

**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel in the order listed for Form Page 2.  
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME		POSITION TITLE	
Hao, Chuan-Ming		Professor of Medicine	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Nantong Medical College	MD	1982	Nantong Medical College
Shanghai Medical University	PhD	1990	Nephrology
Vanderbilt University	Post-Doc	1994-2000	Nephrology

**A. Positions and Honors.**

- 1983-1984 Resident doctor, Internal Medicine, the Affiliated Hospital of Nantong Medical College. Nantong, P.R. China.
- 1990-1994 Attending Physician, Division of Nephrology, Hua Shan Hospital, Shanghai Medical University. Shanghai, P.R. China.
- 1994-2000 Research fellow, Division of Nephrology, Vanderbilt University Medical Center, Nashville, TN. Supervisor: Matthew Breyer
- 2000-2005 Research Assistant Professor of Medicine, Division of Nephrology, Vanderbilt University Medical Center, Nashville, TN.
- 2005-2010 Assistant Professor of Medicine (Tenure track), Division of Nephrology, Vanderbilt University, Nashville, TN
- 2010- Professor of Medicine, Division of Nephrology, Huashan Hospital, Fudan University, Shanghai, China
- 2010.2- Chief, Division of Nephrology, Huashan Hospital, Fudan University

**Professional organizations and activities:**

- The President, Chinese Society of Renal Physiology
- Standing Committee Member, Chinese Society of Nephrology
- Committee member, CME committee, Asian-Pacific Society of Nephrology
- Committee member, The best practice recommendation committee, Asian-Pacific Society of Nephrology
- Member of ISN
- Active member of ASN
- Committee member, Nominating committee, ASN (2018)
- Fellow of the ASN
- Regular member of American Physiological Society

**Review responsibilities:**

- Editorial Board: American Journal of Physiology – renal physiology
- Associate Editor: Kidney Disease

- Reviewer, ASN abstracts, 2020
- Reviewer, Natural Science Foundation of China
- Reviewer (ad hoc), NIH/NIDDK, Pathobiology of kidney disease study section (2005).
- Committee Member, American Heart Association’s Region 1&2 Cardiorenal Committee
- Reviewer (ad hoc), NIH/NIDDK, ZRG1DKUS-Bo2M Special Emphasis Panel, (2009)
- Reviewer (ad hoc), NIH/NIDDK, ZRG1DKUS-B02M2010 (2009)

**Invited speaker (selected, international)**

2019. 12. 14 KDIGO Controversies Conference on Optimal Anemia Management in CKD: "Update on randomized clinical trials in anemia of CKD" Barcelona

2019. 11. 09 An Evening with KDIGO: Spotlight on Anemia Management in CKD during ASN "What's new on the horizon" Washington DC

2019. 4. 14 2019 WCN ISN CME. "Advances in Anaemia Management: Changing Treatment Paradigms" Melbourne, Australia

2017. 5. 27, The 60th Annual Meeting of the Japanese Society of Nephrology, "Dialysis registration in China" Sendai, Miyagi, Japan

2017. 3. 29, AFCKDI Meeting 37th PSN annual convention: "Halting CKD progression through diet modification" Manila

2015. 5. 30, the 52nd Congress of the ERA-EDTA. "Diabetic nephropathy: a growing challenge in China" London, UK

2014. 7. 4, Asian Morning session in the 57<sup>th</sup> Annual Meeting of the Japanese Society of Nephrology: "Challenge in the treatment of diabetic nephropathy" Tokyo, Japan

**B GRANT AWARDS: (current)**

Current:

Natural Science Foundation of China,  
"Role of NAD<sup>+</sup>/SIRT1AKI in the aged"  
81930120, 2020 - 2025  
Role : PI

Natural Science Foundation of China,  
"Tenascin C in Renal Fibrosis",  
81520108006, 2016-01 - 2021-12  
Role : PI

**C. Publications (selected from 120 publications).**

1. \* **Chuan-Ming Hao**, Fiona Yull, M. Komhoff, L Kerr and Matthew Breyer. Dehydration activates an NF-kappaB-driven, COX2-dependent survival mechanism in renal medullary interstitial cells. *J Clin Invest.* 2000 Oct;106(8):973-82. (Corresponding author).
2. \* Jing Chen, Min Zhao, Reena Rao, Hiroyasu Inoue, and **Chuan-Ming Hao**. C/EBP $\beta$  binding site is required for NFkB mediated COX2 expression following hypertonic stress in renal medullary interstitial cells. *J Biol Chem.* 2005 Apr 22;280(16):16354-9 (Corresponding author).
3. YouFei Guan, **Chuanming Hao**, et al. Thiazolidinediones expand body fluid volume through PPARgamma stimulation of ENaC-mediated renal salt absorption. *Nat Med.* 2005 Aug;11(8):861-6.
4. \* Jing Chen, Scott Boyle, Min Zhao, Keiko Takahashi, Linda Davis, Mark DeCaestecker, Takamune Takahashi, Matthew D. Breyer and **Chuan-Ming Hao**. Differential Expression of the intermediate filament protein nestin during renal development and its localization in adult podocytes. *J Am Soc Nephrol.* 2006 May;17(5):1283-91 (Corresponding author)
5. \* **Hao CM** and Matthew Breyer. The physiologic and pathophysiologic roles of lipid mediators in the kidney.

**Kidney Int.** 2007 Jun;71(11):1105-15. (Corresponding author)

6. \* **Hao CM** and Breyer MD. Physiological regulation of prostaglandins in the kidney. *Annu Rev Physiol.* 2008;70:357-77. Review (Corresponding author)
7. Wenjuan He<sup>1</sup>, Yingying Wang<sup>1</sup>, Ming-Zhi Zhang<sup>1</sup>, Li You<sup>1</sup>, Hong Fan<sup>1</sup>, Linda S. Davis<sup>1</sup>, Roy Zent<sup>1</sup>, Raymond C. Harris<sup>1</sup>, Matthew D. Breyer<sup>2</sup> and **Chuan-Ming Hao**<sup>1</sup> Sirt1 activation protects the mouse renal medulla from oxidative injury. *J Clin Invest.* 2010 Apr;120(4):1056-68. PMID: 20335659 (**Corresponding author**)
8. **CM Hao** and Haase, V. Sirtuins and their relevance to the kidney. *J Am Soc Nephrol* 2010 Oct;21(10):1620-7
9. Fan H, Yang HC, You L, Wang YY, He WJ, **Hao CM**. The histone deacetylase, SIRT1, contributes to the resistance of young mice to ischemia/reperfusion-induced acute kidney injury. *Kidney Int.* 2013 Mar;83(3):404-13. (**Corresponding author**)
10. Wenjuan He, Min Zhang, Min Zhao, Jian Chen, Linda S. Davis, Timothy S. Blackwell, Fiona Yull, Matthew D. Breyer and **Chuan-Ming Hao**. Increased Dietary Sodium Induces COX2 Expression by activating NFkB in Renal Medullary Interstitial Cells. *Pflügers Archiv - European Journal of Physiology* 2013 Jul 31. (**Corresponding author**)
11. Huang XZ, Wen D, Zhang M, Xie Q, Ma L, Guan Y, Ren Y, Chen J, **Hao CM**. Sirt1 activation ameliorates renal fibrosis by inhibiting the TGF-β/Smad3 pathway J Cell Biochem. 2014 May;115(5):996-1005. doi: 10.1002/jcb.24748.
12. Qionghong Xie<sup>1</sup>, **Chuan-Ming Hao**<sup>1</sup>, Linong Ji<sup>2</sup>, Dayi Hu<sup>3</sup>, Tongying Zhu<sup>1</sup>, Xuehai Li<sup>4</sup>, Dandan Qin<sup>4</sup>, and Danyi Zhang<sup>4</sup>. ACEI/ARB Underused in Patients with Type 2 Diabetes in Chinese Population (CCMR-3B study) PLoS One. 2015 Feb 12;10(2):e0116970. (Corresponding)
13. Xie Q, Li Y, Xue J, Xiong Z, Wang L, Sun Z, Ren Y, Zhu X, **Hao CM**. Renal Phospholipase A2 Receptor in Hepatitis B Virus-Associated Membranous Nephropathy. *Am J Nephrol.* 2015;41(4-5):345-53. Shang D, Xie Q, Ge X, Yan H, Tian J, Kuang D, **Hao CM**, Zhu T. Hyperphosphatemia as an independent risk factor for coronary artery calcification progression in peritoneal dialysis patients. *BMC Nephrol.* 2015 Jul 18;16:107. doi: 10.1186/s12882-015-0103-8. PMID:26187601
14. Xie Q, Ge X, Shang D, Li Y, Yan H, Tian J, **Hao CM**, Zhu T. CORONARY ARTERY CALCIFICATION SCORE AS A PREDICTOR OF ALL-CAUSE MORTALITY AND CARDIOVASCULAR OUTCOME IN PERITONEAL DIALYSIS PATIENTS. *Perit Dial Int.* 2015 Jul 29.
15. Novak J, Rizk D, Takahashi K, Zhang X, Bian Q, Ueda H, Ueda Y, Reily C, Lai LY, **Hao C**, Novak L, Huang ZQ, Renfrow MB, Suzuki H, Julian BA. New Insights into the Pathogenesis of IgA Nephropathy. *Kidney Dis (Basel).* 2015 May;1(1):8-18. Epub 2015 May 1. PMID:26568951
16. Yi Guan and **Chuan-Ming Hao**. SIRT1 and Kidney Function. *Kidney Dis (Basel).* 2016 Mar;1(4):258-65. doi: 10.1159/000440967. Epub 2015 Oct 13. Review.
17. Huo X, Gao L, Guo L, Xu W, Wang W, Zhi X, Li L, Ren Y, Qi X, Sun Z, Li W, Ji Q, Ran X, Su B, **Hao C**, et al. Risk of non-fatal cardiovascular diseases in early-onset versus late-onset type 2 diabetes in China: a cross-sectional study. *Lancet Diabetes Endocrinol.* 2016 Feb;4(2):115-24. doi:
18. Li MX, Liu JF, Lu JD, Zhu Y, Kuang DW, Xiang JB, Sun P, Wang W, Xue J, Gu Y, **Hao CM**. Plasmadialfiltration ameliorating gut mucosal barrier dysfunction and improving survival in porcine sepsis models. *Intensive Care Med Exp.* 2016 Dec;4(1):31.
19. Shang D, Xie Q, Shang B, Zhang M, You L, **Hao CM**, Zhu T. Hyperphosphatemia and hs-CRP Initiate the Coronary Artery Calcification in Peritoneal Dialysis Patients. *Biomed Res Int.* 2017;2017:2520510.
20. Yi Guan, Su-Rong Wang, Xin-Zhong Huang, Qiong-hong Xie, Yun-Yu Xu, Da Shang, and **Chuan-Ming**

**Hao.** Nicotinamide Mononucleotide, an NAD<sup>+</sup> Precursor, Rescues Age-Associated Susceptibility to AKI in a Sirtuin 1-Dependent Manner. *J Am Soc Nephrol* 2017

21. Deng B, Lin Y, Ma S, Zheng Y, Yang X, Li B, Yu W, Xu Q, Liu T, **Hao C**, He R, Ding F. The leukotriene B<sub>4</sub>-leukotriene B<sub>4</sub> receptor axis promotes cisplatin-induced acute kidney injury by modulating neutrophil recruitment. *Kidney Int.* 2017 Mar 15.
22. M Wang, Y Obi, E Streja, CM. Rhee, WL Lau, J Chen, **C Hao**, T Hamano, CP. Kovesdy, and K Kalantar-Zadeh. Association of Parameters of Mineral Bone Disorder with Mortality in Patients on Hemodialysis according to Level of Residual Kidney Function. *CJASN.* Published on May 9, 2017
23. Cao Y, Guan Y, Xu YY, Hao CM Endothelial prostacyclin protects the kidney from ischemia-reperfusion injury. *Pflugers Arch.* 2018 Nov 9. doi: 10.1007/s00424-018-2229-6.
24. Wang AY, Akizawa T, Bavanandan S, Hamano T, Liew A, Lu KC, Lumlertgul D, Oh KH, Zhao MH, Ka-Shun Fung S, Obi Y, Sumida K, Choong LHL, Goh BL, **Hao CM**, Kwon YJ, Tarng DC, Zuo L, Wheeler DC, Tsukamoto Y, Fukagawa M. 2017 Kidney Disease: Improving Global Outcomes (KDIGO) Chronic Kidney Disease-Mineral and Bone Disorder (CKD-MBD) Guideline Update Implementation: Asia Summit Conference Report. *Kidney Int Rep.* 2019 Sep 23;4(11):1523-1537.
25. Chen N, Hao C et al Roxadustat Treatment for Anemia in Patients Undergoing Long-Term Dialysis. *N Engl J Med.* 2019 Sep 12;381(11):1011-1022
26. Chen N, Hao C et al Roxadustat for Anemia in Patients with Kidney Disease Not Receiving Dialysis. *N Engl J Med.* 2019 Sep 12;381(11):1001-1010 (equal contribution)
27. Liew A, Bavanandan S, Prasad N, Wong MG, Chang JM, Eiam-Ong S, **Hao CM**, Lim CY, Lim SK, Oh KH, Okada H, Susantitaphong P, Lydia A, Tran HTB, Villanueva R, Yeo SC, Tang SCW. ASIAN PACIFIC SOCIETY OF NEPHROLOGY CLINICAL PRACTICE GUIDELINE ON DIABETIC KIDNEY DISEASE *Nephrology (Carlton).* 2020 Oct;25 Suppl 2:12-45. doi: 10.1111/nep.13785
28. Yap DYH, McMahon LP, **Hao CM**, Hu N, Okada H, Suzuki Y, Kim SG, Lim SK, Vareesangthip K, Hung CC, Nangaku M; APSN HIF-PHI Recommendation Committee: Recommendations by the Asian Pacific Society of Nephrology (APSN) on the appropriate use of HIF-PH inhibitors *Nephrology (Carlton).* 2020 Nov 21. doi: 10.1111/nep.13835.
29. Li J, Xie QH, You L, Xu NX, **Hao CM.** Effects of hypoxia-inducible factor prolyl hydroxylase inhibitors on iron regulation in non-dialysis-dependent chronic kidney disease patients with anemia: A systematic review and meta-analysis. *Pharmacol Res.* 2020 Oct 18:105256. doi: 10.1016/j.phrs.2020.105256. Online ahead of print. PMID: 33086081
30. Wang Y, Wei L, Guan Y, Wang Q, Xie Q, Hao C. Diabetes is a risk factor for high-dose methotrexate-associated AKI in lymphoma patients. *Ren Fail.* 2020 Nov;42(1):1111-1117. doi: 10.1080/0886022X.2020.1838926. PMID: 33164656

### Book Chapter (selected)

Chuan-Ming Hao, FanFan Hou and Walter Wasser. The Far East. **Brenner & Rector's the Kidney.** pp 2520 – 2536. 2016 Tenth Edition. Philadelphia, PA: Elsevier