

Rubin Zhang, MD, FASN
Associate Professor of Clinical Medicine and Surgery
Medical Director, Kidney and Pancreas Transplant
Director, Transplant Nephrology Fellowship

Fellowship:

Nephrology, Tulane University School of Medicine, 2000

Residency:

Internal Medicine, Tulane University School of Medicine, 1998

Education:

MD, Nantong University Medical School, Nantong, PRC, 1985

Post-doctoral Fellow & Scientist, University of California, San Francisco, 1993

Certification:

Internal Medicine, American Board of Internal Medicine, 1998, 2008-recertified

Nephrology, American Board of Internal Medicine, 2000

Research Interests:

Water Channel, Hypertension, Kidney and Pancreas Transplant

Lecture Titles:

1. Cross-Match and Allograft Rejections
2. The Status of Kidney Transplantation, Immunosuppressive Medicines
3. Medical Management of Kidney Transplant Recipients
4. Recurrent Diseases After kidney Transplantation
5. ABO and HLA Incompatible Kidney Transplant

Publications:

1. Zhang R, Paramesh AS, Florman SS, Yau CL, Balamuthusamy S, Krane, K and Slakey DP. Long-Term Outcome of Adult Patients Transplanted with Single Pediatric Donor Kidneys: How Young Is Too Young? (2009). CJASN. Accepted
2. Balamuthusamy S, A Paramesh, R Zhang, S Florman, R Shenava, T Islam, J Wagner, M Killackey, B Alper, E Simon and D Slakey. The Effects of body mass index (BMI) on graft survival in adult recipients transplanted with single pediatric kidneys (2009). Am. J. Neph. 29(2):94-101.
3. Paramesh AS, Zhang R, Yau CL, Killackey MT, Balamuthusamy S, Alper BA, Eric Simon, Slakey DP and Florman SS. A Comparison of Long-term Outcomes of Single Pediatric Kidney Transplant between African-American and Non African-American Adults (2009). Clin. Neph. Accepted

4. Zhang, R., S Florman, A Paramesh, T Islam, A Zarifian, M Killackey, B Alper, E Simon and D Slakey. Pancreas Transplantation in African-American Patients Using Basiliximab Induction (2009). Am. J. Med. Sci. In press
5. Balamuthusamy S, Zhang R and Batuman V. Myeloma Kidney with Isolated Tubulointerstitial Light Chain Deposition in a Renal Allograft (2009). Clin. Transplant. In press
6. Liao J, Francis J, Richards R, Zhang R and Reisin E. Tesaglitazar, a Dual PPAR α/β Agonist, Improves Metabolic Abnormalities and Reduces Renal Injury in Obese Zucker Rats (2009). Submitted
7. Zhang, R., B. Alper, E. Simon, S. Florman, and D. Slakey. Management of Metabolic Bone Diseases in Kidney Transplant Recipients (2008). Am. J. Med. Sci. 335(2):120-125.
8. Slakey DP, A Altman, J Bhutto, A Paramesh, M Killackey, B Alper, R Zhang and S Florman: Psychosocial Aspects of Laparoscopic Donor Nephrectomy: Donor Impressions (2008). Dialysis and Transplantation. 37(5):160-165.
9. Paramesh, A., M. Killackey, R. Zhang, B. Alper, D. Slakey and S. Florman. Living Donor Kidney Transplantation – Medical, Legal and Ethical Considerations (2007). South. Med. J. 100(12):1208-1213.
10. Zhang, R., S. Florman, S. Devidoss, A. Zarifian, L. Yau, A. Paramesh, M. Killackey, B. Alper, V. Fonseca and D. Slakey. The Comparison of Long-Term Survivals of Simultaneous Pancreas-Kidney Transplant between African American and Caucasian Recipients with Basiliximab Induction Therapy (2007). Am. J. Transplant. 7:1815-1821.
11. Zhang, R., S. Florman, S. Devidoss, A. Zarifian, M. Killackey, A. Paramesh, V. Fonseca, V. Batuman, L. Hamm and D. Slakey. The Long-Term Survival of Simultaneous Pancreas and Kidney Transplant with Basiliximab Induction Therapy (2007). Clin. Transplant. 21:583-589.
12. Paramesh, A., R. Zhang, V. Fonseca, M. Killackey, B. Alper, D. Slakey and S. Florman. Pancreas Transplantation – A Controversy in Evolution (2007). J La State Med Soc. 159:319-329.
13. Zhang, R., J Lia, S Morse, S Donelon and E. Reisin. Kidney Disease in the Metabolic Syndrome (2005). Am. J. Med. Sci. 330(6):319-325.
14. Morse, S., R Zhang, V Thakur, and E. Reisin. Hypertension and the Metabolic Syndrome (2005). Am. J. Med. Sci. 330(6):303-310.
15. Zhang, R. P. Kumar, T. Ramcharan and E. Reisin. Kidney Transplantation: the evolving challenges (2004). Am. J. Med. Sci. 328(3): 156-161.

16. Zhang, R. and E. Reisin. Regression of Left Ventricular Hypertrophy is a Key Goal of Hypertension Management (2003). *Curr Hypertens Rep.* 5:301-308.
17. Zhang, R. P. Boudreaux, D. Frey and E. Reisin. Hypertension After Kidney Transplantation: impact, pathogenesis and therapy (2003). *Am. J. Med. Sci.* 325(4):202-208.
18. Morse S. A. Dang, V. Thakur, R. Zhang and E. Reisin. Hypertension in Chronic Dialysis Patients (2003). *Am. J. Med. Sci.* 325(4):194-201.
19. Zhang, R., V. Thakur and E. Reisin. Renal and Cardiovascular Considerations for the Nonpharmacological and Pharmacological Therapies of Obesity-Hypertension (2002). *J. Human Hypertens.* 16:819-827.
20. Zhang, R., J.W. Zhang and H. Szerlip. Endocarditis and hemorrhagic stroke caused by *Cunninghamella bertholletiae* infection after kidney transplantation (2002). *Am. J. Kid. Dis.* 40(4):842-846.
21. Thakur, V., R. Zhang, S. Morse and E. Reisin. Obesity, Hypertension, Kidney and Heart (2002). *Cardiovascular Reviews and Reports* 23:213-219.
22. Zhang, R. S. Smith and V. Batuman. Acute tubulointerstitial nephritis following wasp stings (2001). *Am. J. Kid. Dis.* 38(6):E33.
23. Zhang, R. And E. Reisin. Obesity hypertension: the effects on cardiovascular and renal systems (2000). *Am. J. Hypertens.* 13(12):1308-1314.
24. Zhang, R. and H. Szerlip. Reemergence of Sucrose Nephropathy: acute renal failure caused by high-dose intravenous immune globulin therapy (2000). *South. Med. J.* 93(9):901-904.
25. Zhang, R., W. Skach, H. Hasegawa, A. N. van Hoeck and A. S. Verkman (1993). Cloning, functional analysis and cell localization of a kidney proximal tubule water transporter homologous to CHIP28. *J. Cell Biol.* 120(2):359-369.
26. Zhang, R., A.N. van Hoeck and A.S. Verkman (1993). A point mutation at cysteine 189 blocks the water permeability of rat kidney water channel CHIP28k. *Biochemistry.* 32(12):2938-2941.
27. Hasegawa, H., R. Zhang, A. Dohrman and A.S. Verkman (1993). Tissue-specific expression of mRNA encoding rat CHIP28k water channel by in situ hybridization. *Am. J. Physiol.* 264(Cell Physiol.33):C237-C245.
28. Verkman, A.S. and R. Zhang (1993). Identification and molecular cloning of water transporting protein. In *Isotonic Transport In Leaky Epithelia*. Alfred Benzon Symposium 34, H.H. Ussing, etc. eds. Munksgaard, Copenhagen, Denmark. 388-395.

29. Verkman, A.S. and R. Zhang (1991). The vasopressin sensitive water channel in toad bladder: functional localization in endosomes and mRNA expression in *Xenopus* oocytes. In Vasopressin, S. Jard and R. Jamison, eds. John Libbey Eurotext Ltd. 208:85-93.
30. Zhang, R., S. Alper, B. Thorens and A.S. Verkman (1991). Evidence from oocytes expression that the erythrocyte water channel is distinct from Band 3 and the glucose transporter. *J. Clin. Invest.* 88:1553-1558.
31. Tsai, S.T., R. Zhang and A.S. Verkman (1991). High channel-mediated water permeability in rabbit erythrocytes: characterization in native cells and expression in *Xenopus* oocytes. *Biochemistry.* 30(8):2087-2092.
32. Zhang, R. and A.S. Verkman (1991). Water and urea transport in *Xenopus* oocytes: expression of mRNA from toad urinary bladder. *Am. J. Physiol.* 260 (Cell Physiol. 29):C26-C34.
33. Zhang, R., K. Logee and A.S. Verkman (1990). Expression of mRNA coding for kidney and red cell water channels in *Xenopus* oocytes. *J. Biol. Chem.* 265(26):15375-15378.
34. Zhang, R. and A.S. Verkman (1990). Urea transport in freshly isolated and cultured cells from rat inner medullary collecting duct. *J. Membrane Biol.* 117:253-261.

Meeting Presentations / Abstracts:

1. Zhang, R., S. Florman, A. Paramesh, A. Zarifian, M. Killackey, B. Alper, E. Simon and D. Slakey. Pancreas Transplantation in African-American Patients Using Basiliximab Induction (2008). *Am. J. Transplant.*
2. Blumberg, E, B Barin, R Bloom, M Roland, J Olson, R Wali, A Guasch, R Zhang, M Pavlakis and P Stock. BKV Nephropathy in HIV Positive Renal Transplant Recipients(2008). *Am. J. Transplant.*
3. Paramesh A, M Killackey, B Alper, R Zhang, S Florman and D Slakey. Laparoscopic Nephrectomy: Long Term Donor Perceptions (2007). *Am. J. Transplant*
4. Devidoss S, A Zarifian, S Florman, D Slakey and R Zhang. The Long-Term Survival of Simultaneous Pancreas-Kidney Transplantation with Simulect-Induction Therapy: Seven-Year Outcomes (2006). *J. Am. Soc. Neph.*
5. Liao J, R Rchard, R Zhang and E Reisin. Tesaglitir, a dual PPAR agonist, improves metabolic abnormalities and attenuates microalbuminuria in Obese Zucker rats. (2006). *J. Am. Soc. Neph.*
6. Liao J, R Rchard, R Zhang and E Reisin. Effect of a modified low calorie diet on metabolic changes and kidney histology of young obese Zucker rat (2005). *J. Am. Soc.*

Neph.

7. Zhang, R., G Butterbaugh, EA Aguilar, J Liao and E Reisin. Pre-hypertension is associated with metabolic risk factors and early cardiovascular disease in clinically healthy young professionals (2005). *Am. J. Hypertens.* 18(5): P-427
8. Zhang, R., G Butterbaugh, EA Aguilar, J Liao and E Reisin. Ambulatory blood pressure is superior to office blood pressure in predicting early vascular disease in non-hypertensive health young professionals (2005). *Am. J. Hypertens.* 18(5): A161.
9. Zhang, R., G Butterbaugh, EA Aguilar, J Liao and E Reisin. Sun-clinical inflammation contributes to the early development of cardiovascular disease in the non-hypertensive young healthy professionals (2005). *J. Invest. Med.* 53 (1): S200.
10. Zhang, R., EA Aguilar, J Liao, G Butterbaugh and E Reisin. Non-dipping and mental stress-induced hormonal and hemodynamic changes as the risk of development of hypertension and cardiovascular disease (2004). *Am. J. Hypertens.* 17(5):S138.
11. Kumar, P. R. Zhang, P. Boudreaux and G. Vitalpur. Oral acyclovir desensitization in a renal transplant patient (2003). *J. Invest. Med.* 51(1).
12. Zhang, R. (1998). Acanthocytosis with facial and vocal tics: a case report and literature review. 1998 Clinical Vignette Competition, ACP 79th Annual Session at San Diego, CA.
13. Smith, K.H., R. Zhang and L.L. Hamm (1996). Cl / HCO₃ exchange in M-1 collecting duct cells. *J. Am. Soc. Neph.* 7(9):1255.
14. Zhang, R., K.H. Smith and L.L. Hamm (1995). Opposite effects of low K diet on the expression of gastric and colonic H, K ATPase in rabbit cortical collecting duct. *J. Am. Soc. Neph.* 6(3):318.
15. Smith, K.H., T.G. Nguyen, R. Zhang and L.L. Hamm (1995). H-monocarboxylate transport in proximal cells. *J. Am. Soc. Neph.* 6(3):362.
16. Zhang, R., K.H. Smith and L.L. Hamm (1994). Expression of colonic isoform of H, K ATPase α -subunit mRNA in M1 culture model of cortical collecting duct. *Am. Soc. Neph.* 5(3):267.
17. Zhang, R., K.H. Smith and L.L. Hamm (1994). Expression of gastric and colonic isoforms of H, K ATPase α -subunits in rabbit kidney and cortical collecting duct. *Am. Soc. Neph.* 5(3):267.
18. Smith, K.T., R. Zhang and L.L. Hamm (1994). Anion transport in M1 culture model of cortical collecting duct (CCD). *J. Am. Soc. Neph.* 5(3):287.

19. Zhang, R., A.N. van Hoek and A.S. Verkman (1993). A point mutation at cysteine 189 blocks the water permeability of rat kidney water channel CHIP28k. *Biophys. J.* 64(2):A124. Biophysics Society meeting in Chicago.
20. Zhang, R., H. Hasegawa and A.S. Verkman (1992). Functional analysis of a kidney water channel homologous to CHIP28: cDNA cloning, expression, protein reconstitution, freeze-fraction EM and in situ hybridization. *Mol. Biol. Cell.* 3:302a.
21. Hasegawa, H., R. Zhang and A.S. Verkman (1992). Localization of mRNA encoding rat kidney water channel CHIP28k by in situ hybridization. *J. Am. Soc. Neph.* 3(3):794.
22. Zhang, R., W. Skach and A.S. Verkman (1992). Cloning, translation and expression of proximal tubule water channel homologous to CHIP28. *J. Am. Soc. Neph.* 3(3):801.
23. Zhang, R., K.Fushimi, D. Lei and A.S.Verkman (1992). Expression cloning of water transporting proteins from rat kidney papilla. *J. Am. Soc. Neph.* 2(3):730.
24. Zhang, R., S.T. Tsai, S. Alper and A.S. Verkman (1991). Water channel mRNA expression in *Xenopus* oocytes: evidence that the red cell water channel is not Band 3. *Biophys. J.* 59:642a.
25. Zhang, R., S.L. Alper, B. Thorens and A.S. Verkman (1991). Evidence from oocytes expression that the erythrocyte water channel is distinct from Band 3 and the glucose transporter. *Clin. Res.* 39:191A.
26. Zhang, R. and A.S. Verkman (1990). Expression of mRNA coding for kidney, toad bladder and red cells water and urea transporters in *Xenopus* oocytes. *J. Am. Soc. Neph.* 1(4): 681.