

CURRICULUM VITAE

(Last updated: 2021-01-02)

Byoung S. Kwon, PhD.

PERSONAL INFORMATION

Education and Training

<u>Year</u>	<u>Degree</u>	<u>Institution and Location</u>	<u>Major</u>
2009 - 2009 (Mar) (Jun)	Certificate	Graduate School of International Studies Seoul National University and the Korea International Trade Academy, Seoul, Korea	Global Leaders Program (GLP)
1981 - 1984	Postdoctoral Fellow	Department of Human Genetics Yale University School of Medicine New Haven, CT	Human Genetics
1978 - 1981	Ph.D.	Department of Cell and Molecular Biology, Medical College of Georgia, Augusta, GA	Microbiology Immunology
1972 - 1974	M.S.	Department of Microbiology College of Medicine Seoul National University, Seoul, Korea	Microbiology
1968 - 1972	D.D.S.	College of Dentistry Seoul National University, Seoul, Korea	Dentistry
1966 - 1968	Certificate	College of General Arts & Sciences Seoul National University, Seoul, Korea	Pre-dentistry

MILITARY SERVICE

1974 - 1977 Captain, the Army of the Republic of Korea

PRESENT POSITIONS

2015 - present CEO, Eutilex, Co., Ltd.,
Suite #408, Gasan Digital 1-ro 58, Geumcheon-gu
Seoul, Korea 08591

2009 - present Professor, Department of Medicine, Tulane University School of
Medicine, New Orleans, LA 70112

PAST POSITIONS

- 2013 - 2015 Distinguished Professor, Graduate School of Cancer Science and Policy,
National Cancer Center, Korea
- 2008 - 2013 Distinguished Investigator/Director of R&D Center for Cancer Therapeutics,
National Cancer Center, Korea
- 2010 - 2012 Director of Immunotherapy and GMP Production Unit, NCC
- 2010 - 2012 Chief of Translational Research Unit of NCC Research Institute
- 1999 - 2008 Professor, Department of Chemistry & Biological Sciences
University of Ulsan, Ulsan, Korea
- 1999 - 2008 Professor, Immunology Unit, LSU Eye Center,
Louisiana State University Health Sciences Center, New Orleans, USA
- 1999 - 2008 Director, Immunomodulation Research Center (IRC, SRC)
University of Ulsan, Ulsan, Korea
- 2005 - 2008 Director, Translational Medicine Research Center, University of Ulsan, Ulsan, Korea
- 2002 - 2008 Visiting Professor, Department of Microbiology and Immunology,
Tulane National Primate Research Center, Covington, LA
- 2000 - 2001 Director, Asan Institute for Life Sciences affiliated with the University of Ulsan
- 1993 - 1999 Professor, Department of Microbiology and Immunology,
Indiana University School of Medicine
(Tenured as of July1, 1992)
- 1988 - 1999 Member, Walther Oncology Center, Indiana University School of Medicine
- 1994 - 1999 Member, Indiana University Cancer Center
- 1988 - 1999 Member, Graduate Faculty, Indiana University
- 1988 - 1993 Associate Professor, Department of Microbiology and Immunology,
Indiana University School of Medicine, Indianapolis, IN
- 1984 - 1988 Head, Molecular Genetics, Guthrie Research Institute,
Sayre, PA
- 1983 - 1984 Associate Scientist, Department of Human Genetics,
Yale University, School of Medicine, New Haven, CT
- 1978 - 1981 Research Associate, Department of Cell and Molecular Biology,

Medical College of Georgia, Augusta, GA

1974 - 1978 Instructor, Seoul National University, Seoul, Korea

1972 - 1974 Teaching Assistant, Seoul National University, Seoul, Korea

TECHNOLOGY TRANSFER

May, 1993	4-1BB Technology	Bristol-Myers Squibb Co. New Jersey USA
March, 2010	Therapeutic Antibodies against Autoimmune Diseases	Biosupport Inc., Korea
September, 2017	EU101	Zhejiang Huahai Pharmaceutical
November, 2018	4-1BB Technology	Ulsan University

LAUNCH OF NEW CLINICAL TRIALS

April, 2011	Adoptive CTL Therapy against EBV ⁺ Cancers	NCC, Korea
January, 2013	Adoptive 4-1BB CTL Therapy against WT-1-positive Glioblastoma	NCC, Korea
March, 2014	Adoptive 4-1BB CTL Therapy against hTERT-positive solid cancers	NCC, Korea

HONORS

1968 - 1972	Scholarship in honor of scholastic record from the Association of Alumni, Seoul National University
1980	Travel award from the International Conference on Human Herpes Virus
1982 - 1983	National Research Service Award, NIH
1984	Travel award from the International Lymphokine Workshop, Schloss Elmau, West Germany
1983 - 1984	Swebilius Cancer Research Award, Yale University
1985 - 1987	Feasibility Grant Program Award, American Diabetes Association Inc.
1985 - 1988	Young Investigator Research Award, NIH
2004	Distinguished Scholar Award, Korean Research Foundation
2005	International Cytokine Society Award, ICS2005
2005	Star Faculty Award, Korean Research Foundation
2006	Faculty of the Year, University of Ulsan
2006	Innovative Research Award, American Arthritis Foundation

2010	Award for Promotion of Cancer Research, Japan Foundation for Promotion of Cancer Research
2012	Presidential Award, Promotion of Bio-Research and Industry, Korean Ministry of Health and Welfare
2013	Gold Ribbon Lecture, Korean Society for Molecular and Cellular Biology
2017	LMO safety management excellence award, Korea Research Institute of Bioscience and Biotechnology
2018	IP-R&D excellent institution, Korea Intellectual Property Strategy Agency
2019	Bio-medicine Industry Development Achievement Award, Ministry of Food and Drug Safety
2020	Animal Experimental Ethics Committee excellent institution, Animal and Plant Quarantine Agency

SERVICES TO THE UNIVERSITY (Indiana University and University of Ulsan)

1989 - 1992	Member, Departmental Graduate Committee
1989 - 1991	Interviewer, Director of Pediatric Hematology
1989 - 1991	Interviewer, Scientists for Gastroenterology
1990 - 1992	Departmental Seminar Organizer
1990	Member, Faculty Development Committee: Discussion Group for Research and Development
1991	Member, Search Committee for a faculty of Department of Microbiology and Immunology
1990 - 1994	Member, Committee on Faculty Affairs
1990 - 1993	Member, Committee on Biomedical Research
1995	Departmental Review Committee (5year review for the Department of Microbiology and Immunology)
1989 - 1999	Member, Search Committee for Walther Oncology Center
1993 - 1999	Member, Tenure and Promotion Committee, Indiana University
2001 - 2007	Chair, Search Committee for the program of Immunology and Biomedicine, University of Ulsan
1999 – 2008	Chair, Graduate Program of Immunology and Biomedicine, University of Ulsan

OFFICE HELD

1997 - 1998	President, Indiana Chapter of KSEA
1999 - 2004	Committee, International Affairs, KSMCB
2000 - 2001	Chair, International Affairs, KSMCB
2000 - 2001	Vice President, Korean Association of Immunobiologists
2001 - 2003	President, Stem Cell Research
2001 - 2002	President, Korean Association of Immunobiologists
2001 - 2008	Chairman of Board of Directors, Immunomics, Inc., Ulsan, Korea
2004 - 2005	Chair, Organizing Committee and International Program Committee for ICS 2005
1984 - present	Committee, American Association of Immunologists
1988 - present	Committee, American Association of Cancer Research
2000 - present	Member, The Korean Academy of Science and Technology
2003 - present	Board & advisory committee, Korean Association of Immunobiologists

EDITORIAL BOARD

- 2001 – present Cell Biology International (Editorial Board)
2005 – present Cytokine (Associate Editor)
2006 – 2008 Journal of Leukocyte Biology (Section Editor)
2008 – present International Journal of Oncology (Editorial Academy)
2009 – present Infection and Drug Resistance (Editorial Board)
2009 – present Journal of Pharmacological Research (Editorial Board)
2011 – present Journal of Biomedicine and Biotechnology Lead Guest Editor for
“The Role of Costimulation in Cancers and Autoimmune Diseases”
2017- present Journal of Clinical Case Reports (Editorial Board)
2017- present SM Bone Marrow Research (SMJBR) (Editorial Advisory Board)
2017- present Clinical Cancer Drugs (Editorial Advisory Board)
2017- present International Journal of Cancer Biology (Editorial Board)
2017- present Journal of Immunology Forecast (Editorial Board)
2017- present Journal of Allergy and Immunology: Annals of Medical Case Reports
(Editorial Board)
2017- present Journal of Remedy: Annals of Rheumatology and Arthritis (Editorial Board)
2017- present American Journal of Research in Rheumatology (Editorial Board)
2017- present International Journal of Cancer Biology (Editorial/Reviewer)
2017- present Clinical Cancer Drugs (Editorial Board)

SCIENTIFIC ADVISORY BOARD

- 2008 – 2011 Bristol-Myers-Squibb, New Jersey, USA
2006 – 2014 International Vaccine Institute, Seoul, Korea
2005 – 2009 Celltrion, Inc. Songdo, Incheon, Korea

INVITED LECTURE & PLENARY SPEECH

1. Invited lecture. “A β -chemokine, MRP-1, inhibits colony formation of bone marrow myeloid progenitors.” FASEB '95, AAI Minisymposia; chemokine: activities and regulation (co-Chair and speaker) Atlanta, GA - April 10, 1995
2. Invited lecture. “T cell costimulatory receptor 4-1BB.” Human Genome Sciences, Rockville, MD- September 11, 1995
3. Invited lecture. “Function and clinical application of T cell costimulatory molecules.” Bayer Corporation; Research and Development Strategic Alliance, Asilomar, CA - November 24, 1995
4. Invited lecture. “Function and signaling of T cell costimulatory receptor 4-1BB.” Keystone Symposium, Hilton Head, SC - March 19, 1996
5. Invited lecture. “Newly-identified members of TNFR superfamily.” SmithKline Beecham Pharmaceuticals, King of Prussia, PA - May 17, 1996
6. Special lecture. “Cell death and survival in regulation of immune responses”. The International Symposium on Bioscience and Technology, Seoul, Korea - June 17, 1996
7. Organizer, chair and speaker. Osteoclastogenesis: genes and signals". International Symposium on Molecular and Cellular Biology in Dentistry - Seoul National University School of Dentistry, Seoul, Korea - June 5, 1997

8. Invited lecture. "A new member of the TNFR superfamily". AAAAI/AAI/CIS Joint meeting, San Francisco, CA - February 20-26, 1997
9. Invited lecture. "Osteoclastogenesis: Factors and Signaling". Human Genome Sciences, Inc., Rockville, MD - September 5, 1997
10. Organizer and chair. International Symposium on Technology and Industry - Indiana University School of Medicine Cancer Center, Indianapolis, IN - December 6, 1997
11. Invited lecture. "Inducible costimulation and immunological memory." FASEB Summer Conference - July 22, 1998
12. Organizer and Chair. Symposium on current Korean Economy, and the role of Science and Technology- Indiana University Bloomington Campus - February 21, 1998
13. Plenary lecture. "Immunomodulation through T cell costimulation." Korean Society for Biochemistry and Molecular Biology - April 30, 1999
14. Invited lecture. "Chemokines and Chemokine receptors." Korean Society for Molecular and Cell Biology - March 29, 1999
15. Plenary lecture. "4-1BB mediated immunomodulation". Korean Society for Immunologists, March 24, 1999
16. Plenary lecture. "Domain-specific functions of HIV-1 coreceptor CCR5." 5th International AIDS Symposium, NIH, Korea - September 19, 1999
17. Plenary lecture. "Functions of C6 beta-chemokines" Korean Association of Immunobiologists - June 2, 2000
18. Invited lecture. "T cell activation and Costimulation". Symposium at Medical Science Institute of Catholic Medical School. September 16, 2000
19. Invited lecture. "Differentiation factor of turtle neural crest stem cells." Symposium on Stem cell Biology, Korean Society for Molecular and Cellular Biology - October, 2000
20. Plenary lecture. "Osteoclastic differentiation of Mesenchymal Stem Cells" Symposium on Genetics and Molecular Biology of Mineralized Tissues 7th KAOB International Symposium. June, 2001
21. Invited lecture. "Introduction to T cell costimulation" Korean Society for Immunology. November, 2001
22. Invited lecture. "T cell costimulation and autoimmune Herpetic Stromal Keratitis" International Symposium on "Functional Proteomics & Genomics" November 16-17, 2001
23. Invited lecture. "Osteogenic differentiation of human mesenchymal stem cell" KAOB 2001 International symposium "Genetics and Molecular Biology of Mineralized Tissues" June 25, 2001
24. Invited lecture. "Quantitative structure-activity relationships for antitumor activity of nitroazoles: a comparative analysis for the parent compounds and their nitroanion radical and nitrosoanion radical derivatives" 5th Korea-Russia International symposium on Science and Technology. June 26-July 3, 2001
25. Plenary lecture. "Immunomodulation through T-cell costimulation." The 9th Federation Meeting of Korean Basic Medical Scientists, Seoul, Korea - April 26, 2001
26. Invited lecture. "Costimulation and Induction of Immune Tolerance." Inaugural Symposium of Organ Transplantation Research Center, SNU Medical School - January 5, 2002
27. Invited lecture. "Costimulation and immune tolerance." Tulane Regional Primate Research Center, Covington, LA; Tulane University School of Medicine - February 22, 2002
28. Plenary lecture. "Cross-road between immune and skeletal systems: Players and Diseases." The 21th Annual Meeting of the Korean Society of Endocrinology, Seoul, Korea - May 1-2, 2003
29. Invited lecture. "4-1BB-mediated immunotherapy." Annual Meeting of Korean Association of Immunobiologists - May 11, 2003
30. Invited lecture. "Treatment of autoimmune diseases by modulating costimulatory receptors." Korean Society for Biochemistry and Molecular Biology - May 15, 2003
31. Plenary lecture. "Regulators of Regulatory T cells." The 6th cardiovascular genomics symposium,

Seoul, Korea - December 5, 2003

32. Plenary lecture. "Immunomodulation-based therapy of Cancers and Autoimmune Diseases." Osong International Bio-conference, Osong, Korea - October 13, 2004
33. Invited lecture. "T cell costimulation in immunity." International Vaccine Institute, Seoul, Korea – Symposium on Mucosal Immunity - October 25-30, 2004
34. Invited lecture. "4-1BB-mediated Immunotherapy" LSU Medical Center, New Orleans, LA - January 28, 2005
35. Invited lecture. "4-1BB-targeted immunotherapy against autoimmune diseases and cancer." FIMSA 2005, Hangzhou, China - April 21, 2005
36. Plenary lecture. "Immunotherapy of autoimmune diseases and cancer." Korean Society of Hematology, Seoul, Korea - May 27, 2005
37. Invited lecture. "Korea on the Move: New Frontier in Biotechnology." BioEurope 2005, Dresden, Germany (Participated as the leader of Invest Korea and KOTRA group) - November 7-10, 2005
38. Plenary lecture. "Immunobiology of costimulatory receptors and ligands". Korean Society of transplantation, Jeonju, Korea – April 8, 2006
39. Invited lecture. "4-1BB-targeted Immunotherapy against autoimmune diseases and cancers." Bristol-Myers-Squibb Company, Princeton, NJ – February 7, 2006
40. Invited lecture. "Bio-Medical Science and Industry in Korea." 3rd EU-Korea Forum, Brussels, Belgium May 23, 2006
41. Invited lecture. "Costimulation and germinal center –targeted immunotherapy." Korea-Swiss Biomedical Symposium, Seoul Korea- May 31-June 1, 2006
42. Invited lecture. "Development of immunotherapeutics targeting regulatory T and germinal center." 3rd Korea-Swiss Biomedical Symposium, Seoul, Korea, May 31-June 1, 2006
43. Plenary lecture. "Basic and clinical research of TNFR family molecules" Korea-Japan Translational Research Conference, Nagoya, Japan- October 14, 2006-12-26
44. Invited lecture. "Development of immunotherapeutics targeting T cell costimulation and germinal centers." Shanghai Immunology Society, Shanghai, China, Oct 6, 2006
45. Plenary lecture. "Inducible costimulation-targeted immunotherapy against cancers and autoimmune diseases." Biologic Asia 2006, Mumbai, India, November 28-30, 2006
46. Invited lecture. "Mechanisms involved in synergistic anti-cancer effect Combination of Chemotherapy and Immunotherapy." National Cancer Center, Korea, Jun 17, 2007
47. Invited lecture. "Mechanisms involved in synergistic anti-cancer effect of combination between chemotherapeutics and anti-4-1BB." New Frontiers in Cancer Immunotherapy, Annecy, France, Jul 9-11, 2007
48. Invited lecture. "Cancer stem cells as a target for immunotherapy." Tulane University, New Orleans LA, March 3, 2008
49. Invited lecture. "Development of CTL Therapeutics." The second international Cell Therapy Conference.", Seoul, Korea November 20, 2008
50. Invited lecture. "Cancer Stem Cells in Head and Neck Cancers." Seoul National University, Seoul, Korea, December 12, 2008
51. Invited lecture. "4-1BB(CD137)-based immunotherapy against cancers", Chang Gung University, Taiwan, August 15, 2009
52. Invited lecture. "4-1BB- based Immunotherapy", National Cancer Center, Tokyo, Japan, January 22, 2010
53. Invited lecture. "Immunotherapy of autoimmune diseases", Hamamatsu University, Hamamatsu, Japan, January 25, 2010
54. Chair and Invited lecture. "4-1BB(CD137)- Mediated Immunotherapy", International Congress of Antibodies ICA-2010, Beijing, China, March 24-26, 2010
55. Invited lecture. "CTL Therapeutics", A-IMBN Annual Conference, Taipei, Taiwan November 11-14,

2010

56. Invited lecturer. "HAR-NDS (Hyaluronic Acid-Rich Node and Duct System) and Stem Cells", Korea Physical Society 2016 KPS Fall Meeting, Korea, October 19-21
57. Invited lecture. "4-1BB-based Adoptive Tcell Therapy", KAI-IBS Joint conference, Korea, November 16-19,2016
58. Invited lecture. "Adoptive 4-1BBCTL Therapy", The 12th Cell therapy conference, China, Beijing, February 24-25,2017
59. Invited lecture. "Interferon-inducible Treg-convertible Anti-cancer Antibody (IRTICA) Therapeutics." Asia Pacific Cancer Conference 2017, Seoul, Korea, June 22, 2017
60. Invited lecture. "Adoptive CAST (cancer antigen-specific T) Cell Therapy", Cell Therapy World Asia, Korea, September 19-20, 2017
61. Invited lecture. "Costimulation-mediated Subset Conversion of CD4+ T Lymphocytes.", Keio-NCC GCSP Communications in Cancer Science, National Cancer Center, Korea, October 31, 2017
62. Invited lecture. "HAR-NDS (Hyaluronic Acid-Rich Node and Duct System): Stem Cells and Innate Immunity.", The 69th Annual Meeting of The Korean Physiological Society, Seoul National University College of Medicine, Seoul, Korea, November 02-04, 2017
63. Invited lecture. "IRTCA: a new paradigm of cancer immunotherapy" 69th Annual Meeting of The Korean Society of Pharmacology, Seoul, Korea, November 07-08, 2017
64. Invited lecture. "Development of MVR CAR T cell therapy", NOV-FEBPS Anti-Cancer Symposium-Cancer Cell Therapy: A New Path to Immuno-Oncology, Seoul, Korea, November 29, 2017
65. Organizing Committee. "Adoptive CAST (cancer antigen-specific T) Cell Therapy", Immune USA 2018, Flamingo, Las Vegas, USA, January 29-31, 2018
66. Invited lecture. "CAR-T cell in solid tumors", 16th KSMO Annual Symposium&General Assembly. Seoul, Korea, May 18,2018
67. Chair, Catholic Blood Hospital Symposium, Seoul, Korea, May 19,2018
68. Invited lecture. "Adoptive CAST (cancer antigen-specific T cell) Therapy" Immunology Conference 2018, Vienna austria, July 05-07, 2018
69. Presentations. "Activation-inducible TNFR family receptor (AITR) signaling mediates the polarization of CD4+ T cells into Th1, Th2, and Th17, converts Treg to T_H17 and eradicates solid tumors", AACR Annual Meeting 2019, Atlanta, USA March 29-April 3, 2019

Book Chapters and Proceedings

1. **Kwon BS**, Gangarosa LP, Wiggins CA, Tuggle CL, Hill JM: Iontophoresis of antivirals for the treatment of herpes simplex virus types 1 and 2 skin infection in hairless mice. In: Current Chemotherapy and Infectious Disease. Proceedings of the 11th International Congress on Chemotherapy and the 19th Interscience Conference on Antimicrobial Agents and Chemotherapy, 1979. JD Nelson, C Grassi, eds. American Society of Microbiology, Washington, DC, 1980, Vol. II, pp. 1363-1364
2. Gangarosa LP Sr., Park NH, **Kwon BS**, Hill JM: Iontophoretic application of antiviral drugs. In: Herpesvirus: Clinical, Pharmacological and Basic Aspects. Proceedings of the International Symposium on Herpesvirus, Tokushima City, Japan, July 27-30, 1982. H Shiota, Y-C Cheng, WH Prusoff, eds. Excerpta Medica (International Congress Series 571), Amsterdam, 1982, pp. 201-204
3. **Kwon BS**, Kim GS, Prystowsky MB, Sabath D, Fitch FW, Weissman SM: A method to isolate concanavalin A-stimulated T-lymphocyte subset-specific cDNA. Presented at UCLA Symposium, Park City, Utah, March 9-16, 1986. *J Cell Biochem Suppl* 10:86 1986

4. Young JD-E, **Kwon BS**, Trapani JA, Liu C-C, Young LH: Lymphocyte-mediated cytotoxicity: role of granule mediators. In: Blood Cell Biochemistry Vol 3, Lymphocytes and Granulocytes. JR Harris, ed. Plenum Press, New York, 1991, pp. 143-162
5. Jimbow KJ, Mintz B, Tomita Y, Jackson IJ, **Kwon BS**, Halaban R, Kradagakis K, Friedman PS: Certain aspects of current progress in melanocyte biology. In: Dermatology Progress & Perspectives. The Proceedings of the 18th World Congress of Dermatology. New York, June 12-18, 1992. WHC Burgdorf, SI Katz, eds. Parthenon Publishing, New York, 1993, pp. 1112-1114
6. **Kwon BS**: 4-1BB, a member of the NGFR/TNFR superfamily is inducible and regulated by early activation events: cell-cell interactions and the cytokines, IL-2 and IL-4, upregulate 4-1BB expression. In: Proceedings of the Biotechnology Workshop. DD Ryu, SS Lee, MH Ham, eds. KSEA Series of Advances in Science and Engineering Volume 1: 1996, pp. 95-106
7. **Kwon BS**, Kim GS, Prystowsky MB, Sabath D, Fitch FW, Weissman SM: A method to isolate concanavalin A-stimulated T-lymphocyte subset-specific cDNA. Presented at UCLA Symposium, Park City, Utah, March 9-16, 1986. *J Cell Biochem Suppl* 10:86
8. Youn BS, **Kwon BS**: MIP-1 γ /MRP-2. In: Cytokine Reference I. JJ Oppenheim, M Feldmann, eds. Academic Press, London, 2000, pp. 1237-1243
9. Youn BS, **Kwon BS**: MuC10/CCL6. In: Cytokine Reference I. JJ Oppenheim, M Feldmann, eds. Academic Press, London, 2000, pp. 1245-1250
10. Youn BS, **Kwon BS**: Leukotactin-1/HCC2/CCL15. In: Cytokine Reference I. JJ Oppenheim, M Feldmann, eds. Academic Press, London, 2000, pp. 1251-1258
11. Youn BS, **Kwon BS**: CK β 8-1/MPIF-1/CCL23. In: Cytokine Reference I. JJ Oppenheim, M Feldmann, eds. Academic Press, London, 2000, pp. 1259-1264
12. Vinay DS, **Kwon BS**: 4-1BB. In: Cytokine Reference II. JJ Oppenheim, M Feldmann, eds. Academic Press, London, 2000, pp. 1685-1689
13. Youn BS, **Kwon BS**: OX40. In: Cytokine Reference I. JJ Oppenheim, M Feldmann, eds. Academic Press, London, 2000, pp. 1749-1753
14. Youn BS, **Kwon BS**: GIT Receptor. In: Cytokine Reference I. JJ Oppenheim, M Feldmann, eds. Academic Press, London, 2000, pp. 1755-1758
15. Choi BK, Vinay DS, **Kwon BS**: Regulators of Regulatory Cells: 4-1BB, A Double-edged Sword. In: ICS 2003 proceedings. Luke O'Neil ed. Monduzzi Editore, 2003, pp. 129-132
16. Vinay DS, **Kwon BS**: Chapter 1. Genes, transcripts and proteins of CD137 receptor and ligand. In: CD137/4-1BB pathways: Immunology and Diseases. L Chen ed., Springer
17. Lee HW, **Kwon BS**: Chapter 2, 4-1BB signal transduction. In: CD137/4-1BB pathways: Immunology and Diseases. L Chen ed., Springer
18. Choi BK, Vinay D, **Kwon BS**: Regulators of Regulatory Cells: 4-1BB, A Double-edged Sword. *J Leuk Biol Intern Proceedings* 2004, pp. 129-132

19. **Kwon BS**: Autoimmune Diseases. Drug Information, 2004, pp.4-10
20. **Kwon BS**: Immunotherapy. Drug Information, 2005, pp. 2-6
21. Vinay DS, **Kwon BS**: Regulatory CD8⁺ T cells In: Recent Development in Immunology (Ed Xiang J). Transworld Research Network, Kerala, India; 2008; pp57-71

PEER-REVIEWED PUBLICATIONS

1. **Kwon BS**, Lee SH, Lee HW: Studies on a method of rapid test for hepatitis-associated antigen and its occurrence in Korea. *Kor J Virol* 3:38-51, 1973
2. Chang WH, **Kwon BS**, Shin YW, Lee SH: Studies on the distribution, infectious patterns and susceptibility to various antibiotics of bacteria isolated from purulent materials. *Seoul J Med* 14:41-48, 1973
3. **Kwon BS**: The distribution, isolate patterns and susceptibilities to antibiotics of bacteria isolated from infectious oro-dental lesion. *J Dental College SNU* 2:53-59, 1977
4. Park NH, Gangarosa LP, **Kwon BS**, Hill JM: Iontophoretic application of adenine arabinoside monophosphate to Herpes Simplex Virus Type 1 - infected hairless mouse skin. *Antimicrob Ag Chemother* 14:605-608, 1978
5. **Kwon BS**, Gangarosa LP, Park NH, Hull DS, Fineberg E, Wiggins C, Hill JM: Effect of iontophoretic and topical application of antiviral agents in treatment of experimental HSV-1 keratitis in rabbits. *Invest Ophthalmol Vis Sci* 18:984-988, 1979
6. **Kwon BS**, Hill JM, Wiggins C, Tuggle C, Gangarosa LP: Iontophoretic application of Ara-AMP for the treatment of HSV-2 skin infections in hairless mice. *J Infect Dis* 140:1014, 1979
7. **Kwon BS**, Gangarosa LP, Burch KD, deBack J, Hill JM: Induction of ocular herpes simplex virus shedding by epinephrine iontophoresis in rabbits. *Invest Ophthalmol Vis Sci* 21:442-449, 1981
8. **Kwon BS**, Gangarosa LP, Green K, Hill JM: Kinetics of ocular herpes simplex virus shedding induced by epinephrine iontophoresis. *Invest Ophthalmol Vis Sci* 22:818-821, 1982
9. Hill JM, **Kwon BS**, Burch KD, Deback J, Whang I, Jones GT, Luke B, Harp R, Shimomura Y, Hull DS, Gangarosa LP: Acyclovir and vidarabine monophosphate: comparison of iontophoretic and intravenous administration for the treatment of HSV-1 stromal keratitis. *Am J Med.* 73:300-4, 1982
10. Hill JM, **Kwon BS**, Shimomura Y, Colborn GL, Yahgmai F, Gangarosa LP: Herpes simplex virus recovery in neural tissue after ocular HSV shedding induced by epinephrine iontophoresis to the rabbit cornea. *Invest Ophthalmol Vis Sci* 24:243-247, 1983
11. Hill JM, Wiggins CA, **Kwon BS**, Gentry GA, Gangarosa LP Sr: Thymine arabinoside (Ara-T) topical and iontophoretic application for herpes simplex virus type 1 and type 2 skin infections in hairless mice. *Methods Find Exp Clin Pharmacol.* 6(1):17-20, 1984

12. **Kwon BS**, Colborn GL, Gangarosa LP, Hill JM: Antibody-dependent cellular cytotoxicity of polymorphonuclear leukocytes and mononuclear cells against HSV-1 infected primary cultures of rabbit corneal epithelium. *Curr Eye Res* 3:1203-1212, 1984
13. **Kwon BS**, Weissman SM: Mouse mammary tumor virus-related sequences in mouse lymphocytes are inducible by 12-O-tetradecanoyl phorbol-13-acetate. *J Virol* 52:1000-1004, 1984
14. Hill JM, Shimomura Y, **Kwon BS**, Gangarosa LP Sr: Iontophoresis of epinephrine isomers to rabbit eyes induced HSV-1 ocular shedding. *Invest Ophthalmol Vis Sci* 26:1299-1303, 1985
15. Kim KS, Ko YK, Moon HM, **Kwon BS**: cDNA cloning and expression of human interferon-gamma in *E. coli*. *Kor J Biochem* 19:266-274, 1986
16. Hill JM, Shimomura T, Dudley JB, Berman E, Haruta Y, **Kwon BS**, Maguire LJ: Timolol induces HSV-1 ocular shedding in the latently infected rabbit. *Invest Ophthalmol Vis Sci* 28:585-590, 1987
17. Demangone M, Hill JM, **Kwon BS**: Effect of acyclovir therapy during simultaneous reactivation of latent HSV-1 in rabbits. *Antiviral Res* 7:237-243, 1987
18. **Kwon BS**, Kim GS, Prystowsky M, Lancki D, Sabath D, Pan J, Fitch F W, Weissman SM: Isolation and initial characterization of multiple species of T-lymphocyte subset-specific cDNA clones. *Proc Natl Acad Sci USA* 84:2896-2900, 1987
19. **Kwon BS**, Haq AK, Pomerantz SH, Halaban R: Isolation and sequence of a cDNA clone for human tyrosinase which maps at the mouse albino locus. *Proc Natl Acad Sci USA* 84:7473-7477, 1987
20. **Kwon BS**, Halaban R, Kim GS, Pomerantz S, Haq A: A melanocyte-specific cDNA clone whose expression is inducible by MSH and IBMX. *Mol Biol Med* 4:339-356, 1987
21. **Kwon BS**, Haq AK, Kim GS, Pomerantz SH, Halaban R: Cloning and characterization of a human tyrosinase cDNA. *Prog Clin Biol Res* 256:273-282, 1988
22. Halaban R, Tamura A, Moellmann G, Kuklinska E, Lerner A, Pomerantz S, **Kwon BS**: Tyrosinase of murine melanocytes with mutations at the c-albino locus. *Proc Natl Acad Sci USA* 85:7241-7245, 1988
23. Halaban R, **Kwon BS**, Ghosh S, Delli Bovi P, Baird A: bFGF as an autocrine growth factor for human melanomas. *Oncogene Res* 3:177-86, 1988
24. Barton D, **Kwon BS**, Francke U: Human tyrosinase gene, mapped to chromosome 11 long arm (q14 q21) identifies second region of homology with mouse chromosome 7. *Genomics* 3:17-24, 1988
25. **Kwon BS**, Wakulchik M, Haq AK, Halaban R, Kestler D: Sequence analysis of mouse tyrosinase cDNA. *Biochem Biophys Res Commun* 153:1301-1309, 1988
26. Ruppert S, Muller G, **Kwon BS**, Schutz G: Multiple transcripts of the mouse tyrosinase gene are generated by alternative splicing. *EMBO J* 7:2715-2722, 1988
27. **Kwon BS**, Kestler D, Lee E, Wakulchik M, Young J: Isolation and sequence analysis of serine protease cDNAs from murine cytolytic T lymphocytes. *J Exp Med* 168:1839-1854, 1988

28. **Kwon BS**, Haq AK, Kim GS, Pomerantz SH, Halaban R: Cloning and characterization of a human tyrosinase cDNA. *Prog Clin Biol Res* 256:273-282, 1988
29. **Kwon BS**, Wakulchik M, Liu C-C, Persechini PM, Trapani JA, Haq AK, Kim Y, Young JD-E: The structure of the mouse lymphocyte pore-forming protein perforin. *Biochem Biophys Res Commun* 158:1-10, 1989
30. **Kwon BS**, Weissman SM: cDNA sequences of two inducible T cell genes. *Proc Natl Acad Sci USA* 86:1963-1967, 1989
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