

## Zhao Zhang, Ph.D.

Principal Investigator  
Staff Associate



CARNEGIE  
SCIENCE

Embryology

3520 SAN MARTIN DRIVE  
BALTIMORE, MD 21218

zzhang@carnegiescience.edu

Tel (Office) 410.246.3092 • Fax 410.243.6311

<https://emb.carnegiescience.edu/science/faculty/zhao-zhang>

## Experience

November 2014–Present, *Principal Investigator/Staff Associate*, Department of Embryology, Carnegie Institution for Science, Baltimore, MD

September 2008–May 2014, Graduate research jointly with Dr. Phillip Zamore and Dr. William Theurkauf, University of Massachusetts Medical School, Worcester, MA

## Education

Ph.D., Interdisciplinary Graduate Program, University of Massachusetts Medical School, Worcester, MA, May 2014

M.S., Cell Biology, Beijing Normal University, Beijing, China, July 2008

B.S., Biotechnology, Shandong Agricultural University, Tai-an, China, July 2005

## Award and Honor

No award. Nor Honor.

## Publications

Zhang Z, Wang J, Schultz N, Zhang F, Parhad SP, Tu S, Vreven T, Zamore PD, Weng Z, Theurkauf WE. Rhi anchors a nuclear complex that suppresses piRNA precursor splicing. **Cell**. 2014 157: 1353-1363. (PMCID:PMC4167631).

Zhang Z, Koppetsch, BS, Wang J, Tipping C, Weng Z, Theurkauf WE, Zamore PD. Antisense piRNA amplification, but not piRNA production or nuage assembly, requires the Tudor-domain protein Qin. **EMBO Journal**. 2014 33: 536-539. (PMCID:PMC3989648).

Zhang Z, Theurkauf WE, Weng Z, Zamore PD. Strand-specific libraries for high throughput sequencing of RNA (RNA-Seq) prepared without poly(A) selection. **Silence**. 2012 28;3(1)9. (PMCID: PMC3552703).

Zhang, F, Wang, J., Xu., J., Zhang, Z., Koppetsch, B., Schultz, N., Vreven, T., Meignin, C., Davis, I., Zamore, P. D., Weng, Z. and Theurkauf WE. UAP56 couples piRNA clusters to the perinuclear transposon silencing machinery. **Cell**. 2012 9;151(4):871-84. (PMCID: PMC3499805).

Zhang Z, Xu J, Koppetsch, BS, Wang J, Tipping C, Ma S, Weng Z, Theurkauf WE, Zamore PD. Heterotypic piRNA Ping-Pong requires Qin, a protein with both E3-ligase and Tudor domains. **Molecular Cell**. 2011 18;44(4):572-84 (Featured article, PMCID: PMC3236501).

Xu A, Hao J, Zhang Z, Tian T, Jiang S, Hao J, Liu C, Huang L, Xiao X, He D. 14-kDa phosphohistidine phosphatase and its role in human lung cancer cell migration and invasion. **Lung Cancer**. 2010 Jan; 67(1):48-56

Tushir JS, Zamore PD, Zhang Z. SnapShot: Mouse piRNAs, PIWI proteins, and the ping-pong cycle. **Cell**. 2009 13;139(4):830-830.e1.

Tushir JS, Zamore PD, Zhang Z. SnapShot: Fly piRNAs, PIWI proteins, and the ping-pong cycle. **Cell**. 2009; 139(3):634-634.e1.

Zhang Z<sup>\*</sup>, Chen J<sup>\*</sup>, Guo F, He L, Wu Y, Zeng C, Xiao X, He D. A high-temporal resolution technology for dynamic proteomic analysis based on <sup>35</sup>S labeling. **PLoS One**. 2008 ;3(8):e2991. (\* equal contribution, PMID: PMC2500177)