Xiuzhen Chen, Ph.D.

CONTACT INFORMATION

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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. *bioRxiv* (2023)
   - doi: https://doi.org/10.1101/2023.11.05.565677

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. *in press, Mol. Cell* (2023)
   - Previous version on bioRxiv; doi: https://doi.org/10.1101/2022.11.04.515216

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 (2023)

4. **Chen X.**, Mayr C. A working model for condensate RNA-binding proteins as matchmakers for protein complex assembly. *RNA* 28, 76-87 (2022)

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)

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)

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)

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)

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)

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)

CONFERENCE PRESENTATIONS

SKI Basic Science Research Retreat	New York, 2023
The 2022 Kravis Women in Science Endeavor (WiSE) Symposium	New York, 2022
MSK Cancer Biology and Genetics Program talk	New York, 2022
LS2 annual meeting on Cell Biology from Tissue to Nucleus	Zurich, 2019
WORLD.MINDS annual symposium of an invitation-only community	Zurich, 2017
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 Biochemitry 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	Grundlagen der Biologie	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
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Jernej Ule, Ph.D.
Collaborator
Professor, King's College London
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