

# **Qing Deng**

**Department of Biological Sciences**

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## **EDUCATION**

2003 - 2009 • Medical College of Wisconsin, Milwaukee, WI  
*PhD, Microbiology and Molecular Genetics*

1999 - 2003 • Fudan University, Shanghai, P.R.China  
*BS, Life Sciences*

## **SCIENTIFIC EMPLOYMENT**

2014-present • Purdue University, West Lafayette, IN  
Assistant Professor, Department of Biological Sciences

2009 - 2013 • University of Wisconsin, Madison, WI  
Postdoctoral Scholar, Department of Medical Microbiology and Immunology

2003 - 2009 • Medical College of Wisconsin, Milwaukee, WI  
Research Assistant, Department of Microbiology and Molecular Genetics

## PUBLICATIONS

Peer-reviewed scientific research articles:

1. **Deng Q**, Huttenlocher A. Localized bacterial infection induces systemic activation of neutrophils through Cxcr2 signaling in zebrafish. *J Leuk Biol*, 2013 May; 93(5):761-9.
2. Berthier E, Lim FY, **Deng Q**, Guo CJ, Kontoyiannis DK, Wang CC, Beebe DJ, Huttenlocher A, Keller NP. Low-volume accessible toolbox for discovering immunosuppressive fungal secondary metabolites. *PLoS Pathogen*, 2013 Apr; 9(4):e1003289.
3. **Deng Q**, Harvie EA, Huttenlocher A. Distinct signaling mechanisms mediate neutrophil attraction to bacterial infection and tissue injury. *Cell Microbiol*, 2012 Apr; 14(4):517-28.
4. Yoo SK, **Deng Q**, Starnes TW, Huttenlocher A. Lyn is a redox sensor that mediates leukocyte wound attraction in vivo. *Nature*, 2011 Nov 20; 480(7375):109-12.
5. **Deng Q**, Yoo SK, Cavnar PJ, Huttenlocher A. Dual Roles for Rac2 in neutrophil motility and active retention in zebrafish hematopoietic tissue. *Dev Cell*. 2011 Oct 18; 21(4):735-45.
6. Yoo SK, **Deng Q**, Cavnar PJ, Wu YI, Hahn KM, Huttenlocher A. Differential regulation of protrusion and polarity by PI3K during neutrophil motility in live zebrafish. *Dev Cell*. 2010 Feb 16; 18(2):226-36.
7. **Deng Q**, Barbieri JT. Modulation of host endocytosis by the type III cytotoxin, Pseudomonas ExoS. *Traffic*. 2008 Nov; 9(11):1948-57.
8. **Deng Q**, Zhang Y, Barbieri JT. Intracellular trafficking of Pseudomonas ExoS, a Type III cytotoxin. *Traffic*. 2007 Sep 7; 8(10):1331-1345.
9. Zhang Y, **Deng Q**, Porath JA, Williams CL, Pederson-Gulrud KJ, Barbieri JT. Plasma membrane localization affects the RhoGAP specificity of Pseudomonas ExoS. *Cell Microbiol*. 2007 Sep; 9(9):2192-201.
10. Zhang Y, **Deng Q**, Barbieri JT. Intracellular localization of type III-delivered Pseudomonas ExoS with endosome vesicles. *J Biol Chem*. 2007 Apr 27; 282(17):13022-32.
11. Peterson FC, **Deng Q**, Zettl M, Prehoda KE, Lim WA, Way M, Volkman BF. Multiple WASP-interacting protein recognition motifs are required for a functional interaction with N-WASP. *J Biol Chem*. 2007 Mar 16; 282(11):8446-53.
12. Maresso AW, **Deng Q**, Pereckas MS, Wakim BT, Barbieri JT. Pseudomonas aeruginosa ExoS ADP-ribosyltransferase inhibits ERM phosphorylation. *Cell Microbiol*. 2007 Jan; 9(1):97-105.
13. **Deng Q**, Sun J, Barbieri JT. Uncoupling Crk signal transduction by Pseudomonas exoenzyme T. *J Biol Chem*. 2005 Oct 28; 280(43):35953-60.
14. Guo JH, Chen L, Chen S, Liu X, Saiyin H, **Deng Q**, Zhuang Y, Wan B, Yu L, Zhao SY. Isolation, expression pattern of a novel human RAB gene RAB41 and characterization of its intronless homolog RAB41P. *DNA Seq*. 2003 Dec; 14(6):431-5.

Review articles

1. **Deng Q**, Huttenlocher A. Leukocyte migration from a fish eye's view. *Journal of Cell Science* 2012 Sep 1;125:3949-56
2. **Deng Q**, Barbieri JT. Molecular mechanism of cytotoxicity of ADP-ribosylating toxins. *Annual Review of Microbiology*. 2008 Oct 13; 62:271-288.

## INVITED PRESENTATION

1. Department of Pharmacology, University of Illinois at Chicago, Chicago, IL (Apr 2013)

2. 19<sup>th</sup> Annual Midwest Microbial Pathogenesis Conference, Medical College of Wisconsin, Milwaukee, WI, Cxcr2 Mediates Bacteria-Induced Systemic Activation of Neutrophils (Sep 2012)
3. 10<sup>th</sup> International Conference on Zebrafish Development and Genetics, Madison, WI, Workshop, Models of Infection and Immunity in Zebrafish (Jun 2012)

### **CONFERENCES ATTENDED**

1. 8<sup>th</sup> Zebrafish Disease Models Conference, Boston, MA (Aug 2015)
2. 21<sup>st</sup> Annual Midwest Microbial Pathogenesis Conference, Chicago, IL (Sep 2014)
3. 7<sup>th</sup> Zebrafish Disease Models Conference, Madison, WI (June 2014)
4. 19<sup>th</sup> Annual Midwest Microbial Pathogenesis Conference, Medical College of Wisconsin, Milwaukee, WI (Sep 2012)
5. Kenneth B. Raper Symposium on Microbial Research, Madison, WI (Aug 2012)
6. 10<sup>th</sup> International Conference on Zebrafish Development and Genetics, Madison, WI (Jun 2012)
7. Annual Meeting of the Society for Leukocyte Biology “Infection, Inflammation, Immunity”, Kansas City, MO (Sep 2011)
8. American Society for Cell Biology 50<sup>th</sup> Annual Meeting, Philadelphia, PA (Dec 2010)
9. 9<sup>th</sup> International Conference on Zebrafish Development and Genetics, Madison, WI (Jun 2010)
10. 15<sup>th</sup> Annual Midwest Microbial Pathogenesis Conference, University of Wisconsin, Madison, WI (Sep 2008)
11. American Society for Microbiology General 107<sup>th</sup> Meeting, Metro Toronto Convention Centre, Toronto, Canada (May 2007)
12. Virulence Mechanisms of Bacterial Pathogens, International Symposium, Iowa State University, Ames, IA (Sep 2006)
13. 12<sup>th</sup> Annual Midwest Microbial Pathogenesis Conference, University of Minnesota, Twin Cities, MN (Oct 2005)

### **AWARDS**

1. Oral Abstract Award, the 19<sup>th</sup> Annual Midwest Microbial Pathogenesis Conference, 2012
2. American Society for Cell Biology 50<sup>th</sup> Annual Meeting “novel and news worthy” top pick (10 out of over 1100 abstracts were selected), 2010
3. Postdoctoral Travel Award from American Society for Cell Biology, 2010
4. Graduate Student Travel Award from Medical College of Wisconsin, 2007

### **TEACHING EXPERIENCE**

1. Instructor, Immunobiology (BIOL537, 3 credits), Department of Biological Sciences, Purdue University, 2015
2. Mentor, the Integrated Biological Sciences Summer Research Program, Institute for Biology Education, University of Wisconsin-Madison, 2011

### **AFFILIATIONS**

Sigma X, 2011-2012  
American Society for Cell Biology, 2010-2011  
American Society for Microbiology, 2005-2009