

CURRICULUM VITAE
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EDUCATION

- 2001 Postdoc in Molecular Immunology, Department of Immunobiology & Howard Hughes Medical Institute, Yale University School of Medicine, New Haven, CT.
- 1999 Ph.D. in Immunophysiology, Department of Anatomy and Physiology, College of Veterinary Medicine, Kansas State University, Manhattan, KS.
- 1995 M.S. in Nutritional Immunology, Department of Animal Science, China Agricultural University, Beijing, China.
- 1993 B.S. (with honors) in Animal Genetics, Department of Animal Science, China Agricultural University, Beijing, China.

PROFESSIONAL EXPERIENCE

- Jan. 2008-Present Adjunct Associate Professor, Department of Physiological Sciences, Center for Veterinary Health Sciences, Oklahoma State University, Stillwater, OK.
- July 2007-Present Associate Professor (with Tenure), Department of Animal Science, Oklahoma State University, Stillwater, OK.
- Jan. 2002-July 2007 Assistant Professor, Department of Animal Science, Oklahoma State University, Stillwater, OK.
- Jan. 2000-Dec. 2001 Postdoctoral Fellow, Department of Immunobiology & Howard Hughes Medical Institute, Yale University School of Medicine, New Haven, CT.
- Jan. 1996-Dec. 1999 Graduate Research Assistant, Department of Anatomy and Physiology, College of Veterinary Medicine, Kansas State University, Manhattan, KS.
- Sep. 1993-Nov. 1995 Graduate Research Assistant, Department of Animal Science, China Agricultural University, Beijing, China.

HONORS AND AWARDS

- 2007-2009 Who's Who in America, Marquis Who's Who, New Providence, NJ.
- 2007 Who's Who Among American Teachers & Educators.
- 2005 Big XII Faculty Fellowship Award, Oklahoma State University.

Glenn Zhang

- 2004 Junior Faculty Travel Award, American Association of Immunologists.
- 2000-2001 HHMI Postdoctoral Fellowship for two years, Department of Immunobiology, Yale University School of Medicine, New Haven, CT.
- 1999 Second Place Award in Basic Science, the Sigma Chapter of the Society of Phi Zeta, College of Veterinary Medicine, Kansas State University, Manhattan, KS.
- 1998 Young Investigator Travel Fellowship Award, Society for Experimental Biology and Medicine.
- 1995 Outstanding Graduate Student Award, Department of Animal Science, China Agricultural University, Beijing, China.
- 1994 Guo Zhaoming Scholarship for Outstanding Graduate Students, Department of Animal Science, China Agricultural University, Beijing, China.
- 1992 President's Award, China Agricultural University, Beijing, China (The most prestigious award for undergraduate students at CAU).
- 1991 Outstanding Undergraduate Student Award in Science and Engineering among Universities and Colleges in Beijing, China.
- 1990-1992 Academic Scholarship, First Place Award for three consecutive years, Department of Animal Science, China Agricultural University, Beijing, China.

PROFESSIONAL AND HONOR SOCIETIES

- 1998-1999 Society for Experimental Biology and Medicine
- 1998-Present American Association of Veterinary Immunologists
- 2001-Present American Association for the Advancement of Science
- 2002-Present American Association of Immunologists
- 2003-Present Sigma Xi, a National Research Society
- 2005-Present Conference of Research Workers in Animal Diseases
- 2007-Present Gamma Sigma Delta, the Honor Society of Agriculture

TEACHING ACTIVITIES

- ANSI 4843 - Applications of Biotechnology in Animal Science
- ANSI 5010 –Topics in Molecular Biology
- ANSI 5010 - Basic Molecular Biology Techniques

CURRENT RESEARCH GRANTS AND CONTRACTS

1. **Zhang, G.**, J.W. Ritchey, and C. Pope. Novel Antimicrobial Peptides as Anti-Sepsis Drugs. *Oklahoma Center for Advancement of Science & Technology (OCAST) Applied Research Program*. 09/01/2007 - 08/31/2009.
2. **Zhang, G.**, J.W. Ritchey, and O. Prakash. Enteric Defensins and Inflammatory Bowel Disease. *OCAST Health Research Program*. 08/01/2007 - 07/31/2009.
3. **Zhang, G.**, et al. Enhancing Animal Disease Resistance by Boosting Innate Immunity. *OSU Division of Agricultural Sciences and Natural Resources (DASNR) Team Initiative Program (TIP) Program*. 02/01/2008 - 12/31/2009.
4. **Zhang, G.**, et al. Functional Genomic Approaches to the Bovine Respiratory Disease Complex. *OSU DASNR TIP Program*. 08/01/2006 - 7/31/2008.

SELECTED PEER-REVIEWED PUBLICATIONS

1. **Zhang, G.**, H. Hiraiwa, H. Yasue, H. Wu, C.R. Ross, D. Troyer, and F. Blecha. 1999. Cloning and characterization of the gene for a new epithelial β -defensin: genomic structure, chromosomal localization, and evidence for its constitutive expression. *Journal of Biological Chemistry* 274: 24031-24037.
2. **Zhang, G.**, H. Wu, C.R. Ross, J.E. Minton, and F. Blecha. 2000. Cloning of porcine *NRAMP1* and its induction by lipopolysaccharide, TNF- α , and IL-1 β : role of CD14 and mitogen-activated protein kinases. *Infection and Immunity* 68: 1086-1093.
3. **Zhang, G.**, and S. Ghosh. 2001. Toll-like receptor-mediated NF- κ B activation: a phylogenetically conserved paradigm in innate immunity. *Journal of Clinical Investigation* 107: 13-19.
4. **Zhang, G.**, and S. Ghosh. 2002. Negative regulation of Toll-like receptor-mediated signaling by Tollip. *Journal of Biological Chemistry* 277: 7059-7065.
5. Zhang, D., **G. Zhang**, M.S. Hayden, M.S. Greenblatt, C. Bussey, R.A. Flavell, and S. Ghosh. 2004. A Toll-like receptor that prevents infection by uropathogenic bacteria. *Science* 303: 1522-1526.
6. Xiao, Y, A.L. Hughes, J. Ando, Y. Matsuda, J.F. Cheng, D. Skinner-Noble, and **G. Zhang**. 2004. A genome-wide screen identifies a single β -defensin gene cluster in the chicken: implications for the origin and evolution of mammalian defensins. *BMC Genomics* 5: 56.
7. Patil, A.A., A.L. Hughes, and **G. Zhang**. 2004. Rapid evolution and diversification of mammalian α -defensins as revealed by comparative analysis of rodent and primate genes. *Physiological Genomics* 20: 1-11.
8. Patil, A.A., Y. Cai, Y. Sang, F. Blecha, and **G. Zhang**. 2005. Cross-species analysis of the mammalian β -defensin gene family: presence of syntenic gene clusters and preferential expression in the male reproductive tract. *Physiological Genomics* 23: 5-17.
9. Hasenstein, J. R., **G. Zhang**, and S. J. Lamont. 2006. Analyses of five *Gallinacin* genes and the *Salmonella enterica* serovar *Enteritidis* response in poultry. *Infection and Immunity* 74: 3375-3380.
10. Aono, S., C. Li, **G. Zhang**, R. J. Kemppainen, J. Gard, W. Lu, X. Hu, D. D. Schwartz, E. E. Morrison, C. Dykstra, and J. Shi. 2006. Molecular and functional characterization of bovine β -defensin-1. *Veterinary Immunology and Immunopathology* 113: 181-190.
11. Xiao, Y., Y. Cai, Y.R. Bommineni, S.C. Fernando, O. Prakash, S.E. Gilliland, and **G. Zhang**. 2006. Identification and functional characterization of three chicken cathelicidins with potent antimicrobial activity. *Journal of Biological Chemistry* 281: 2858-2867.
12. Xiao, Y., H. Dai, Y.R. Bommineni, J. Soulages, Y.-X. Gong, O. Prakash, and **G. Zhang**. 2006. Structure-activity relationships of fowlicidin-1, a chicken cathelicidin antimicrobial peptide. *FEBS Journal* 273: 2581-2593.
13. Lynn, D. J., R. Higgs, A. T. Lloyd, C. O'Farrelly, V. Herve-Grepinet, Y. Nys, F. S. Brinkman, P. L. Yu, A. Soulier, P. Kaiser, **G. Zhang**, and R. I. Lehrer. 2007. Avian β -defensin nomenclature: a community proposed update. *Immunology Letters* 110: 86-89.
14. Bommineni, Y.R., H. Dai, Y.-X. Gong, J.L. Soulages, S.C. Fernando, U. DeSilva, O. Prakash, and **G. Zhang**. 2007. Fowlicidin-3 is an α -helical cationic host defense peptide with potent antibacterial and lipopolysaccharide-neutralizing activities. *FEBS Journal* 274: 418-428.