

# Ke Cheng

PHD · CHEMICAL BIOLOGY

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## Professional Experience

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### **University of California, San Francisco – Department of Pharmaceutical Chemistry**

San Francisco, CA

POSTDOCTORAL SCHOLAR

Jan 2024 – Present

- Advisor: Prof. Adam Renslo

### **Sun Yat-sen University – School of Pharmaceutical Sciences**

Guangzhou, CN

POSTDOCTORAL RESEARCHER

Nov 2022 – Nov 2023

- Advisor: Prof. Wenbin Deng

### **WuXi AppTec**

INTERN

Wuhan, CN

Oct 2013 – Jun 2014

## Education

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### **City University of Hong Kong – Department of Chemistry**

Hong Kong

PHD, CHEMICAL BIOLOGY

Sep 2018 – Oct 2022

- Advisor: Prof. Hongyan Sun

### **Jinan University – School of Pharmacy**

Guangzhou, CN

MSc, MEDICINAL CHEMISTRY

Sep 2015 – Jun 2018

- Advisors: Prof. Ke Ding & Prof. Zhengqiu Li

### **Wuhan Institute of Technology**

Wuhan, CN

BS, PHARMACEUTICAL ENGINEERING

Sep 2010 – Jun 2014

## Research Interests

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Small-Molecule Drugs & Probes Development, Chemoproteomics, Targeted Therapeutics, Translational Oncology

## Research Experience

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### **University of California, San Francisco - Department of Pharmaceutical Chemistry**

San Francisco, CA

ADVISORS: PROF. ADAM RENSLO & PROF. MICHAEL EVANS

Jan 2024- Present

- Developing novel small-molecule therapeutics and chemical probes for infectious disease treatment, new druggable target identification, and targeted radioligand therapies/chemotherapies for cancer treatment.
- Relevant publications: *PNAS* 2024, 121(28), e2401579121; *ACS Med. Chem. Lett.* 15(10), 1764–1770.

### **Sun Yat-sen University - School of Pharmaceutical Sciences**

Guangzhou, China

ADVISORS: PROF. WENBIN DENG & PROF. LIN MEI

Nov 2022 - Nov 2023

- Postdoctoral researcher specializing in the development of activatable small-molecule probes and nanomedicines aimed at targeted protein degradation and cancer treatment.
- Representative publications: *Biomaterials* 2022, 291, 121916; *Chem. Eng. J.* 2023, 472, 144977.

## **City University of Hong Kong - Department of Chemistry**

ADVISOR: PROF. HONGYAN SUN

Hong Kong

Sep 2018 - Sep 2022

- PhD student focused on the development of small-molecule fluorescent probes for cancer theranostics, and the creation of novel photochemical tools to facilitate drug discovery and identification of druggable targets. Conducted interdisciplinary research at the interface of chemical biology and medicinal chemistry to support advances in targeted cancer therapies
- Representative publications: *Angew. Chem. Int. Ed.* 2022, 61(47), e202209947; *Biomaterials* 2022, 291, 121916.

## **Jinan University - School of Pharmacy**

ADVISORS: PROF. KE DING & PROF. ZHENGQIU LI

Guangzhou, China

Sep 2015- Jun 2018

- MSc student focused on the design and synthesis of a small-molecule library for screening new anticancer drugs, druggable cellular protein targets, and powerful cancer imaging and detection assays.
- Representative publications: *Angew. Chem. Int. Ed.* 2017, 56(47), 15044-15048; *ACS Chem. Biol.* 2019, 14 (12), 2546-2552.

## **WuXi AppTec (Wuhan) – Department of Chemistry**

INTERN

Wuhan, China

Oct 2013- Jun 2014

- Small Molecules Development

## **Selected Publications**

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1. **Cheng, K.**; Lee, J. S.; Hao, P.; Yao, S. Q.; Ding, K.; Li, Z., Tetrazole-Based Probes for Integrated Phenotypic Screening, Affinity-Based Proteome Profiling, and Sensitive Detection of a Cancer Biomarker. *Angew. Chem. Int. Ed.* 2017, 56 (47), 15044-15048. (*Impact Factor* = 17)
2. **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)
3. **Cheng, K.**; Qi, J.; Zhang J.; Li H.; Ren X.; Wei W.; Meng L.; Jing L.; 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. (*Impact Factor* = 12.9)

Full list of publications and patents available on <https://scholar.google.com/citations?user=HfBo1jcAAAAJ&hl=en>

## **Skills & Expertise**

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**Organic Chemistry:** Organic Synthesis; Analytical Chemistry; Peptide Synthesis; Molecular Docking

**Chemical Biology:** Small-Molecule Drug Discovery; Chemical Probe Development; Chemoproteomics; Prodrug Design

**Cell & Molecular Biology:** Cell Culture; SDS-PAGE; Western Blot; Cell Imaging; Proteomics Analysis; Bioinformatics

## **Awards & Fellowships**

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2018-2021 **Postgraduate Studentship**, City University of Hong Kong

2018 **Creative Research Award**, Jinan University

Top 1%

2017 **National Postgraduate Scholarship**, China Ministry of Education

Top 1-3%

2015-2018 **Postgraduate Fellowship**, Jinan University

## **Teaching Experience**

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2020 **Principles of Organic Chemistry**, Teaching Assistant

CityU, HK

2018 **Chemistry**, Teaching Assistant

CityU, HK

## **Professional Service**

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- **Guest Editor:** *Sensors*, 2024–present

- **Invited Peer Reviewer:** 18 journals including *International Journal of Molecular Sciences*, *Bioorganic Chemistry*, *Heliyon*, *Pharmaceutics*, *Biosensors*, *Chemical Research in Toxicology*, *Biomolecules*, *Sensors & Diagnostics* (69 reviews)