

## Jian Wu, B.M., M.S., Ph.D.

<b>Clinical Interests</b>	Dr. Wu is a faculty member in the Department of Internal Medicine, Transplant Research Program, School of Medicine, and a member of the Graduate Group of Comparative Pathology, UC Davis. His major research interests are to develop innovative therapeutic approaches for liver injury and fibrosis, including pharmacological, molecular and gene therapy, as well as cell-based therapy and organ-specific or cell type-specific targeting drug or gene delivery. He uses RNA interference (RNAi) strategies to develop clinically applicable therapeutics for the treatment of liver injury and fibrosis. His recent studies have focused on delivering antioxidative genes for the improvement of donor organ quality as well as graft function and survival.
<b>Title</b>	Adjunct Professor
<b>Specialty</b>	Gastroenterology and Hepatology, Internal Medicine
<b>Department</b>	Internal Medicine
<b>Division</b>	Gastroenterology and Hepatology
<b>Languages</b>	Chinese (Mandarin)
<b>Education</b>	B.M., Nantong University Medical College, Nantong, Jiangsu Province, 1983 M.S., Southeast University Medical College, Nanjing, Jiangsu Province, 1986 Ph.D., University of Umea Faculty of Medicine, Umea, 1994
<b>Residency</b>	Southeast University Medical College, Nanjing, Jiangsu Province, 1983-1986
<b>Fellowships</b>	Southeast University Medical College, Nanjing, Jiangsu Province, 1986-1988 Thomas Jefferson University, Jefferson Medical College, Philadelphia, Pennsylvania, 1995-1999
<b>Professional Memberships</b>	American Association for the Study of Liver Diseases (AASLD) American Society of Gene Therapy (ASGT) International Society of Stem Cell Research (ISRCR)
<b>Honors and Awards</b>	Innovative Development Award by the Academic Federation, UC Davis, 2006 Exploratory Research Award (R21) by the National Institute of Diabetes, Digestive and Kidney Diseases (NIDDK), 2005 Research Award from the American Cancer Society, 2003 Liver Scholar Award by the American Liver Foundation, 2000 National Service Research Award (NSRA) from the National Institutes of Health, the National

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Institute of Diabetes, Digestive and Kidney Diseases (NIDDK), 1997

### Select Recent Publications

- 2009 Kim JW, Wu J. RNAi, a powerful research tool and potential molecular therapy for liver diseases. In Yamada K & Hayashi S Eds: *Small Interfering RNA: New Research*. ISBN: 978-1-60692-158-6. Nova Science Publishers, Inc. Hauppauge, NY. 2009: in press.
- 2009 Nyunt T, Dicus CW, Yappert MC, Huser TR, Nantz MH, Wu J. Physico-chemical studies of poly(Cationic) lipid and polylipid nanoparticles for liver-based gene delivery. *Bioconjugate Chemistry* 2009; in press.
- 2009 Sangjeong Yoon, Tae-Hun Kim, Arutselvan Natarajan, Si-Si Wang, Moonseok Choi, Jian Wu, Mark A Zern, Senthil K Venugopal. Acute liver injury up-regulates microRNA-491\_5p in mice, and its over-expression sensitizes Hep G2 cells for TNF-a-induced apoptosis. *Liver International* 2009; in press.
- 2009 Senthil K Venugopal, Joy Jiang, Tae-Hun Kim, Yong Li, Si-si Wang, Natalie J Torok, Jian Wu, Mark A Zern. Liver fibrosis causes down-regulation of miRNA-150 and miRNA-194 in hepatic stellate cells and their over-expression causes decreased stellate cell activation. *Am J Physiol* 2009; in press.
- 2009 Tatsukawa H, Fukaya Y, Frampton F, Martinez-Fuentes A, Suzuki K, Kuo K-F, Nagatsuma K, Shimokado K, Okuno M, Wu J, Iismaa S, Matsuura T, Tsukamoto H, Zern MA, Graham R, Kojima S. Role of trans glutaminase 2 in liver injury via crosslinking and silencing of transcription gactor, *Spl. Gastroenterology* 2009; 136:1783-95.
- 2009 Wu J, Hecker JH, Chiamvimonvat N. Antioxidant gene transfer for ischemic diseases. *Advanced Drug Delivery Reviews*. 2009; 61: 351-363.
- Jian Wu, Jinsheng Guo. Autoimmune Hepatitis – Treatment Progresses. In Baoen Wang, Dingfeng Zhang et al. Edit: *Contemporary Hepatology, 2nd Edition*. Beijing: Science Press, Chinese Academy of Science, 2009: in press (senior author).
- Kim JW, Wu J. RNAi, a powerful research tool and potential molecular therapy for liver diseases. In Yamada K & Hayashi S Eds: *Small Interfering RNA: New Research*. ISBN: 978-1-60692-158-6. Nova Science Publishers, Inc. Hauppauge, NY. 2009: in press.
- 2008 Choi MS, Catana AM, Wu J, Borowsky AD, Gambhir SS, Gupta S, Zern MA. Use of bioluminescent imaging to assay the transplantation of immortalized human fetal hepatocytes into mice. *Cell Transplant* 2008; 17:899-909.
- 2008 Ma XC, Duan YY, Catana AM, Jung C, Wu J, VandeVoort C, Zern MA. Differentiation of rhesus monkey embryonic stem cells along hepatocyte lineage. *Cloning & Stem Cells* 2008; 10(4): 485-94.

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2008 Pingguo Liu, Songqing He, Yanhong Zhang, Jian Wu. Protective Effects of Apocynin and Allopurinol on Ischemia/Reperfusion-Induced Liver Injury in Mice. *World Journal of Gastroenterology* 2008; 14(18): 2832-2837 (senior author).

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