sen University – School of Pharmaceutical Sciences

Guangzhou, China

ADVISORS: PROF. WENBIN DENG & PROF. LIN MEI

Sep 2017 – Sep 2023

- Black phosphorus nanomedicine for enhanced phototherapies/chemotherapies/immunotherapies and applications in cancer treatment and neuroregenerative diseases
- Development of activatable small-molecule probes and nanomedicines aimed at targeted protein degradation and cancer treatment.
- Representative publications: *Asian J. Pharm. Sci.* 2021, 16(2), 222-235; *Biomaterials* 2022, 291, 121916; *Front Bioeng. Biotechnol.* 2021, 9, 707208; *Angew. Chem. Int. Ed.* 2022, 61(47), e202209947; *Biomaterials* 2025, 317, 123062.

Wuhan Institute of Technology – College of Engineering and Pharmacy

ADVISORS: PROF. YIHONG YANG & PROF. HENG ZHANG

- Synthetic optimization of istradefylline and its biological applications

Wuhan, China

Sep 2014 - Jun 2017

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

ADVISOR: PROF. SHUANGXI GU

- Dissolution study of a soft capsule, RFCM2012-07

Wuhan, China

Sep 2013 – Jun 2014

Presentations

2025 – Invited Speaker, Prostate Cancer Program Annual Scientific Retreat - UCSF

2019 – Invited Speaker, The Eleventh National Conference on Chemical Biology

2015 – Invited Speaker, National Student Essay Competition for Pharmaceutical Engineering Research

Awards, Fellowships, & Grants

2018	National Postgraduate Scholarship , China Ministry of Education	Top 1–3%
2017	Postgraduate Studentship , Sun Yat-sen University	
2015	Outstanding Graduate Student Leader , Wuhan Institute of Technology	Top 5%
2015	Graduate Innovation Research Grant , Wuhan Institute of Technology	Top 5–10%
2014	First-Class Academic Scholarship , Wuhan Institute of Technology	Top 5–10%
2013	National Encouragement Scholarship , China Ministry of Education	Top 5–10%
2012	Outstanding Merit Student , Wuhan Institute of Technology	Top 5–10%

Teaching Experience

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

Professional Service

Invited peer reviewer for **International Journal of Molecular Sciences** and **Pharmaceutics** (6 manuscripts reviewed)

Selected 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. (Impact Factor = 11.9)

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, Impact Factor = 12.9)

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, Impact Factor = 4.8)

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. (Impact Factor = 17)

Full list of publications and patents available on <https://scholar.google.com/citations?user=GwDnwrwAAAAJ&hl=en>