



NAME Ying Liu
INSTITUTE Peking University
POSITION Associate Professor
YEAR OF BIRTH 1984
HOST DEPARTMENT Institute of Molecular Medicine
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EDUCATION (In reverse chronological order from latest to earliest including postdoctoral training)

| Degree | Year | Major | Institution | Mentor |
|------------------|-------------|--------------|---|---------------|
| Postdoc training | 2011-2013 | Genetics | Massachusetts General Hospital & Harvard Medical School | Gary Ruvkun |
| Ph.D. | 2006-2011 | Biochemistry | UT Southwestern Medical Center | Qinghua Liu |
| B.S. | 2002-2006 | Biochemistry | Nanjing University, China | |

PROFESSIONAL APPOINTMENTS

| Year | Position | Institution |
|----------------|--------------------------------|--|
| 2019.8-present | Associate Professor | Institute of Molecular Medicine, Peking University |
| 2019.1-present | Principal Investigator | Beijing Advanced Innovation Center for Genomics |
| 2017.9-2022.8 | International Research Scholar | Howard Hughes Medical Institute |
| 2014.1-present | Principal Investigator | Peking-Tsinghua Center for Life Sciences |
| 2013.12-2019.8 | Assistant Professor | Institute of Molecular Medicine, Peking University |

HONORS AND AWARDS

| Year | Honors and Awards |
|-------------|---|
| 2019 | 15 th China Young Female Scientist Award |
| 2019 | Young Investigator Award, Chinese Society for Cell Biology |
| 2018 | Young Investigator Award, Society of Lipid Metabolism and Bioenergetics |
| 2018 | “Innovators under 35, CHINA”, MIT Technology Review |
| 2017 | HHMI International Research Scholar |
| 2014 | 1000 Talents Program for Young Scholars, CHINA |
| 2014 | National Science Fund for Excellent Young Scholars of China |
| 2012-2014 | Helen Hay Whitney Research Fellowship |
| 2011 | Nominata Awards, UT 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 |

FULL LIST OF PUBLICATIONS (# equal contribution, *corresponding author)

Research Article:

1. Gao K, Li Y, Hu S and **Liu Y***. SUMO peptidase ULP-4 regulates mitochondrial UPR-mediated innate immunity and lifespan extension. *eLife* (2019) e41792.
2. 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* 21 (2019) 319-327.
3. 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.
4. 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.
5. Shao LW, Niu R and **Liu Y***. Neuropeptide signals cell non-autonomous mitochondrial unfolded protein response. *Cell Research* 11 (2016) 1182-1196. (cover story)
6. 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.
7. **Liu Y**, Samuel B, Breen P, and Ruvkun G*. *Caenorhabditis elegans* pathways that surveil and defend mitochondria. *Nature* 508 (2014) 406-410.
8. **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.
9. 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.
10. 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.
11. **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.
12. 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.