

## 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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- 09/2013 – 06/2018      **Zhejiang University, China**  
Ph.D., Cell Biology, Mentor: Dr. Hai Song
- 09/2009 – 06/2013      **Henan Normal University, China**  
B.S., Biotechnology

### **EXPERIENCE**

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- 11/2024 – present      **Associate Research Scientist – Yale School of Medicine**  
Department of Urology, New Haven, CT, Mentor: Dr. Ping Mu
- 10/2018 – 10/2024      **Postdoctoral Fellow – UT Southwestern Medical Center**  
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 SYNCRIPI 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.ccr.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, Navrashina 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.ccr.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. PubMed PMID: 29662197; PubMed Central 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**

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

**Status:** Completed

**Project Title:** Overcoming the SYNCRIP-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