Guoshun Wang, D.V.M., Ph.D.

Associate Professor

Education

1988 - 1992	**Ph.D.**, Cellular and Molecular Biology, College of Life Sciences, Peking University, China.
1985- 1988	**M.S.**, Master of Science in Preventive Veterinary Medicine, College of Veterinary Medicine, Beijing Agricultural University, China.
1980 -1985	**D.V.M.**, Doctor of Veterinary Medicine with high distinction, College of Veterinary Medicine, Nanjing Agricultural University, China.

Professional Experience

2008 - present	**Associate Professor,** Departments of Medicine and Genetics Louisiana State University Health Sciences Center, New Orleans, Louisiana.
2001 - 2008	**Assistant Professor,** Departments of Medicine and Genetics Louisiana State University Health Sciences Center, New Orleans, Louisiana.
1999 - 2001	**Assistant Research Scientist**, Department of Pediatrics University of Iowa College of Medicine, Iowa City, Iowa
1998 - 1999	**Research Investigator**, Department of Pediatrics University of Iowa College of Medicine, Iowa City, Iowa
1995 - 1997	**Postdoctoral Fellow**, Department of Pediatrics University of Iowa College of Medicine, Iowa City, Iowa
1993 - 1995	**Postdoctoral Associate**, Department of Biological Sciences University of Iowa, Iowa City, Iowa.

Honors and Activities

1981-1983	Nanjing Agricultural University, Excellent Student Award
1989 -1990	Peking University, Guanhua Scholarship Award
1993	National Natural Science Award
1993	State Education Commission: Science and Technology Enhancement Award

1994 - present	Member, American Society of Cell Biology
1997 - present	Member, American Gene Therapy Society
2003 - present	Member, International Society for Stem Cell Research
2007 - present	Member, Leukocyte Biology Society
2008 - present	Member, American Association for the Advancement of Science

Selected Peer Reviewed Publications (1994-Present)

Wang G, Yeh H-I, Lin JJ-C (1994). Characterization of cis-regulating elements and trans-acting factors of the rat cardiac troponin T gene. *J. Biol. Chem*. 269:30595-30603.

McCray PB, **Wang G**, O'Brien L, Davidson BL, Thomas P (1996). Proliferation indices of pulmonary epithelia during human and ovine lung development: Gene transfer targets for integrating vectors. *Cell Vision* 4(1):42-49.

McCray PB, **Wang G**, Kline J, Zabner J, Chada S, Jolly DJ, Chang S, Davidson BL (1997). Alveolar macrophages inhibit retrovirus-mediated gene transfer to airway epithelia. *Human Gene Therapy* 8:1087-1093.

Wang G, Williamson R, Muller G, Thomas P, Davidson BL, McCray PB (1998). Ultrasound-guided gene transfer to fetal tissue in utero. *Fetal Diagnosis and Therapy* 13:197-205.

Wang G, Davidson BL, Melchert P, Slepushkin VA, van Es H, Bodner M, Jolly D, McCray PB (1998). Efficient gene transfer to differentiated human airway epithelia with recombinant amphotropic and xenotropic retroviruses. *J Viol* 72(12):9818-26.

Wang G, Slepushkin V, Bodner M, Zabner J, van Es H, Thomas P, Jolly DJ, Davidson BL, McCray PB (1999). Keratinocyte growth factor induced epithelial proliferation facilitates retroviral-mediated gene transfer to pulmonary epithelia in vivo. *J. Gene Med.* 1:23-30.

Graeff RW, **Wang G**, McCray PB (1999). KGF and FGF-10 stimulate liquid secretion in human fetal lung. *Pediatric Research* 46(5):1-7.

Wang G, Slepushkin VA, Zabner J, Keshavjee S, Johnston JC, Sauter SL, Jolly DJ, Dubensky T,Davidson BL, McCray PB (1999). Persistent transduction of non-dividing airway epithelia by feline immunodeficiency virus vectors. *J. Clin. Invest.* 104:R49-R56.

Jia HP, Mills JN, Barahmand-Pour F, Nishimura D, Mallampali RK, **Wang G**, Wiles K, Tack BF, Bevins CL, McCray PB (1999). Molecular cloning and characterization of rat genes encoding homologues of human beta-defensins. *Infect Immun.* 67(9):4827-33.

Wang G, Zabner J, Slepushkin VA, Deering C, Shao J, Bodner M, Jolly DJ, Davidson BL, McCray PB (1999). Calcium chelation enhances gene transfer to differentiated human airway epithelia by opening epithelial junctions. *Am. J. Respir. Cell Mol. Biol.* 2000 Feb.22:129-138.

Wang G, Deering C, Macke M, Shao J, Burns R, Blau D, Holmes K, Davidson BL, Perlman S, McCray PB (2000). Human Coronavirus 229E infects polarized airway epithelia from the apical surface. *J. Viol.* 74(19):9234-9239.

Wang G, Sinn P, McCray PB (2000). Development of retroviral vectors for gene transfer to airway epithelia. *Cur. Opi. in Mol. Ther.* 2(5):497-506.

Slepushkin VA, Staber PD, **Wang G**, McCray PB, Davidson BL (2001). Infection of human airway epithelia with H1N1, H2N2, and H3N2 influenza A virus strains. *Molecular Therapy* 3(3):1-8.

Sanlioglu S, Williams CM, Samavati C, Butler NS, **Wang G,** McCray PB, Ritchie TC, Hunninghake GW, Zandi E, Engelhardt J (2001). Lipopolysaccharide Induces Rac1-dependent Reactive Oxygen Species Formation and Coordinates Tumor Necrosis Factor-Secretion through IKK Regulation of NF-kB . *J. Biol. Chem.* 276: 30188-30198.

Wang G, Sinn P, Zabner J, McCray PB (2002). Gene transfer to airway epithelia using feline immunodeficiency virus-based lentivirus vectors. *Methods in Enzymology* 346:500-14.

Wang G, Williams G, Xia H, Hickey M, Shao J, Davidson BL, McCray PB (2002). Apical barriers to airway epithelial cell gene transfer with amphotropic retroviral vectors. *Gene Therapy* 9:922-931.

Lanson NA, Friedlander PL, Schwarzenberger P, Kolls JK, **Wang G** (2003). Replication of an adenoviral vector controlled by the human telomerase transcriptase promoter causes tumor-selective tumor lysis. *Cancer Research* 63(22):7733-7740.

Weiss DJ, Beckett T, Bonneau L, Young J, Kolls JK, **Wang G** (2003). Transient Increase in lung epithelial tight junction permeability: An additional mechanism for enhancement of lung transgene expression by perfluorochemical liquids. *Molecular Therapy* 8(6):927-935.

Vaidyanthan G, Cismowski M, **Wang G**, Vincent TS, Catling AD, Hill SM, Brown KD, Lanier SM (2004). Influence of the ras-related protein AGS1/RASD1 on cell growth. *Oncogene* 23:5858-5863.

Frisk A, Schurr JR, **Wang G**, Bertucci D, Marrero L, Schurr MJ (2004). Transcriptome analysis of pseudomonas aeruginosa after interaction with human airway epithelial cells. *Infection and Immunity* 72 (9):5433-5435.

Wang G, Bunnell BA, Painter RG, Quiniones BC, Tom S, Lanson NA,Spees JL, Bertucci D, Peister A, Weiss DJ, Valentine VG, Prockop DJ, Kolls JK. (2005) Adult stem cells from bone marrow stroma differentiate into airway epithelial cells: potential therapy for cystic fibrosis. *Proc. Natl. Acad. Sci.* 102(1):186-191.

Painter, RG, Lanson, NA, Jin, Z, Park, F, and **Wang, G** (2005). Conditional expression of a suicide gene by the telomere reverse transcriptase promoter for potential posttherapeutic deletion of tumorigenesis. *Cancer Sci* 96: 607-613.

Painter, RG and **Wang, G** (2006). Direct measurement of free chloride concentrations in the phagolysosomes of human neutrophils. *Anal Chem* 78: 3133-3137.

Painter RG, Valentine VG, Lanson NA, Leidal K, Zhang Q, Lombard G, Thompson C, Viswanathan A, Nauseef WM, Wang G and **Wang G** (2006). CFTR expression in human neutrophils and the phagolysosomal chlorination defect in cystic fibrosis.
Biochemistry 45(34):10260-10269.

Flotte TR, Ng P, Dylla D, McCray PB, **Wang G**, Kolls JK and Hu J (2006). Gene and Cell Therapies for Treatment of Cystic Fibrosis. *Molecular Therapy* 15(2):229-241.

Viswanathan A, Painter RG, Lanson NA and **Wang G** (2007). Functional expression of N-formyl peptide receptors in human bone marrow-derived mesenchymal stem cells. *Stem Cells* 25:1263-69.

Bonvillian RW, Valentine VG, Lombard GL, LaPlace SG, Dhillon G and **Wang G** (2007). Postoperative infections in cystic fibrosis and non-cystic fibrosis patients after lung transplantation. *J Heart Lung Transplant.* 26:890-7.

Valentine VG, Bonvillain RW, Lombard GA, LaPlace SG, Dhillon GS and **Wang G** (2008). Infections in lung allograft recipients: ganciclovir era. *J Heart Lung Transplant.* J Heart Lung Transplant. 27(5):528-35.

Painter RG, Bonvillian RW, Valentine VG, Lombard GA, LaPlace SG, Nauseef WM, **Wang G** (2008). The role of chloride and CFTR in killing of *Pseudomonas aeruginosa* by normal and CF neutrophils. *J Leukoc Biol.* 83(6):1345-53.