

CURRICULUM VITAE

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Education

- 2004-2009 Ph. D.
Cellular and Molecular Biology
Florida State University, USA
- 1998-2001 M.S.
Biochemistry and Molecular Biology
Sichuan University, China
- 1994-1998 B.S
Biochemistry
Sichuan University, China

Publications

1. **Hong Liu**, Qianhui Qu, Ross Warrington, Allyson Rice, Ningyan Cheng, and Hongtao Yu. (2015) Mitotic Transcription Installs Sgo1 at Centromeres to Coordinate Chromosome Segregation. (*Molecular Cell*, in press)
2. Hara, K., Zheng, G., Qu, Q., **Liu, H.**, Ouyang, Z., Chen, Z., Tomchick, D.R., Yu, H. (2014) Structure of cohesin subcomplex pinpoints direct shugoshin-Wapl antagonism in centromeric cohesion. *Nat Struct Mol Biol* 2014 Aug 31. doi: 10.1038/nsmb.2880.
3. McKnight K., **Liu H.**, Wang, Y. (2014). Replicative stress induces intragenic transcription of the ASE1 gene that negatively regulates Ase1 activity. *Curr Biol* 24, 1101-1106.
4. **Liu, H.**, Jia, L., and Yu, H. (2013). Phospho-H2A and cohesin specify distinct tension-regulated Sgo1 pools at kinetochores and inner centromeres. *Curr Biol* 23, 1927-1933.

(Comment in: Chromosome segregation: Learning to let go. *Curr Biol.* 2013 Oct 7;23(19):R883-5.)

5. **Liu, H.**, Rankin, S., and Yu, H. (2013). Phosphorylation-enabled binding of SGO1-PP2A to cohesin protects sororin and centromeric cohesion during mitosis. *Nat Cell Biol* 15, 40-49.
6. Jin, F.* , **Liu, H.*** , Li, P., Yu, H.G., and Wang, Y. (2012). Loss of function of the Cik1/Kar3 motor complex results in chromosomes with syntelic attachment that are sensed by the tension checkpoint. *PLoS Genet* 8, e1002492. (* Co-first author)
7. **Liu, H.***, Jin, F*., Liang, F., Tian, X., and Wang, Y. (2011). The Cik1/Kar3 motor complex is required for the proper kinetochore-microtubule interaction after stressful DNA replication. *Genetics* 187, 397-407. (* Co-first author)
8. **Liu, H.**, and Yu, H. (2010). Mad revival of cancer. *Cell Res* 20, 394-396. (Review)
9. Liang, F., Jin, F., **Liu, H.**, and Wang, Y. (2009). The molecular function of the yeast polo-like kinase Cdc5 in Cdc14 release during early anaphase. *Mol Biol Cell* 20, 3671-3679.
10. Jin, F., **Liu, H.**, Liang, F., Rizkallah, R., Hurt, M.M., and Wang, Y. (2008). Temporal control of the dephosphorylation of Cdk substrates by mitotic exit pathways in budding yeast. *Proc Natl Acad Sci U S A* 105, 16177-16182.
11. **Liu, H.**, Liang, F., Jin, F., and Wang, Y. (2008). The coordination of centromere replication, spindle formation, and kinetochore-microtubule interaction in budding yeast. *PLoS Genet* 4, e1000262.
12. **Liu, H.**, and Wang, Y. (2006). The function and regulation of budding yeast Swe1 in response to interrupted DNA synthesis. *Mol Biol Cell* 17, 2746-275.
13. Liu, C.L., Yu, Y.R., **Liu, H.**, Zhang, X.X., Zhao G.Z. (2004). The associations of HLA-DQB1 gene with onset age and autoantibodies in type 1 diabetes. *Zhonghua Yi Xue Yi Chuan Xue Za Zhi (Chinese)*. 21(4): p. 368-71.
14. **Liu, H.**, Du, L.F. (2002). Effects of several solvents on the conformation of the 33 kD protein of photosystem 11. *Journal of Sichuan University (Natural Science Edition) (Chinese)*. 39 (1): p.127-131.

Research Experience

05/2009-present: Studying regulation of centromeric cohesion in mitosis
 Postdoctoral Fellow at Hongtao Yu' Lab
 UT Southwestern Medical Center at Dallas
 TX, USA

01/2004-04/2009: Studying regulation of chromosome segregation
Ph.D. Student at Yanchang Wang's Lab
Florida State University
FL, USA

Teaching Experience

At Florida State University

2006 (Spring) Graduate Teaching Assistant for General Microbiology Lab (MCB2004-L)

2006 (Summer) Graduate Teaching Assistant for Cell Structure and Function (PCB3134)

2007 (Summer) Graduate Teaching Assistant for Biological Science Lab (BSC2010L)

2007 (Fall) Graduate Teaching Assistant for Protein Technology (BSC3402L)

2008 (Spring) Graduate Teaching Assistant for Biological Science Lab (BSC2010L)

Research Presentations

04/2015 Retreat of Cell Regulation Program in University of Texas Southwestern Medical Center
(Title: Centromeric Transcription Installs Sgo1 in Mitosis to Coordinate Chromosome Segregation, Poster)

04/2015 Symposium of Chromosome Instability at OMRF (Title: Centromeric Transcription Installs Sgo1 in Mitosis to Coordinate Chromosome Segregation, Selected Oral talk)

12/2013 Annual Meeting of American Society of Cell Biology at New Orleans. (Title: Phospho-H2A and Cohesin Specify Distinct Tension-Regulated Sgo1 Pools at Kinetochores and Inner Centromeres).

02/2012 The 9th Postdoctoral Research Symposium at UT Southwestern Medical Center. (Title: Phosphorylation-Enabled Binding of Sgo1/PP2A to Cohesin protects Sororin and Centromeric cohesion during mitosis)

05/2011 The HHMI annual meeting Janelia Farm Research Campus. 19700 Helix Drive. Ashburn, VA. (Title: Phosphorylation of Sgo1 is essential for centromeric cohesion)

05/2008 The Cell Cycle Meeting, Cold Spring Harbor, NY. (Title: The Short S-phase Spindles in Budding Yeast during S phase Facilitate Chromosome Capture.)

08/2005 the Yeast Cell Biology Meeting, Cold Spring Harbor, NY. (Title: The Function and Regulation of Budding Yeast Swe1 in Response to Interrupted DNA Synthesis.)

Awards

2013 Alfred Gilman Award for the Excellence in Postdoctoral Research in the Department of Pharmacology at UT Southwestern Medical Center

2013 Finalist for the Excellence in Postdoctoral Research Award Presented

- by Southwestern Graduate School of Biomedical Sciences
- 2012 Poster Award. The 9th Postdoctoral Research Symposium at UT Southwestern Medical Center
- 1999-2000 The Excellent Graduate Student
- 1995-1998 The Excellent Undergraduate Student