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• **Country:** Japan

• **Educationnal Background:**
1989 – 1991 Seoul National University College of Natural Science, Seoul, Korea
1991 – 1995 Seoul National University College of Medicine, Seoul, Korea
2000 – 2004 Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

• **Professional Experiences:**
1996-1997 Intern in Department of Traumatology and Critical Care, Tokyo University Hospital, Tokyo, Japan.
1997-1998 Medical Staff in 1st Department of Surgery, Nihon University Hospital, Tokyo, Japan.
1998-2000 Medical Staff in Department of Surgery, Kasukabe Municipal Hospital, Saitama, Japan.
2003-2004 Medical Staff in Department of Surgery, Chiba Children's Hospital, Chiba, Japan.
2004-2006 Academic staff in Department of Surgery, University of Wisconsin–Madison College of Medicine and Public Health, USA.
2006-2007 Medical Staff in Department of Digestive Surgery, Nihon University Hospital, Tokyo, Japan.
2007-2008 Medical Staff in Department of Surgery, National Hospital Organization Disaster Medical Center, Tokyo, Japan.
2008- Chief of Surgery Department, Kasukabe Medical Center, Saitama, Japan.

Research Experience:
2004-2006 Academic staff in Department of Surgery, University of Wisconsin–Madison College of Medicine and Public Health, USA.

• **Awards:**
2003 Fellowship Award by Japanese Society of Parenteral and Enteral Nutrition
2007 Investigator Promising Award by American society for Parental and Enteral Nutrition.
2007 Norman Yoshimura Travel Grant by American society for Parental and Enteral Nutrition.
2017 Travel Grant by Korean Society of Surgical Metabolism and Nutrition.

• **Main Scientific Publications:**
1. **Kang W**, Saito H, Fukatsu K, Hidemura A, Hiroyuki Koyama, Tetsuya Sakamoto, Kazuhiko Maekawa : Effects of tyrosine kinase signaling inhibition on survival after cecal ligation and puncture in diet-restricted mice. JPEN J Parenter Enteral Nutr, 2001 Nov; 25(6): 291-7
2. **Kang W**, Saito H, Fukatsu K, Hidemura A, Matsuda T: Diet restriction impairs extracellular signal-regulated kinase activation of peritoneal exudative cells after N-formyl-methionyl-leucyl-phenylalanine stimulation in a murine peritonitis model. JPEN J Parenter Enteral Nutr, 2002 Sep; 26: 259-64
3. **Kang W**, Saito H, Fukatsu K, Hidemura A, Matsuda T: Analysis of tyrosine phosphorylation in resident peritoneal cells during diet restriction by laser scanning cytometry. SHOCK, 2003 Mar;19(3): 238-4
4. **Kang W**, Saito H, Fukatsu K, Nagawa H, Ikeda S: Brief refeeding rapidly reverses dietary restriction-induced nuclear factor-kappaB down regulation in peritoneal resident cells. JPEN J

Parenter Enteral Nutr, 2003 May; 27(3):193-7

5. **Kang W**, Gomez FE, Lan J, Sano Y, Ueno C, Kudsk KA: Parenteral nutrition impairs gut-associated lymphoid tissue and mucosal immunity by reducing lymphotoxin Beta receptor expression. Annals of Surgery, 2006 Sep;244(3):392-9
6. **Kang W**, Kudsk KA: Is there evidence that the gut contributes to mucosal immunity in humans? JPEN J Parenter Enteral Nutr, 2007 May-Jun;31(3):246-58
7. **Kang W**, Kudsk KA, Sano Y, Lan J, Yang-Xin F, Gomez FE, Maeshima Y: Effects of lymphotoxin beta receptor blockade on intestinal mucosal immunity. JPEN J Parenter Enteral Nutr. 2007 Sep;31(5):358-64
8. Matsuda T, Saito H, Fukatsu K, Han I, Inoue T, Furukawa S, Ikeda S, Hidemura A, **Kang W**: Differences in neutrophil death among B-lactum antibiotics after in vitro killing of bacteria. SHOCK , 2002 Jul; 18 (3): 69-74,
9. Hidemura A, Saito H, Fukatsu K, Matsuda T, Kitayama J, Ikeda S, **Kang W**, Nagawa H. Oral administration of bifidobacterium longum culture condensate in a diet-restricted murine peritonitis model enhances polymorphonuclear neutrophil recruitment into the local inflammatory site. Nutrition. 2003 Mar;19(3):270-4.
10. Ueno C, Fukatsu K, **Kang W**, Maeshima Y, Moriya T, Hara E, Nagayoshi H, Omata J, Saito H, Hiraide H, Mochizuki H. Route and type of nutrition influence nuclear factor kappaB activation in peritoneal resident cells. Shock. 2005 Oct;24(4):382-7.
11. Ueno C, Fukatsu K, **Kang W**, Maeshima Y, Nagayoshi H, Omata J, Saito H, Hiraide H, Mochizuki H. Lack of enteral nutrition delays nuclear factor kappa B activation in peritoneal exudative cells in a murine glycogen-induced peritonitis model. JPEN Journal of Parenteral and Enteral Nutrition, 2006 May-Jun;30(3):179-85.
12. Gomez FE, Lan J, **Kang W**, Ueno C, Kudsk KA. Parenteral nutrition and fasting reduces mucosal addressin cellular adhesion molecule-1 (MAdCAM-1) mRNA in Peyer's patches of mice. JPEN Journal of Parenteral and Enteral Nutrition, 2007 Jan-Feb;31(1):47-52.
13. Maeshima Y, Fukatsu K, **Kang W**, Ueno C, Moriya T, Saitoh D, Mochizuki H. Lack of enteral nutrition blunts extracellular-regulated kinase phosphorylation in gut-associated lymphoid tissue. Shock. 2007 Mar;27(3):320-5.
14. Moriya T, Fukatsu K, Maeshima Y, Ikezawa F, Ueno C, **Kang W**, Takakayama E, Saitoh D, Mochizuki H, Miyazaki M. Nutritional route affects ERK phosphorylation and cytokine production in hepatic mononuclear cells. Annals of Surgery, 2007 Apr;245(4):642-50.
15. Sano Y, Gomez FE, **Kang W**, Lan J, Maeshima Y, Hermsen JL, Ueno C, Kudsk KA. Intestinal polymeric immunoglobulin receptor is affected by type and route of nutrition. JPEN Journal of Parenteral and Enteral Nutrition, 2007 Sep-Oct;31(5):351-6; discussion 356-7.
16. Kudsk KA, Gomez FE, **Kang W**, Ueno C. Enteral feeding of a chemically defined diet preserves pulmonary immunity but not intestinal immunity: the role of lymphotoxin beta receptor. JPEN Journal of Parenteral and Enteral Nutrition, 2007 Nov-Dec;31(6):477-81.
17. Hermsen JL, Gomez FE, Maeshima Y, Sano Y, **Kang W**, Kudsk KA. Decreased enteral stimulation alters mucosal immune chemokines. JPEN Journal of Parenteral and Enteral Nutrition, 2008 Jan-Feb;32(1):36-44.
18. Hermsen JL, Sano Y, Gomez FE, Maeshima Y, **Kang W**, Kudsk KA. Parenteral nutrition inhibits tumor necrosis factor-alpha-mediated IgA response to injury. Surg Infect. 2008 Feb;9(1):33-40.
19. Sano Y, Gomez FE, Hermsen JL, **Kang W**, Lan J, Maeshima Y, Kudsk KA. Parenteral nutrition induces organ specific alterations in polymeric immunoglobulin receptor levels. Journal of Surgical Research. 2008 Oct;149(2):236-42.
20. Sano Y, Hermsen JL, **Kang W**, Gomez FE, Lan J, Maeshima Y, Kudsk KA. Parenteral nutrition maintains pulmonary IgA antibody transport capacity, but not active transport, following injury. American Journal of Surgery. 2009 Jul;198(1):105-9.
21. Hermsen JL, Gomez FE, Sano Y, **Kang W**, Maeshima Y, Kudsk KA. Parenteral feeding depletes

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pulmonary lymphocyte populations. JPEN Journal of Parenteral and Enteral Nutrition, 2009 Sep-Oct;33(5):535-40.

22. Nirei K. Ogihara N, Kawamura W, **Kang W**, Moriyama M. Rapid recovery from acute liver failure secondary to pancreatoduodenectomy-related non-alcoholic steatohepatitis. Case Rep Gastroenterol. 2013 Jan;7(1):49-55

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