

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

Academic Awards and Honors

2018	“35 Innovators under 35, China”, MIT technology Review
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 Assistant Professor, Peking University

2011.8-2013.12 Postdoc Fellow, Massachusetts General Hospital & Harvard Medical School

Research Advisor: Dr. Gary Ruvkun

2006.8-2011.8 Graduate Student, UT Southwestern Medical Center

Research Advisor: Dr. Qinghua Liu

Publications

Research Articles:

1. Ma C, Niu R, Huang T, Shao LW, Peng Y, Ding W, Wang Y, Jia G, He C, Li CY, He A and **Liu Y***. N6-methyldeoxyadenine is a transgenerational epigenetic signal for mitochondrial stress adaptation. **Nature Cell Biology** (Accepted, in press)
2. Chen J, Ou Y, Yang Y, Li W, Xu Y, Xie Y and **Liu Y***. KLHL22 activates amino-acid-dependent mTORC1 signaling to promote tumorigenesis and ageing. **Nature** 557(2018) 585-589.
3. Chen J[#], Ou Y[#], Li Y, Hu S, Shao LW and **Liu Y***. Metformin extends *C. elegans* lifespan through lysosomal pathway. **eLife** 6 (2017) e31268.
4. Shao LW, Niu R and **Liu Y***. Neuropeptide signals cell non-autonomous mitochondrial unfolded protein response. **Cell Res.** 11 (2016) 1182-1196. (cover story)
5. 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.
6. **Liu Y**, Samuel B, Breen P, and Ruvkun G. *Caenorhabditis elegans* pathways that surveil and defend mitochondria. **Nature** 508 (2014) 406-410.
7. **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.
8. 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.
9. 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.
10. **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.
11. 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.

Invited Review:

1. Wang S, Gao K and Liu Y*. UPR^{mt} coordinates immunity to maintain mitochondrial homeostasis and animal fitness. *Mitochondrion* (2017).
2. Liu Y and Liu Q. ATM signals miRNA biogenesis through KSRP. *Mol. Cell* 41 (2011) 367-368