

Curriculum Vitae

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EDUCATION:

Year	Conferring Institution	Field	Degree
2002.3 – 2004.2	Seoul National University	Veterinary Pathology	Ph.D.
2000.3 – 2002.2	Seoul National University	Veterinary Pathology	M.S.
1996.3 – 2000.2	Seoul National University	Veterinary Medicine	D.V.M.

EMPLOYMENT

Feb. 2004 - present: Scientific officer, Dept. of Toxicologic Pathology, National Institute of Toxicological Research, Korea Food and Drug Administration (KFDA).

Oct. 2002 - Feb. 2004: Scientific officer, Dept. of Histopathology, National Institute of Toxicological Research, Korea Food and Drug Administration (KFDA).

RESEARCH

1. Publications

1) First author: submitted and published (SCI)

- (1) **Cho WS**, Han BS, Lee H, Kim C, Nam KT, Park K, Choi M, Ra DS, Kim S, Jeong J, Jang DD. Subchronic Toxicity Study of 3-Monochloropropane-1,2-diol Administered by Drinking Water to B6C3F1 Mice. Food and Chemical Toxicology. *Accepted.*

- (2) **Cho WS**, Han BS, Ahn BW, Nam KT, Choi M, Oh SY, Kim SH, Jeong J, Jang DD. Peroxisome proliferators di-isodecyl phthalate has no carcinogenic potential in Fischer 344 rats. *Toxicology Letters*. *Accepted*.
- (3) **Cho WS**, Choi M, Han BS, Cho M, Oh J, Park K, Kim SH, Jeong J. Inflammatory mediators induced by intratracheal instillation of ultrafine amorphous silica particles. *Toxicology Letters*, 2007 Dec 10;175(1-3):24-33.
- (4) **Cho WS**, Jung K, Kim J, Ha Y, Chae C. Expression of mRNA encoding interleukin (IL)-10, IL-12p35 and IL-12p40 in lungs from pigs experimentally infected with *Actinobacillus pleuropneumoniae*. *Vet Res Commun*. 2005 Feb; 29(2): 111-22.
- (5) **Cho WS**, Chae C. Expression of nitric oxide synthase 2 and cyclooxygenase-2 in swine experimentally infected with *Actinobacillus pleuropneumoniae*. *Vet Pathol*. 2004 Nov; 41(6): 666-72.
- (6) **Cho WS**, Chae C. Expression of cyclooxygenase-2 and nitric oxide synthase 2 in swine ulcerative colitis caused by *Salmonella typhimurium*. *Vet Pathol*. 2004 Jul;41(4):419-23.
- (7) **Cho WS**, Chae C. Expression of inflammatory cytokines (TNF-alpha, IL-1, IL-6 and IL-8) in colon of pigs naturally infected with *Salmonella typhimurium* and *S. choleraesuis*. *J Vet Med A Physiol Pathol Clin Med*. 2003 Dec; 50(10): 484-7.
- (8) **Cho WS**, Chae C. Detection of nuclear factor-kappa B and inducible nitric oxide synthase in the lungs of pigs naturally infected with *Actinobacillus pleuropneumoniae*. *J Comp Pathol*. 2004 Feb-Apr; 130(2-3): 112-6.
- (9) **Cho WS**, Chae C.: In vitro effects of *Actinobacillus pleuropneumoniae* on inducible nitric oxide synthase and cyclooxygenase-2 in porcine alveolar macrophages. *Am J Vet Res*. 2003 Dec; 64(12): 1514-8.
- (10) **Cho WS**, Chae C.: PCR detection of *Actinobacillus pleuropneumoniae* apxIV gene in formalin-fixed, paraffin-embedded lung tissues and comparison with in situ hybridization. *Lett Appl Microbiol*. 2003 37(1): 56-60.
- (11) **Cho WS**, Chae C.: Evidence of nitric oxide synthase 2 activity in swine naturally infected with *Actinobacillus pleuropneumoniae*. *Vet Pathol*. 2003 May;40(3): 276-82.
- (12) **Cho WS**, Chae C.: Differentiation of twelve *Actinobacillus pleuropneumoniae* serotypes by outer membrane lipoprotein gene-based restriction fragment length polymorphism. *J Vet Med B Infect Dis Vet Public Health*. 2003 Mar; 50(2): 90-4.
- (13) **Cho WS**, Chae C.: Expression of cyclooxygenase-2 in swine naturally infected with *Actinobacillus pleuropneumoniae*. *Vet Pathol*. 2003 Jan;40(1):25-31.

- (14) **Cho WS**, Choi C, Chae C.: In situ hybridization for the detection of the apxIV gene in the lungs of pigs experimentally infected with twelve *Actinobacillus pleuropneumoniae* serotypes. *Vet Res.* 2002 Nov-Dec; 33(6): 653-60.
- (15) **Cho WS**, Chae C.: Immunohistochemical detection of cyclooxygenase-2 in lungs of pigs naturally infected with *Actinobacillus pleuropneumoniae*. *J Comp Pathol.* 2002 Nov; 127(4): 274-9.
- (16) **Cho WS**, Chae C.: Expression of nitric oxide synthase 2 and tumor necrosis factor alpha in swine naturally infected with *Actinobacillus pleuropneumoniae*. *Vet Pathol.* 2002 Jan; 39(1): 27-32.
- (17) **Cho WS**, Chae C.: Immunohistochemical detection and distribution of inducible nitric oxide synthase in pigs naturally infected with *Actinobacillus pleuropneumoniae*. *J Comp Pathol.* 2002 Feb-Apr; 126(2-3): 109-14.
- (18) **Cho WS**, Chae C.: Expression of the apxIV gene in pigs naturally infected with *Actinobacillus pleuropneumoniae*. *J Comp Pathol.* 2001 Jul; 125(1): 34-40.
- (19) **Cho WS**, Chae C.: Genotypic prevalence of apxIV in *Actinobacillus pleuropneumoniae* field isolates. *J Vet Diagn Invest.* 2001 Mar; 13(2): 175-7.

2) Co-Author: published (SCI)

- (1) Jung K, Ha SK, Chung HK, Kim J, **Cho WS**, Choi C, Chae C.: Archival PCR-based diagnosis of *Clostridium difficile* in piglets. *Vet Rec.* 2003 Oct 11; 153(15): 466-7.
- (2) Han DU, Choi C, Kim J, **Cho WS**, Chung HK, Ha SK, Jung K, Chae C.: Antimicrobial susceptibility for east1 + *Escherichia coli* isolated from diarrheic pigs in Korea. *J Vet Med B Infect Dis Vet Public Health.* 2002 Sep; 49(7): 346-8.
- (3) Choi C, **Cho WS**, Kim B, Chae C.: Expression of Interferon-gamma and tumour necrosis factor-alpha in pigs experimentally infected with Porcine Reproductive and Respiratory Syndrome Virus (PRRSV). *J Comp Pathol.* 2002 Aug-Oct; 127(2-3): 106-13.
- (4) Jang DD, Kim CK, Ahn B, Kang JS, Nam KT, Kim DJ, Han DU, Jung K, Chung HK, Ha SK, Choi C, **Cho WS**, Kim J, Chae C.: Spontaneous complex odontoma in a Sprague-Dawley rat. *J Vet Med Sci.* 2002 Mar; 64(3): 289-91.
- (5) Jung T, Choi C, Chung HK, Kim J, **Cho WS**, Jung K, Chae C.: Herd-level seroprevalence of swine-influenza virus in Korea. *Prev Vet Med.* 2002 Apr 15; 53(4): 311-4.

- (6) Choi C, Han DU, Kim J, **Cho WS**, Chung HK, Jung T, Yoon BS, Chae C.: Prevalence of *Brachyspira pilosicoli* in Korean pigs, determined using a nested PCR. *Vet Rec.* 2002 Feb 16; 150(7): 217-8.
- (7) Choi C, Ham HJ, Kwon D, Kim J, Cheon DS, Min K, **Cho WS**, Chung HK, Jung T, Jung K, Chae C.: Antimicrobial susceptibility of pathogenic *Escherichia coli* isolated from pigs in Korea. *J Vet Med Sci.* 2002 Jan; 64(1): 71-3.
- (8) Kim J, Chung HK, Jung T, **Cho WS**, Choi C, Chae C. Postweaning multisystemic wasting syndrome of pigs in Korea: prevalence, microscopic lesions and coexisting microorganisms. *J Vet Med Sci.* 2002 Jan; 64(1): 57-62.
- (9) Kwon D, Choi C, Jung T, Chung HK, Kim JP, Bae SS, **Cho WS**, Kim J, Chae C: Genotypic prevalence of the fimbrial adhesins (F4, F5, F6, F41 and F18) and toxins (LT, STa, STb and STx2e) in *Escherichia coli* isolated from postweaning pigs with diarrhoea or oedema disease in Korea. *Vet Rec.* 2002 Jan 12; 150(2): 35-7.
- (10) Choi C, Kim B, **Cho WS**, Kim J, Kwon D, Cheon DS, Chae C.: Capsular serotype, toxA gene, and antimicrobial susceptibility profiles of *Pasteurella multocida* isolated from pigs with pneumonia in Korea. *Vet Rec.* 2001 Aug 18; 149(7): 210-2.
- (11) Han DU, Choi C, Ham HJ, Jung JH, **Cho WS**, Kim J, Higgins R, Chae C.: Prevalence, capsular type and antimicrobial susceptibility of *Streptococcus suis* isolated from slaughter pigs in Korea. *Can J Vet Res.* 2001 Jul; 65(3): 151-5.
- (12) Kim B, Min K, Choi C, **Cho WS**, Cheon DS, Kwon D, Kim J, Chae C.: Antimicrobial susceptibility of *Actinobacillus pleuropneumoniae* isolated from pigs in Korea using new standardized procedures. *J Vet Med Sci.* 2001 Mar; 63(3): 341-2.
- (13) Chae C, Kim O, Choi C, Min K, **Cho WS**, Kim J, Tai JH. Prevalence of porcine epidemic diarrhoea virus and transmissible gastroenteritis virus infection in Korean pigs. *Vet Rec.* 2000 Nov 18; 147(21): 606-8.
- (14) Kim J, Choi C, **Cho WS**, Chae C. Immunohistochemistry and polymerase chain reaction for the detection of *Lawsonia intracellularis* in porcine intestinal tissues with proliferative enteropathy. *J Vet Med Sci.* 2000 Jul; 62(7): 771-3.

3. Book chapters

- 1) Postmortem Change in the Rat. 2005. ISBN:89-953034-5-x93510.
- 2) Histology and Histopathological Evaluation of the testis. 2004. ISBN: 89-5616-095-3 93510. Translators.
- 3) Toxicology. 2003. ISBN: 89-5616-053-8 93510.

- 4) Terminology of Toxicologic Pathology. 2003. Publication No.: 11-1470129-000078-01.
- 5) Pathology of Laboratory Rodents & Rabbits. 2002. ISBN: 89-5616-035-X 93510. Translator.

4. Non-SCI Journals: published

- 1) Park KD, Han BS, Jeong J, Oh JH, **Cho WS**, Cho MJ, Choi M, Kim SJ, Kim SH. Immatured type uterotrophic assay for estrogenicity evaluation of DEHA. 2007; 33(5), 379-385.
- 2) Lee G, Kim MH, Jo HY, Han BS, **Cho WS**, Jeong J, Choi M, Kim SH, Cho MJ, Kim HO, Ahn BW. Immunohistochemical localization of cell surface antigens in lymphomas induced by N-Methyl-N-nitrosourea in rasH2 transgenic mice. 2007; 23(4), 471-476.
- 3) Kim HS, Kim YS, Lim CH, Kwack SJ, Cho YR, Kang MS, Oh JH, **Cho WS**, Han BS, Kim SH, Kang TS, Yum YN. Comparative study on nephrotoxicity parameters in F344N rats exposed to mercuric chloride. Journal of Alternatives to Animal Experiments. 2007; 1(2), 31-40.
- 4) Kim CK, Han BS, Oh JH, **Cho WS**, Park KD, Choi M, Cho MJ, Oh SY, Kim SJ, Jeong J, Kim SH, Jang DD. Four-week repeated-dose toxicity study of di-isodecyl phthalate in ras H2 wild type mice. Lab. Anim. Res. 2006; 22, 289-293.
- 5) Han BS, Park KD, **Cho WS**, Song CY, Cho HM, Kim CK, Choi M, Seong NW, Lee YJ, Oh SY, Jung J, Kim SH, Jang DD. Modifying effects of plasticizer on preneoplastic lesion in rat multi-organ carcinogenesis. Lab. Anim. Res. 2005 Sep; 21(3), 223-228.
- 6) Han BS, **Cho WS**, Lee BJ, Nam SY, Ahn B. Nanotechnology and safety of nanomaterials, Journal of Veterinary Medicine and Biotechnology 2005; 29, 111-122.
- 7) Cho HM, Seong NW, Che JH, Park KD, Nam KT, **Cho WS**, Han BS, Yang KH, Kim BH, Lee KK, Kim HC, Kwon BM, Park YS, Jang DD. Four weeks repeated toxicity study of 2-o-benzoylcinnamaldehyde (CB-PH) by oral administration in Spraque-Dawley rats J. Toxicol. Pub. Health 2003; 19(4), 259-266.