

Curriculum Vitae

Zhaolin Yang, Ph.D.

Personal Information

Born: 03.09.1983, Zhaoyuan, China

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Education and Research Experience

- 2016-present **Postdoc**, Cold Spring Harbor Laboratory (CSHL), New York, USA
Supervisor: Dr. Christopher Vakoc
- 2010-2016 **Ph.D.**, International PhD Program, European Molecular Biology Laboratory (EMBL), Grenoble, France
Supervisor: Dr. Ramesh Pillai
- 2008-2010 **M.S.** in Cell and Molecular Biology, Uppsala University, Sweden
- 2006-2008 **M.S.** in Biochemistry and Molecular Biology, College of Life Sciences, Zhejiang University, China
- 2002-2006 **B.S.** in Biotechnology, College of Life Sciences, Shandong University, China

Publications

1. Distinct Roles of RNA Helicases MVH and TDRD9 in PIWI Slicing-Triggered Mammalian piRNA Biogenesis and Function. Wenda JM#, Homolka D#, **Yang Z#**, Spinelli P, Sachidanandam R, Pandey RR, Pillai RS. *Developmental Cell*. 2017 Jun 19; 41(6): 623-637. (#co-first authors)
2. PIWI Slicing and Exd1 Drive Biogenesis of Nuclear piRNAs from Cytosolic Targets of the Mouse piRNA Pathway. **Yang Z#**, Chen KM#, Pandey RR, Homolka D, Reuter M, Rodino Janeiro BK, Sachidanandam R, Fauvarque MO, McCarthy A, Pillai RS. *Molecular Cell*. 2016 Jan 7;61(1):138-52. (#co-first authors)
3. Metazoan Maelstrom is an RNA-binding protein that has evolved from an ancient nuclease active in protists. #Chen KM, #Campbell E, Pandey RR, **Yang Z**,

McCarthy AA, Pillai RS. *RNA*. 2015 May;21(5):833-9. (#co-first authors)

4. Fly piRNA biogenesis: tap dancing with Tej. **Yang Z** and Pillai RS. *BMC Biol*. 2014 Oct 6;12:77.
5. RNA clamping by Vasa assembles a piRNA amplifier complex on transposon transcripts. Xiol J, Spinelli P, Laussmann MA, Homolka D, **Yang Z**, Cora E, Couté Y, Conn S, Kadlec J, Sachidanandam R, Kaksonen M, Cusack S, Ephrussi A, Pillai RS. *Cell*. 2014 Jun 19;157(7):1698-711.
6. Tudor domain containing 12 (TDRD12) is essential for secondary PIWI interacting RNA biogenesis in mice. #Pandey RR, #Tokuzawa Y, **Yang Z**, Hayashi E, Ichisaka T, Kajita S, Asano Y, Kunieda T, Sachidanandam R, Chuma S, Yamanaka S, Pillai RS. *Proc Natl Acad Sci U S A*. 2013 Oct 8;110(41):16492-7. (#co-first authors)
7. A role for Fkbp6 and the chaperone machinery in piRNA amplification and transposon silencing. Xiol J, Cora E, Kogelgruber R, Chuma S, Subramanian S, Hosokawa M, Reuter M, **Yang Z**, Berninger P, Palencia A, Benes V, Penninger J, Sachidanandam R, Pillai RS. *Molecular Cell*. 2012 Sep 28;47(6):970-9.
8. Artificial tethering of Argonaute proteins for studying their role in translational repression of target mRNAs. Eckhardt S, Szostak E, **Yang Z**, Pillai R. *Methods Mol Biol*. 2011; 725: 191-206.
9. Identification of conserved microRNAs in *Bombyx mori* (silkworm) and regulation of fibroin L chain production by microRNAs in heterologous system. Cao J, Tong C, Wu X, Lv J, **Yang Z**, Jin Y. *Insect Biochem Mol Biol*. 2008 Dec; 38(12): 1066-71.
10. RNA editing and alternative splicing of the insect nAChR subunit alpha6 transcript: evolutionary conservation, divergence and regulation. Jin Y, Tian N, Cao J, Liang J, **Yang Z**, Lv J. *BMC Evol Biol*. 2007 Jun 27;7:98.

Awards

2015-Chinese Government Awards for Outstanding Self-financed Students Abroad
2008-Outstanding Graduate Student Award, Zhejiang University.

Main Technique Expertise

Molecular biology and Biochemistry

Gene cloning, Immunoprecipitation (IP), Western blot, Northern and Southern blot, EMSA, quantitative RT-PCR, RNA library preparation, RNAi.

Biophysical and Structural biology

Surface plasmon resonance (SRP), ITC, Protein expression and purification in bacteria and insect cells, ACTA protein purification systems, crystallization.

Cell Biology

Culture of cell lines, Transient transfection, stable cell line generation, immunostaining, immunocytochemistry, confocal microscopy.

Genetics

Mice handling and dissection, *Drosophila* culture and handling.

Academic Conferences Activities

- 09.2015 CSHL meeting, Stem Cell Biology, New York, USA (poster).
- 03.2015 5th Epigenetic conference of Grenoble (talk)
- 02.2014 RNA Silencing, Keystone Symposium, Seattle, USA. (poster).
- 09.2013 The Non-Coding Genome, EMBO/EMBL meeting, Heidelberg, Germany (poster).
- 04.2013 Non-coding RNA, epigenetics and transgenerational inheritance, Cambridge, UK (poster).
- 05.2012 The 7th Microsymposium on small RNA, Basel, Switzerland.
- 10.2010 The Non-Coding Genome symposium, Heidelberg, Germany.

References:

1. **Dr. Ramesh Pillai (Ph.D thesis supervisor)**
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2. **Dr. André Verdel (Ph.D. thesis co-supervisor)**
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3. **Prof. Yongfeng Jin (M.S. thesis supervisor)**
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