

## XIAOLING LI

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### RESEARCH INTERESTS

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Drug resistance, tumor heterogeneity, lineage plasticity, mutagenesis, ecDNA, prostate cancer

### EDUCATION

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#### Zhejiang University, China

09/2013 – 06/2018 Ph.D., Cell Biology, Mentor: Dr. Hai Song

#### Henan Normal University, China

09/2009 – 06/2013 B.S., Biotechnology

### EXPERIENCE

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#### Associate Research Scientist – Yale School of Medicine

11/2024 – present Department of Urology, New Haven, CT, Mentor: Dr. Ping Mu

#### Postdoctoral Fellow – UT Southwestern Medical Center

10/2018 – 10/2024 Department of Molecular Biology, Dallas, TX, Mentor: Dr. Ping Mu

### PUBLICATIONS

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#### In Revision:

1. Wang C\*, Li X\*, Xu Q, Fu Z, Johnson N, Jiang Y, Tang Y, Xu Y, Gonzalez J, Fraidenbury M, Mukherji A, Li X, Bayona J, Tirado CR, Metang L, Hofstad M, Yang Y, Zhang S, Wang Y, Wang T, Han L, Lemoff A, Deng S†, Mu P†. Prostate Cancer Exploits Neurolysin to Modulate the Tumor Microenvironment and Therapy Resistance via KIF11-Mediated WNT Secretion. **Nature** *In revision*. (\***Equal contribution**, †Co-corresponding).

#### Research Article:

2. Rodriguez Tirado C, Wang C, Li X, Deng S, Gonzalez J, Johnson NA, Xu Y, Metang LA, Sundar Rajan M, Yang Y, Yin Y, Hofstad M, Raj GV, Zhang S, Lemoff A, He W, Fan J, Wang Y, Wang T, Mu P. UBE2J1 is the E2 ubiquitin-conjugating enzyme regulating androgen receptor degradation and antiandrogen resistance. **Oncogene**. 2024. doi: 10.1038/s41388-023-02890-5.
3. Li X\*, Wang Y\*, Deng S, Zhu G, Wang C, Johnson NA, Zhang Z, Tirado CR, Xu Y, Metang LA, Gonzalez J, Mukherji A, Ye J, Yang Y, Peng W, Tang Y, Hofstad M, Xie Z, Yoon H, Chen L, Liu X, Chen S, Zhu H, Strand D, Liang H, Raj G, He HH, Mendell JT, Li B, Wang T, Mu P. Loss of SYNCRIP unleashes APOBEC-driven mutagenesis, tumor heterogeneity, and AR-targeted therapy resistance in prostate cancer. **Cancer Cell**. 2023 Aug 14;41(8):1427-1449.e12. doi: 10.1016/j.ccell.2023.06.010. Epub 2023 Jul 20. PubMed PMID: 37478850. \***Equal contribution**
4. Zhang Z\*, Zhou C\*, Li X\*, Barnes SD, Deng S, Hoover E, Chen CC, Lee YS, Zhang Y, Wang C, Metang LA, Wu C, Tirado CR, Johnson NA, Wongvipat J, Navrazhina K, Cao Z, Choi D, Huang CH, Linton E, Chen X, Liang Y, Mason CE, de Stanchina E, Abida W, Lujambio A, Li S, Lowe SW, Mendell JT, Malladi VS, Sawyers CL, Mu P. Loss of CHD1 Promotes Heterogeneous Mechanisms of Resistance to AR-Targeted Therapy via Chromatin Dysregulation. **Cancer Cell**. 2020 Apr 13;37(4):584-598.e11. doi: 10.1016/j.ccell.2020.03.001. Epub 2020 Mar 26. PubMed PMID: 32220301; PubMed Central PMCID: PMC7292228. \***Equal contribution**
5. Deng S\*, Wang C\*, Wang Y\*, Xu Y, Li X, Johnson NA, Mukherji A, Lo UG, Xu L, Gonzalez J, Metang LA, Ye J, Tirado CR, Rodarte K, Zhou Y, Xie Z, Arana C, Annamalai V, Liu X, Vander Griend DJ, Strand D, Hsieh JT, Li B, Raj G, Wang T, Mu P. Ectopic JAK-STAT activation enables the transition to a stem-like and multilineage state conferring AR-targeted therapy resistance. **Nature**

- Cancer.** 2022 Sep;3(9):1071-1087. doi: 10.1038/s43018-022-00431-9. Epub 2022 Sep 5. PubMed PMID: 36065066; PubMed Central PMCID: PMC9499870.
6. Wu Q, Guo J, Liu Y, Zheng Q, Li X, Wu C, Fang D, Chen X, Ma L, Xu P, Xu X, Liao C, Wu M, Shen L, Song H. YAP drives fate conversion and chemoresistance of small cell lung cancer. **Sci Adv.** 2021 Oct;7(40):eabg1850. doi: 10.1126/sciadv.abg1850. Epub 2021 Oct 1. PubMed PMID: 34597132.
  7. Wu A, Wu Q, Deng Y, Liu Y, Lu J, Liu L, Li X, Liao C, Zhao B, Song H. Loss of VGLL4 suppresses tumor PD-L1 expression and immune evasion. **EMBO J.** 2019 Jan 3;38(1). doi: 10.15252/embj.201899506. Epub 2018 Nov 5. PubMed PMID: 30396996; PubMed Central PMCID: PMC6589543.
  8. Lu J, Liu L, Zheng M, Li X, Wu A, Wu Q, Liao C, Zou J, Song H. MEKK2 and MEKK3 suppress Hedgehog pathway-dependent medulloblastoma by inhibiting GLI1 function. **Oncogene.** 2018 Jul;37(28):3864-3878. doi: 10.1038/s41388-018-0249-5. Epub 2018 Apr 17. PMID: 29662197; PMCID: PMC6041257.
  9. Li X, Liu L, Li R, Wu A, Lu J, Wu Q, Jia J, Zhao M, Song H. Hepatic loss of Lissencephaly 1 (Lis1) induces fatty liver and accelerates liver tumorigenesis in mice. **J Biol Chem.** 2018 Apr 6;293(14):5160-5171. doi: 10.1074/jbc.RA117.001474. Epub 2018 Feb 23. PubMed PMID: 29475944; PubMed Central PMCID: PMC5892582.
  10. Liu L, Lu J, Li X, Wu A, Wu Q, Zhao M, Tang N, Song H. The LIS1/NDE1 Complex Is Essential for FGF Signaling by Regulating FGF Receptor Intracellular Trafficking. **Cell Rep.** 2018 Mar 20;22(12):3277-3291. doi: 10.1016/j.celrep.2018.02.077. PubMed PMID: 29562183.
  11. Song H, Lin C, Yao E, Zhang K, Li X, Wu Q, Chuang PT. Selective Ablation of Tumor Suppressors in Parafollicular C Cells Elicits Medullary Thyroid Carcinoma. **J Biol Chem.** 2017 Mar 3;292(9):3888-3899. doi: 10.1074/jbc.M116.765727. Epub 2017 Jan 24. PubMed PMID: 28119454; PubMed Central PMCID: PMC5339769.

#### **Review:**

12. Li X, Gardner EE, Molina-Pinelo S, Wilhelm C, Mu P, Quintanal-Villalonga Á. Lineage plasticity and histological transformation: tumor histology as a spectrum. **Cell Research.** 2025 Sep 30. doi: 10.1038/s41422-025-01180-x.
13. Li X, Mu P. Restoring our ubiquitination machinery to overcome resistance in cancer therapy. **Oncoscience.** 2024 May 6; 11:43-44. doi: 10.18632/oncoscience.600. PMID: 38711948; PMCID: PMC11073315.
14. Li X, Mu P. The Critical Interplay of CAF Plasticity and Resistance in Prostate Cancer. **Cancer Research.** 2023 Sep 15;83(18):2990-2992. doi: 10.1158/0008-5472.CAN-23-2260.

My Bibliography: <https://www.ncbi.nlm.nih.gov/myncbi/1Xw94ndLp88Qj/bibliography/public/>

#### **EXTRAMURAL FUNDING**

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##### **DoD PCRP Early Investigator Research Award #W81XWH-20-PCRP-EIRA (Role: PI)**

**Status:** Completed

**Project Title:** Overcoming the SYNCRIIP-Loss conferred antiandrogen resistance in prostate cancer

**Years:** 9/1/2021-8/31/2024

**Total Direct:** \$468,281

##### **NCI K99/R00 Pathway to Independence Award (Role: PI)**

**Status:** Under review

**Project Title:** Dissecting the Interplay Between Genomic Instability, ecDNA, and Immune Modulation in Prostate Cancer Evolution and Therapeutic Resistance

**Years:** 2026-2031 (pending)

## **SELECTED HONORS AND AWARDS**

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|             |   |
|-------------|---|
| 2024        | AACR-Sanofi Scholar-in-Training Award   |
| 2023        | Travel Award, 2023 Fall UTSW Postdoctoral Association   |
| 2023        | Travel Award, 2023 Society for Basic Urologic Research (SBUR) Annual Meeting                          |
| 2020        | Early Investigator Research Award, Department of Defense, USA   |
| 2020        | Keystone eSymposia Scholarship on Tissue Plasticity: Preservation and Alteration of Cellular Identity |
| 2014        | Outstanding graduate student award, Zhejiang University, China  |
| 2013        | Outstanding graduate award, Henan Normal University, China  |
| 2012        | National encouragement scholarship, Ministry of Education of China                                    |
| 2009 - 2012 | Outstanding all-round student award, Henan Normal University  |

## **MEMBERSHIP**

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|--------------|---|
| 2022-Present | Member of AACR Women in Cancer Research (WICR)                      |
| 2022-Present | Associate Member of American Association for Cancer Research (AACR) |
| 2020-Present | Member of Society for Basic Urologic Research (SBUR)                |

## **PRESENTATION**

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| 2024 | Poster, 2024 AACR Annual Meeting, San Diego, CA                                       |
| 2024 | Poster, 2024 Celebration of Women in Science and Medicine, Dallas, TX                 |
| 2023 | Invited Speaker, Toxicology and Cancer Biology, University of Kentucky, Lexington, KY |
| 2023 | Speaker, 2023 SBUR Annual Meeting, San Antonio, TX                                    |
| 2023 | Poster, 2023 SBUR Annual Meeting, San Antonio, TX                                     |
| 2023 | Poster, 2023 Annual Postdoc Research Symposium, Dallas, TX                            |
| 2023 | Poster, 2023 AACR Annual Meeting, Orlando, FL   |
| 2022 | Poster, 2022 SBUR Annual Meeting, online  |
| 2020 | Poster, 27th Annual Prostate Cancer Foundation (PCF) Scientific Retreat, online       |
| 2019 | Poster, The Tumor Cell: Plasticity, Progression and Therapy, New York, NY             |

## **MENTORING**

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|              |   |
|--------------|---|
| 2024-Present | Graduate student Amanda Leonita, Yale University, New Haven, CT   |
| 2023         | Graduate student Atreyi Mukherji, UT Southwestern Medical Center, Dallas, TX  |
| 2022         | Research technician Heewon Yoon, UT Southwestern Medical Center, Dallas, TX   |
| 2020         | Rotation student Julisa Gonzalez, UT Southwestern Medical Center, Dallas, TX  |
| 2019         | Rotation student Faviola Bernard-Vasquez, UT Southwestern Medical Center, Dallas, TX  |
| 2019-2024    | Graduate student Choushi Wang, Genetics, Development and Disease Graduate Program, UT Southwestern Medical Center, Dallas, TX |
| 2019-2023    | Graduate student Carla Rodriguez Tirado, Cancer Biology Program, UT Southwestern Medical Center, Dallas, TX                   |

## **REVIEWER & EDITORIAL CONTRIBUTIONS**

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Guest Editor for Frontiers in Genetics.

Reviewer for Journal of Cellular Physiology, BMC Cancer, BioMed Research International, Frontiers in Endocrinology, Frontiers in Immunology, Frontiers in Oncology, Experimental and Therapeutic Medicine, Medicine, Biochemical genetics, Advanced biology, Advanced biosystems