

CURRICULUM VITAE
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PERSONAL INFORMATION

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EDUCATION

B.S./1988 Seoul National University, Seoul Korea. Zoology
M.S./1991 Seoul National University, Seoul Korea. Zoology
Ph.D./1996 Seoul National University, Seoul Korea. Molecular Biology

EMPLOYMENT HISTORY

08/1996 – 09/1999 Research Fellow, Division of Nephrology, Johns Hopkins University
10/1999 – 06/2001 Research Associate, Division of Nephrology, Johns Hopkins University
07/2001 – 11/2002 Instructor, Division of Nephrology, Johns Hopkins University
11/2002 – present Assistant Professor, Division of Nephrology, University of Maryland

PROFESSIONAL SOCIETY MEMBERSHIP

06/2000 – present American Society for Cell Biology
07/2000 – present American Physiological Society

HONORS AND AWARDS

07/1999 – 06/2001 Juvenile Diabetes International Foundation Fellowship

In-CAMPUS SERVICE

7/1/2004 – present Renal Journal Club, Organizer

GRANT SUPPORT

Professional Development Award 7/1/2004 – 6/30/2005
National Kidney Foundation-Maryland
“Heat Shock Proteins in Acute Renal Failure-Induced Lung Injury”
Role: PI, 20% Effort

Professional Development Award 7/1/2005 – 6/30/2006
National Kidney Foundation-Maryland
“Regulation of Heat Shock Factors in Acute Lung Injury Induced by Acute Renal Failure”
Role: PI, 20% Effort

PUBLICATIONS

1. Colla E, Lee SD, Sheen MR, Woo SK, and Kwon HM. (2006) TonEBP is inhibited by RNA helicase A via interaction involving the E'F loop. *Biochem J.* 393: 411 – 419.
2. Han KH, Woo SK, Kim WY, Park SH, Cha JH, Kim J, and Kwon HM. (2004) Maturation of TonEBP expression in developing rat kidney. *Am. J. Physiol.* 287: F878 – F885.
3. Loyher ML, Mutin M, Woo SK, Kwon HM, and Tappaz ML. (2004) Transcription factor tonicity-responsive enhancer-binding protein (TonEBP) which transactivates osmoprotective genes is expressed and upregulated following acute systemic hypertonicity in neurons in brain. *Neuroscience* 124: 89-104.
4. Na KY, Woo SK, Lee SD, and Kwon HM. (2003) Silencing of TonEBP/NFAT5 transcriptional activator by RNA interference. *J. Am. Soc. Nephrol.* 14: 283-288.
5. Neuhofer W, Woo SK, Na KY, Grunbein R, Park WK, Nahm O, Beck FX, and Kwon HM. (2002) Regulation of TonEBP transcriptional activator in MDCK cells following changes in ambient tonicity. *Am. J. Physiol.* 283: C1604-C1611
6. Woo SK, Lee SD, and Kwon HM. (2002) TonEBP transcriptional activator in the cellular response to increased osmolality. *Pflugers Arch.* 444: 579-585.
7. Woo SK, Lee SD, Na KY, Park WK, and Kwon HM. (2002) TonEBP/NFAT5 stimulates transcription of HSP70 in response to hypertonicity. *Mol. Cell. Biol.* 22: 5753-5760.
8. Lee SD, Woo SK, and Kwon HM. (2002) Dimerization is required for phosphorylation and DNA binding of TonEBP/NFAT5. *Biochem. Biophys. Res. Commun.* 294: 968-975.
9. Woo SK, and Kwon HM. (2002) Adaptation of kidney medulla to hypertonicity: role of the transcription factor TonEBP. *Int. Rev. Cytol.* 215: 189-202.
10. Maouyo D, Kim JY, Lee SD, Wu Y, Woo SK, and Kwon HM. (2002) Mouse TonEBP/NFAT5: Expression in early development and alternative splicing. *Am. J. Physiol.* 282: F802-F809.
11. Woo SK, Nahm O, Handler JH, and Kwon HM. (2002) Involvement of multiple kinase pathways in stimulation of gene transcription by hypertonicity. *Am. J. Physiol.* 282: C49-C58.
12. Cha JH, Woo SK, Han KH, Kim YH, Handler JS, Kim J, and Kwon HM. (2001) Hydration status affects nuclear distribution of transcription factor tonicity responsive enhancer binding protein in rat kidney. *J. Am. Soc. Nephrol.* 12; 2221-2230.
13. Franchi-Gazzola R, Visigalli R, Dall'Asta V, Sala R, Woo SK, Kwon HM, Gazzola GC, and Bussolati O. (2001) Amino acid depletion activates TonEBP and sodium-coupled inositol transport. *Am. J. Physiol.* 280; C1465-C1474.
14. Woo SK, Nahm O, and Kwon HM. (2000) How salt regulates genes: function of a Rel-like transcription factor TonEBP. *Biochem. Biophys. Res. Commun.*, 278: 269-271.
15. Woo SK, Dahl SC, Handler JS, and Kwon HM. (2000) Bi-directional regulation of tonicity-responsive enhancer binding protein in response to changes in tonicity. *Am. J. Physiol.*, 278; F1006-F1012.
16. Woo SK, Maouyo D, Handler JS, and Kwon HM. (2000) Hypertonicity induced nuclear redistribution of tonicity-responsive enhancer binding protein requires proteasome activity. *Am. J. Physiol.*, 278; C323-C330.
17. Miyakawa H, Woo SK, Dahl SC, Handler JS, and Kwon HM. (1999) Tonicity-responsive enhancer binding protein, a Rel-like protein that stimulates transcription in response to hypertonicity. *Proc. Natl. Acad. Sci. USA*, 96, 2538-2542.

18. Miyakawa H, Woo SK, Chen CP, Dahl SC, Handler JS, and Kwon HM. (1998) *Cis-* and *trans-*acting factors regulating transcription of the BGT1 gene in response to hypertonicity. *Am. J. Physiol.*, 274; F753-F761.
19. Lee JI, Woo SK, Kim KI, Park KC, Baek SH, Yoo YJ, and Chung CH. (1998) A Method for Assaying Deubiquitinating Enzymes. *Biol. Proced. Online*, 1: 92-99.
20. Woo SK, Baek SH, Shin DH, Kim HS, Yoo YJ, Cho CM, Kang MS, and Chung CH. (1997) A novel ubiquitin C-terminal hydrolase (UCH-9) from chick skeletal muscle: Its purification and characterization. *Korean J. Biol. Sci.*, 1; 323-328.
21. Park KC, Woo SK, Yoo YJ, Wyndham AM, Baker RT, and Chung CH. (1997) Purification and characterization of UBP6, a new ubiquitin specific protease in *Saccharomyces cerevisiae*. *Arch. Biochem. Biophys.*, 347; 78-84.
22. Baek SH, Woo SK, Lee JI, Yoo YJ, Cho CM, Kang MS, Tanaka K, and Chung CH. (1997) New de-ubiquitinating enzyme, ubiquitin C-terminal hydrolase 8, in chick skeletal muscle. *Biochem. J.*, 325; 325-330.
23. Woo SK, Baek SH, Lee JI, Yoo YJ, Cho CM, Kang MS, and Chung CH. (1997) Purification and characterization of a new ubiquitin C-terminal hydrolase (UCH-1) with isopeptidase activity from chick skeletal muscle. *J. Biochem.*, 121; 684-689.
24. Chung CH, Woo SK, Lee JI, Park IK, Kang MS, and Ha DB. (1996) Ubiquitin C-terminal hydrolases in chick skeletal muscle. *Adv. Exp. Med. Biol.*, 389; 203-208.
25. Woo SK, Lee JI, Park IK, Yoo YJ, Cho CM, Kang MS, Ha DB, Tanaka K, and Chung CH. (1995) Multiple ubiquitin C-terminal hydrolases from chick skeletal muscle. *J. Biol. Chem.*, 270; 18766-18773.
26. Yoo JK, Park KC, Woo SK, Woo KM, Ha DB, and Chung CH. (1993) Purification and characterization of a latent serine protease in *E. coli*. *Mol. Cells*, 3; 153-156.
27. Yoo SJ, Seol JH, Woo SK, Suh SW, Hwang DS, Ha DB, and Chung CH. (1993) Hydrolysis of the IciA protein, an inhibitor of DNA replication initiation, by protease Do in *E. coli*. *FEBS Lett.*, 327; 17-20.
28. Seol JH, Woo SK, Jung EM, Yoo SJ, Lee CS, Kim K, Tanaka K, Ichihara A, Ha DB, and Chung CH. (1991) Protease Do is essential for survival of *E. coli* at high temperature: Its identity with the *htrA* gene product. *Biochem. Biophys. Res. Commun.*, 176; 730-736.