

# Ying Liu

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## Education

Date	Degree	Institute	Program
2006. 8 – 2011. 6	Ph. D.	UT Southwestern Medical Center	Biochemistry
2002. 9 – 2006. 6	B. S.	Nanjing University, China	Biochemistry

## Awards and Honors

2017	HHMI International Research Scholar
2014	Harvard Chinese Life Science Annual Distinguished Research Award
2014	1000 Talents Program for Young Scholars
2011-2014	Helen Hay Whitney Research Fellowship
2011	Nominata Award, University of Texas Southwestern Medical Center
2010	Stanford Biochemistry Founders' Award for Doctoral Excellence
2010	Chinese Government Award for Outstanding Students Abroad
2008 – 2011	Sara and Frank Mcknight Student Fellowship

## Research Experience

### 2013.12-present Principal Investigator (Peking University)

Projects: 1) Mitochondrial stress response pathways and their implications in aging

2) Molecular mechanism of nutrient sensing

### 2011-2014.2 Research Fellow

Research Advisor: Dr. Gary Ruvkun (Massachusetts General Hospital & Harvard Medical School)

Project title: Unraveling the mitochondrial surveillance pathway

### 2007-2011 Graduate Student

Research Advisor: Dr. Qinghua Liu (UT Southwestern Medical Center)

Project title: Biochemical analysis of the RNAi pathway

## 2004-2006 Undergraduate Student

Research Advisor: Dr. Pingping Shen (Nanjing University)

Project title: Mechanistic study of apoptosis in mammalian cells

### Bibliography

1. Shao LW, Niu R and Liu Y\*. Neuropeptide signals cell non-autonomous mitochondrial unfolded protein response. **Cell Res.** 11 (2016) 1182-1196. (cover story)
2. Berendzen K, Durieux J, Shao L, Tian Y, Kim H, Wolff S, Liu Y and Dillin A. Neuroendocrine coordination of mitochondrial stress signaling and proteostasis. **Cell** 166 (2016) 1553-1563.
3. Liu Y, Samuel B, Breen P, and Ruvkun G. *Caenorhabditis elegans* pathways that surveil and defend mitochondria. **Nature** 508 (2014) 406-410.
4. Liu Y, Tan H, Tian H, Liang C, Chen S and Liu Q. Autoantigen La promotes efficient RNAi, antiviral response and transposon silencing by facilitating multiple-turnover RISC catalysis. **Mol. Cell** 44 (2011) 502-508.
5. Ye X\*, Huang N\*, Liu Y, Paroo Z, Huerta C, Li P, Chen S, Liu Q and Zhang H. Structure of C3PO and mechanism of Human RISC activation. **Nat. Struct. Mol. Biol.** 18 (2011) 650-657.
6. Liu Y and Liu Q. ATM signals miRNA biogenesis through KSRP. **Mol. Cell** 41 (2011) 367-368
7. Okamura K, Robine N, Liu Y, Liu Q, and Lai EC. R2D2 organizes small regulatory RNA pathways in *Drosophila*. **Mol. Cell Biol.** 31 (2011) 884-896.
8. Liu Y, Ye X, Jiang F, Liang C, Chen D, Peng J, Kinch L, Grishin N, Liu Q. C3PO, an endoribonuclease that promotes RNAi by facilitating RISC activation. **Science** 5941 (2009) 750-753.
9. Liu X, Park JK, Jiang F, Liu Y, Mckearin D, Liu Q. Dicer-1, but not loquacious, is critical for assembly of miRNA-induced silencing complex. **RNA** 12 (2007) 2324-9.
10. Weng D, Lu Y, Wei Y, Liu Y, Shen P. The role of ROS in microcystin-LR-induced hepatocyte apoptosis and liver injury in mice. **Toxicology** 232 (2007) 15-23.