

Xueying C. Li

Education

- Ph.D. in Molecular Genetics and Genomics, 2018
Washington University in St. Louis, St. Louis, US
Advisor: Justin C. Fay
Thesis: Genetic basis of thermal divergence in *Saccharomyces* species.
- B.Sc. in Biological Science, 2013
Peking University, Beijing, China
Advisor: Chung-I Wu (Beijing Institute of Genomics, Chinese Academy of Sciences)
Thesis: Investigation on relationship between chromosome number and fitness of HeLa cells.

Research Experience

- 2019- EIPOD and Marie Skłodowska-Curie postdoctoral fellow with Justin Crocker, PhD., Christoph Merten, PhD. and Daniel Zerbino, PhD. European Molecular Biology Laboratory, Heidelberg, Germany.
- Experimental evolution of *bicoid* gene regulatory network in *Drosophila*.
- 2012 Undergraduate summer intern with Howard Lipshitz, Ph.D. Department of Molecular Genetics, University of Toronto, Ontario, Canada.
- Post-transcriptional regulation by *Smaug* in early embryogenesis of *Drosophila*.
- 2011-2012 Undergraduate research assistant with Dong Liu, Ph.D. Laboratory of Hearing & Sensory Organ Development and Regeneration, School of Life Sciences, Peking University, Beijing, China.
- The role of germ cells in somatic sexual development of *C. elegans*.

Publications

Research articles ([Google Scholar profile](#)) (*equal contribution, #corresponding author)

1. **Li XC**[#], Fay JC. 2019. Multiple changes underlie allelic divergence of *CUP2* between *Saccharomyces* species. *G3 Genes, Genomes, Genet.* 9(11):3595–

3600.

2. **Li XC[#]**, Peris D, Hittinger CT, Sia EA, Fay JC[#]. 2018. Mitochondria-encoded genes contribute to the evolution of heat and cold tolerance in yeast. *Sci Adv.* 5(1):eaav1848.
3. Baker EP, Peris D, Moriarty RV, **Li XC**, Fay JC, Hittinger CT[#]. 2018. Mitochondrial DNA and temperature tolerance in lager yeasts. *Sci Adv.* 5(1):eaav1869.
4. Zhang Y*, Li Y*, Li T*, Shen X*, Zhu T, Tao Y, **Li X**, Wang D, Ma Q, Hu Z, Liu J, Ruan J, Cai J, Wang H-Y[#], Lu X[#]. 2019. Genetic load and potential mutational meltdown in cancer cell populations. *Mol Biol Evol.* 36(3):541–552.
5. **Li XC**, Fay JC[#]. 2017. *Cis*-regulatory divergence in gene expression between two thermally divergent yeast species. *Genome Biol. Evol.* 9 (5):1120–1129.

Teaching Experience

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| 2014 Fall | Teaching assistant for BIO3501 “Evolution”.
Washington University in St. Louis, MO, US. |
| 2016-2018 | Mentor for undergraduate and rotation students: Camille Rieber (2016), Emery Longan (2016), Vamsi Kovelakuntla (2017), Haley Cohen (2018), Sabrina Sun (2018), Nilima Walunjkar (2018), Yingying Liang (2018). |

Presentations

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| 2018 | Poster, Society for Molecular Biology and Evolution (SMBE) 2018, Yokohama, Japan. |
| 2018 | Poster, Population, Evolutionary and Quantitative Genetics Conference (PEQG 2018), Madison, WI. |
| 2017 | Poster, Department of Biology Fall Retreat, University of Rochester. |
| 2016 | Talk, MGG/CSB/HSG retreat, Washington University in St. Louis. |
| 2016 | Poster, The Allied Genetics Conference (TAGC 2016), Orlando, FL. |
| 2015 | Poster, CIFAR Genetic Networks Workshop, St. Louis, MO. |
| 2015 | Poster, MGG/CSB retreat, Washington University in St. Louis. |
| 2015 | Talk, PMB retreat, Washington University in St. Louis. |
| 2014 | Poster, Second Annual Cell and Molecular Biology (CMB) Programs Symposium, Washington University in St. Louis. |

Honors and Awards

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| 2018 | Best Poster for Graduate Students, SMBE. |
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- 2018 Young Investigator Travel Award, SMBE.
2012 DuPont Scholarship, Peking University.
2011 Yihai Kerry Scholarship, Peking University.

Professional Memberships/ Services

- 2018- The *GENETICS* peer review training program for early career scientist members of the Genetics Society of America (GSA).
2016, 2018- Member of Genetic Society of America (GSA).
2018 Member of Society for Molecular Biology and Evolution (SMBE).

Outreach

- 2020 Translator of COVID-19 weekly reports by Nextstrain.
2018 Translator of the book: Parrington J (Author), Li X (Translator). 2018. Redesigning Life: How genome editing will transform the world (Chinese edition). CITIC publishing group, Beijing, China.
2018 Invited host of online discussion about genome editing and designer baby at 'PENGPAI Ask' (in Chinese).