

# Hui Chen

Web Bio

## Information

### Biography

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#### Biographical Statement

Hui Chen received her B.S. in Biochemistry Fudan University in China. She attended graduate school in University of Maryland. In 2004, she joined the Salk Institute as a postdoctoral fellow. She is currently a research associate in the Division of Nutritional Sciences at Cornell University.

### Professional

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### Research

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#### Current Research Activities

In cells, there is a balance between the production of the unfolded protein and the folding capacity of endoplasmic reticulum (ER). Under certain physiological and pathological condition, unfolded proteins are accumulated in the ER, which will result in a condition called ER stress. ER stress is sensed by three transmembrane proteins on the ER membrane. However, it is the mechanisms of sensors activation and regulation are not clear. My research are interested in identifying the mechanisms involved in this process.

### Extension

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### Education

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#### Education

B.S. 1993-1997, Fudan University, Shanghai, China

Ph.D. 1999-2004, University of Maryland Baltimore County, Baltimore, MD

### Courses

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### Websites

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### Administration

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### Publications

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#### Selected Publications

1.

**Chen, H.\*** and Qi, L. (2010) SUMO Modification Regulates Transcriptional Activity of XBP1. *Biochem. J.* 429, 95-102  
(\*, co-corresponding author)

2.

Sha, H.B., He, Y., **Chen H.**, Wang, C., Zenno, A., Shi, H., Yang, X., Zhang, X. and Qi, L. (2009). The IRE1-XBP1 pathway of the unfolded protein response is required for adipogenesis. *Cell Metabolism* 9, 556-564.

3. **Chen, H.**, Lilley C.E., Yu Q., Lee D. V., Chou J., Narvaiza I., Landau N. R. and Weitzman M. D. (2006) APOBEC3A is a Potent Inhibitor of Adeno-Associated Virus and Retrotransposons. *Curr. Biol.*, 16, 480-485

4. **Chen, H.**, Mutton L. N., Prins G. S., and Bieberich C. J. (2005) Distinct Regulatory Elements Mediate the Dynamic Expression Pattern of *Nkx3.1*. *Dev. Dyn.* 234, 961-973

5. **Chen, H.** and Bieberich C. J. (2005) Structural and Functional Analysis of Domains Mediating Interaction Between NKX-3.1 and PDEF. *J. Cell. Biochem.* 94:168-177

6. **Chen, H.**, Nandi A., Li X. and Bieberich C. J.(2002) NKX-3.1 Interacts with Prostate Derived Ets Factor and Regulates the Activity of the PSA Promoter. *Cancer Res.* 62, 338-340