

## Xiuzhen Chen, Ph.D.

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### CONTACT INFORMATION

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Memorial Sloan Kettering Cancer Center  
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### EDUCATION

**Ph.D. in Cellular and Molecular Biology**

Institute of Biochemistry, ETH Zurich, Switzerland  
October 2013 - July 2018, Laboratory of Dr. Yves Barral

**M.S. in Biochemistry and Molecular Biology**

National Institute of Biological Sciences, Beijing, China  
August 2008 - June 2010, Laboratory of Dr. Bing Zhu

**B.S. in Biotechnology**

Zhejiang University, Hangzhou, China  
July 2004 - July 2008

### RESEARCH EXPERIENCES

**Postdoctoral Fellow**

Memorial Sloan Kettering Cancer Center, New York, United States  
May 2019 - present, Laboratory of Dr. Christine Mayr

**Postdoctoral Fellow**

Institute of Biochemistry, ETH Zurich, Switzerland  
Aug 2018 - April 2019, Laboratory of Dr. Yves Barral

**Research Assistant**

Institute of Molecular Health Sciences, ETH Zurich, Switzerland  
August 2011 - September 2013, Laboratory of Dr. Wilhelm Krek

### FELLOWSHIPS

1. Kravis Women in Science Endeavor Postdoctoral Fellowship (2022-2024)
2. Molecular Life Science travel award (2016)
3. Outstanding graduate Scholarship (2008)
4. National Merit Scholarships (2004-2008)

### PUBLICATIONS

1. **Chen X.**, Fansler M. M., Janjos U., Ule J., Mayr C. The FXR1 network acts as signaling scaffold for actomyosin remodeling. *Cell* 187, 5048-5063 (2024) [Full text link](#)
2. Horste L. E., Fansler M. M., Cai T., **Chen X.**, Mitschka S., Zhen G., Lee C. Y. F., Ule J., Mayr C. Subcytoplasmic location of translation controls protein output. *Mol. Cell* 83, 4509-4523 (2023). [Full text link](#)
3. **Chen X.**, Portran D., Widmer L., Stangier M. M., Czub P. M., Liakopoulos D., Steinmetz M. O., Stelling J., Barral Y. The motor domain of the kinesin Kip2 promotes microtubule polymerization at microtubule tips. *J. Cell Biol.* 222 (7) (2023). [Full text link](#)

4. **Chen X.**, Mayr C. A working model for condensate RNA-binding proteins as matchmakers for protein complex assembly. *RNA* 28, 76-87 (2022) .\*Review article [Full text link](#)
5. **Chen X.**, Widmer L., Stangier M. M., Steinmetz M. O., Stelling J., Barral Y. Remote control of microtubule plus-end dynamics and function from the minus-end. *Elife* 8 (2019). [Full text link](#)
6. Stangier M. M., Kumar A., **Chen X.**, Farcas A., Barral Y., Steinmetz M. O. Structure-function relationship of the Bik1-Bim1 complex. *Structure* 26, 607-618 e604 (2018). [Full text link](#)
7. Lengefeld J., Yen E., **Chen X.**, Leary A., Vogel J., Barral Y. Spatial cues and not spindle pole maturation drive the asymmetry of astral microtubules between new and pre-existing spindle poles. *Mol. Biol. Cell* 29, 10-28 (2018). [Full text link](#)
8. **Chen X.**, Xiong J., Xu M., Chen S., Zhu B. Symmetric modification within a nucleosome is not globally required for histone lysine methylation. *EMBO rep.* 12, 244-251 (2011). [Full text link](#)
9. Wu H., **Chen X.**, Xiong J., Li Y, Li H., Ding X., Liu S., Chen S., Gao S., Zhu B. Histone methyltransferase G9a contributes to H3K27 methylation in vivo. *Cell res.* 21, 365-367 (2011). [Full text link](#)
10. Xu M., Long C., **Chen X.**, Huang C., Chen S., Zhu B. Partitioning of histone H3-H4 tetramers during DNA replication-dependent chromatin assembly. *Science* 328, 94-98 (2010). [Full text link](#)

<b>INVITED TALKS</b>	Stanford RNA Medicine Seminar Series	Virtual, 2024
	First in line Cell Biology Seminar Series	New York, 2024
	Regeneron Science to Medicine Forum	New York, 2024
	Geoffrey Beene Cancer Research Retreat	New Jersey, 2024

<b>OTHER TALKS</b>	2nd NYC RNA Symposium	New York, 2024
	29th Annual Meeting of the RNA Society	Edinburgh, 2024
	MSK Cancer Biology and Genetics Program meeting	New York, 2023
	The 2022 Kravis Women in Science Endeavor (WiSE) Symposium	New York, 2022
	MSK Cancer Biology and Genetics Program meeting	New York, 2022
	LS2 annual meeting on Cell Biology from Tissue to Nucleus	Zurich, 2019

<b>SELECTED POSTERS</b>	SKI Basic Science Research Retreat	New York, 2023
	3rd International SystemsX.ch Conference on Systems Biology	Zurich, 2017
	LS2 annual meeting on Metabolism and Signaling in the Life Sciences	Zurich, 2017
	EMBO Symposium on Microtubules	Heidelberg, 2016

Biannual retreat of the Department of Biology in ETH Zurich      Davos, 2014, 2016  
 LS2 meeting on light: From the basis of life to life science technologies      Zurich, 2015  
 Retreat of the Institute of Biochemistry in ETH Zurich      Adelboden, 2015  
 ALL SystemsX.chDay-meeting of the Swiss Initiative in Systems Biology      Bern, 2014  
 Molecular Life Science PhD programme Retreat      Rigi, 2013  
 7th Annual Retreat of the Competence Center for Systems Physiology and Metabolic  
 Diseases (CC-SPMD)      Ittingen, 2012  
 Innovation in Drug Discovery: Science and Technology      Shanghai, 2010  
 CSH-Asia on 'Epigenetics, Chromatin, and Transcription'      Suzhou, 2010

## TEACHING

Year	School	Course	Teaching Contribution
2018	ETH Zurich	Cell Polarity	Laboratory teaching assistant
2016	ETH Zurich	Cellular dynamics	Practical course design and teaching
2014, 2016	ETH Zurich	Fundamentals of Biology	Lecturing and supervision of practical course
2015	ETH Zurich	Genetics	Laboratory teaching assistant

## MENTORSHIP

Year	Name	School	Role
2019	Ema Smajic	ETH Zurich	Master thesis co-mentor
2018	Désirée Marchand	ETH Zurich	Semester project mentor

## REFERENCES

### **Christine Mayr, M.D., Ph.D.**

*Postdoctoral supervisor*

Member, Memorial Sloan Kettering Cancer Center

mayrc@mskcc.org

### **Jernej Ule, Ph.D.**

*Collaborator*

Professor, King's College London

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### **Yves Barral, Ph.D.**

*Ph.D. supervisor*

Professor, ETH Zurich

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