

CV

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Education

- **PhD/MSc (Oncology; MD-PhD track)** — West China School of Medicine / West China Hospital, Sichuan University, China (2019.09–2025.06)
 - China Association for Science and Technology (CAST) **Young Talent Support Program** (PhD track)
 - Supervisor: Prof. Xingchen Peng
 - Honors/Scholarships (selected): National Scholarship (MOE, China); Abbott Medical Nutrition Scholarship; Daiichi Sankyo Scholarship; Outstanding Graduate Student; Outstanding Graduate
- **BMed (Clinical Medicine) + Sino-UK Joint Program (Clinical Medicine & Biomedical Sciences)** — Nanchang University, China (2014.09–2019.06)
 - Dual-degree track (Nanchang University × Queen Mary University of London)
 - CET-6: 552

Appointments

- **Postdoctoral Researcher & Physician** — Cancer Center, West China Hospital (Sichuan University), China (2025.07–present)

Research interests

- Oncology and cancer bioinformatics
- Sequencing / multi-omics analysis (bulk & single-cell)
- Translational research and clinical data integration

Publications (summary)

Updated automatically from OpenAlex using ORCID (**0000-0002-4848-4951**) on 2026-02-04.

- Total publications (OpenAlex matched): **157**
- H-index (computed from OpenAlex cited_by_count): **14**
- Total citations (OpenAlex): **775**

Note: counts can differ from Google Scholar/PubMed due to author disambiguation and indexing coverage.

Representative publications (first / co-first)

1. **Liu Z.** *Liquid–liquid phase separation: roles and implications in future cancer treatment.* **Int J Biol Sci.** 2023;19(13):4139–4156. doi:10.7150/ijbs.81521
2. **Liu Z.** *Association between fish oil supplementation and cancer risk according to fatty fish consumption: a large prospective cohort study using UK Biobank.* **Int J Cancer.** 2022;150(4):562–571.
3. **Liu Z.** *Associations of sleep and circadian phenotypes with COVID-19 susceptibility and hospitalization: UK Biobank observational cohort + two-sample Mendelian randomization.* **Sleep.** 2022;45(6):zsac003.
4. Zhao Y, **Liu Z.** *Biomimetic Hierarchical Construction of Anti-Tumor Polyoxopalladates for Cancer Therapy.* **Angew Chem Int Ed.** 2025;64(23):e202505564.

Full list: see PubMed link above.

Patents (filed; selected)

- Use of mesenchymal stem cell-derived exosomes for treating radiation-induced skin injury (202410662238.4)
- Radioresistant head and neck squamous cell carcinoma cell line: construction and applications (202410790223.6)
- Radioresistant mouse oral squamous cell carcinoma cell line: construction and applications (202410790222.1)
- Use of SPOP protein for hepatocellular carcinoma therapeutics (202410892129.1)

Grants & projects

- **PI** — Sichuan Provincial Department of Science and Technology, MZGC20230020: Prognostic model for brain metastasis based on hematological markers (2023-06-01 to 2024-06-01), 20,000 RMB
- **Key participant (lead analyst)** — Central Government-Guided Local S&T Development, 2024ZYD0054: CAF-mediated EGFR-TKI resistance in HNSCC (2024-09-01 to 2025-08-31), 300,000 RMB
- **Key participant (lead analyst)** — Sichuan International/HK/Macao/Taiwan S&T Collaboration, 2025YFHZ0087: AI-driven neoantigen prediction & mRNA vaccine development for HNSCC (2025-01-01 to 2025-12-31), 200,000 RMB

- **Participant** — National Key R&D Program of China, 2021YFE0206600: EBV-targeted mRNA vaccine for nasopharyngeal carcinoma, 1,600,000 RMB (ongoing)

Academic services

- Editorial Board Member: **BMC Cancer**
- Guest Editor: **Frontiers in Immunology**
- Reviewer: **The BMJ, iMeta**
- Memberships: **AACR**, Chinese Anti-Cancer Association
- Committee roles (selected): Sichuan Medical Communication Society (Cancer Prevention & Control Branch); Chengdu Anti-Cancer Association (Cancer Rehabilitation)

Training & international experience

- ASCO Annual Meeting (Chicago), Poster (2024; No. 6046)
- AACR Annual Meeting (Orlando), Poster (2023; No. 5562)
- Harvard & Johns Hopkins Medical School Graduate Training Program (2020)
- Queen Mary University of London, Summer exchange (2016)

Skills

- **Bioinformatics / data analysis:** extensive experience in single-cell and transcriptomics analysis; clinical research statistics; data mining and visualization in **R**
- **Research:** end-to-end experience across basic, translational, and clinical oncology research
- **Grant writing / project operations:** protocol writing, project registration & submission, statistical analysis

Licenses & certifications

- Physician License (China)
- GCP Certification