

CURRICULUM VITAE

Chyung-Ru Wang, Ph.D.

ADDRESS

Department of Microbiology and Immunology, Northwestern University
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EDUCATION:

1979-1982	National Taiwan University, Taiwan	B.S. (Zoology)
1982-1987	University of Texas, Austin, TX	Ph.D. (Biology)

PROFESSIONAL APPOINTMENTS:

1987-1991	Postdoctoral Associate (Mentor: Dr. Kirsten Fischer Lindahl) Howard Hughes Medical Institute, University of Texas Southwestern Medical School
1991-1993	Postdoctoral Associate (Mentor: Dr. Johann Deisenhofer, Nobel Prize Laureate for Chemistry in 1988) Department of Biochemistry, University of Texas Southwestern Medical School
1993-1994	Instructor (Mentor: Dr. Johann Deisenhofer) Department of Biochemistry, University of Texas Southwestern Medical School
1994-2001	Assistant Professor Department of Pathology, University of Chicago
2001-2007	Associate Professor Department of Pathology, University of Chicago
2007-2008	Professor Department of Pathology, University of Chicago
2008-present	Professor Department of Microbiology and Immunology, Northwestern University

HONORS AND AWARDS:

1979-1982	Book Coupon Awards (National Taiwan University, top 5 % of the Class)
1980-1982	Natural Science Fellowship
1982	Member of Phi Tau Phi Scholastic Honor Society
1995	Cancer Research Foundation Young Investigator Awards
1996-1999	Searle Scholars Award
2006	Future Faculty Mentorship Award (University of Chicago)

MEMBERSHIP IN PROFESSIONAL SOCIETIES

1994-present American Society of Immunology

PEER REVIEW EXPERIENCE

Grant review

2001-2004	Member of NIH Special Emphasis Panel
2004-2008	Member of NIH Immunity and Host Defense (IHD) study section
Ad Hoc Review	for the following granting agencies: Yale Skin Diseases Research Core Centers (2000) NIH Experimental Immunology study section (2002) National Science Council, Taiwan (2002) NCI program projects (2003) Swiss National Science Foundation (2003-present) Netherlands Organization for Scientific Research (2007)

Vanderbilt Diabetes Research and Training Center Pilot and Feasibility project (2008)
NIH RFA for mucosal immunity (2009)

Journal review

Review for the following journals:

- Nature Immunology
- Nature Review of Immunology
- Immunity
- Journal of Experimental Medicine
- Journal of Clinical Investigation
- PNAS
- Blood
- Journal of Immunology
- Molecular and Cell Biology
- Trends in Immunology
- Trends in Molecular Medicine
- Journal of Virology
- Infection and Immunity
- Gastroenterology
- Immunogenetics
- Cellular Immunology

DEPARTMENTAL COMMITTEES

- 1999-2000 Dean’s Task Force on Animal Research, U of Chicago
- 1999-2000 Immunology Search Committee for Ben May Institute for Cancer Research
- 1999-2002 Institutional Animal Care and Use Committee, U of Chicago
- 2002-2003 Immunology Search Committee for Gwen Knapp Center, U of Chicago
- 2002-2003 Immunology Training Grant Steering Committee, U of Chicago
- 2002-2004 Organized Committee for Immunology seminar series, U of Chicago
- 2003-2008 Reviewer for Faculty Awards, U of Chicago
- 2005-2008 THP Training Grant Steering Committee, U of Chicago
- 2006-2008 Faculty Advisory Committee for Flow Cytometry Facility, U of Chicago
- 2009 Immunology Search Committee, Northwestern University
- 2009 Steering Committee for Lectures in Life Science, Northwestern University

TEACHING/MENTORING EXPERIENCE

--- COURSES

Undergraduate course

- 1997-2008 Immune System in Health and Disease (Course Coordinator), U of Chicago

Graduate course

- 1995-1998 Introduction to Molecular Techniques (12 hours/year), U of Chicago
- 1995-2005 Advance Immunology (3 lectures/year, 1.5 hr/lecture), U of Chicago
- 1996-2008 Defense Mechanisms (6 lectures/year), U of Chicago

--- THESIS/UNDERGRADUATE RESEARCH SPONSORSHIPS

Student's name	Training period	Degree	Current position
Nancy Chiu	1995-2000	M.D./Ph.D.	Fellow, Columbia University
Holly Smiley	1995-1997	M.S.	Unknown (she left the Ph.D program due to family situation)
Carrie Milligan	1996-1998	B.S.	Resident, Harvard Medical School
Hoon Shim	2000-2001	B.S.	Medical student, Virginia University School of Medicine
Hanh Nguyen	1999-2005	Ph.D.	Currently between positions

Katerina Olexy Radkevich	2000-2002	B.S.	Medical student, Albert Einstein College of Medicine
Angela Colmone	2001-2006	Ph.D.	Postdoc, Department of Medicine, University of Chicago
Kyrie Felio	2003-present	Ph.D.	Graduate student, University of Chicago
Sha Li	2004-present	Ph.D.	Graduate student, University of Chicago
Chiamin Liao	2006-present	Ph.D.	Visiting student, National Taiwan University
Timothy Yaw Bediako	2008-present	Ph.D.	Graduate student, Northwestern University
Suchitra Prasad	2009-present	Ph.D.	Graduate student, Northwestern University

--- POSTDOCTORAL FELLOWS

Fellow's name	Training period	Award	Current position
Manus Mandel	1994-1997		Research Assistant Professor, University of Michigan
Yi-Hua Chen	1995-1998		Assistant Professor, Northwestern University, Chicago
Bin Wang	1997-2000		Research Assistant Professor, University of British Columbia
Fengshou Lan	1999-2001		Resident, Bronx-Lebanon Hospital, New York
Taehoon Chun	1998-2002	Cancer Research Institute Postdoctoral fellowship	Associate Professor, Korea University, Seoul, South Korea
Hongzhi Chen	2001-2003		Unknown (he left my lab due to the physical illness)
Yan-Biao Geng	2000-2006		Instructor, Loyola University
Honglin Xu	2002-2006		Principle Investigator, National Vaccine and Serum Institute, Beijing, China
Gayatri Raghuraman	2004-2007		Research Professional, University of Chicago
Mike Zimmer	2002-2008	NIH NRSA fellowship	Assistant Professor, Purdue University, Indiana
Hak-Jong Choi	2003-present		Postdoctoral scholar
Hoonsik Cho	2006-present		Postdoctoral scholar
Jie Zhao	Expected to join the lab in 2009		Postdoctoral scholar

PRESENT FUNDING

Principal Investigator, NIH R01
 "The Role of MHC class Ib in T Cell Development and Infectious Disease"
 Grant No. 2R01AI40310
 Funding period: 8/1/07-7/31/11

Principal Investigator, NIH R01
 "The Regulation and Function of CD1d-restricted T Cells"
 Grant No. 2R01AI43407
 Funding period: 8/1/07-7/31/12

Principle Investigator, NIH R01
“Group 1 CD1 in Infectious Disease and T Cell Development”
Grant No. 1R01AI57460
Funding period: 12/01/03-11/30/09

SEMINAR AND MEETING PRESENTATIONS (since ‘99)

January 1999	Keystone symposium on Immunogenetics of human disease-MHC/TCR and peptide. Taos, NM.
April 1999	Workshop on NK T cells and CD1 mediated antigen presentation. San Diego, CA.
May 1999	Annual meeting of Searle Scholar Program, Chicago, IL.
October 1999	Second international workshop on antigen processing and presentation. Bar Harbor, ME.
November 1999	Annual meeting of the American college of veterinary pathologist and the American society for veterinary clinical pathology. Chicago, IL.
April 2000	Department of Microbiology and Immunology. Emory University, Atlanta, GA.
May 2000	American Association of Immunologists Meeting, Seattle, WA. Co-chaired session on “Immunity to bacterial pathogens”.
September 2000	Immunology program, University of Pennsylvania, Philadelphia, PA.
November 2000	Department of Microbiology and Immunology, University of Vanderbilt.
April 2001	Society for Natural Immunity Symposium, Orlando, FL.
April 2001	American Association of Immunologists Meeting, Orlando, FL. Chaired session on “T cell development and activation”
February 2002	Department of Zoology, National Taiwan University, Taipei, Taiwan
May 2002	Third international workshop on antigen processing and presentation. Paris, France.
November 2002	Workshop on NK T cells and CD1 mediated antigen presentation. New York. (Advisory committee)
September 2003	Brigham and Women's Hospital& Harvard Medical School, Boston, MA.
November 2003	Autumn Immunology Conference, chaired session on “Innate Immunity”
April 2004	Cancer Research Center, University of Chicago.
August 2004	10th SCBA International Symposium, Beijing, China.
September 2004	Workshop on NK T cells and CD1 mediated antigen presentation. Australia. (Advisory committee)
September 2004	Fourth international workshop on antigen processing and presentation. Bar Harbor.
November 2004	Department of Molecular Microbiology and Immunology, Brown University.
February 2005	Department of Pathology, University of Massachusetts Medical School.
February 2005	Brigham and Women's Hospital& Harvard Medical School, Boston, MA.
March 2005	Center for Immunology, UT Southwestern Medical School, Dallas, TX.
April 2005	Immunology program, University of Pennsylvania, Philadelphia, PA.
May 2006	Department of Immunology, Mayo Clinics, Rochester, MN.
July 2006	Department of Zoology, National Taiwan University, Taipei, Taiwan.
October 2006	Workshop on NK T cells and CD1 mediated antigen presentation. Italy. (Advisory committee)
October 2006	Department of Pathology, University of Chicago, Chicago, IL.
May 2007	Department of Biochemistry, Korea University, Seoul, South Korea.
June 2007	Department of Microbiology and Immunology, Northwestern University, Chicago, IL.
August 2007	Department of Zoology, National Taiwan University, Taipei, Taiwan.
October 2007	Department of Infectious Diseases, University of Georgia, Athens, GA.
February 2008	Keystone symposium on NK and NKT cells, Keystone, CO.
June 2008	Summer Symposium in Molecular Biology, Pennsylvania State University, University Park, PA.
September 2008	Department of Microbiology and Immunology, Northwestern University, Chicago, IL.
March 2009	Immunology of Malaria Workshop, NIAID, NIH, Bethesda, MD.

April 2009	Department of Veterinary Microbiology, University of Saskatchewan, Saskatoon, Canada
June 2009	The third international symposium on Infection and Immunity, Lijiang, China
August 2009	Institute of Molecular Biology, Academic Sinica, Taipei, Taiwan
November 2009	Department of Microbiology and Immunology, University of Virginia, Charlottesville, VA.

PUBLICATIONS

1. Wang, C.-R., Chen, G.-H. & Mandy, W. J. (1987) Identification of a rabbit class-I like thymocyte specific antigen. *J. Immunol.* 138: 3352-3359.
2. Simmons, R. D., Buzbee, T. M., Linthicum, D. S., Mandy, W. J., Chen, G.-H. & Wang, C.-R. (1987) Simultaneous visualization of vascular permeability change and leukocyte egress in the central nervous system during experimental autoimmune encephalomyelitis. *Acta Neuropathologica* 74: 191-193.
3. Wang, C.-R., Chen, G.-H., Newkirt, M., Capra, D. & Mandy, W. J. (1988) Biochemical properties of a novel rabbit thymocyte specific class-I like antigen. *Mol. Immunol.* 25: 945-952.
4. Fischer Lindahl, K., Hermel, H., Loveland, B. E., Richards, S., Wang, C.-R. & Yonekawa, H. (1989) Molecular definition of a mouse minor histocompatibility antigen. *Cold Spring Harbor Symp. Quant. Biol.* 54: 563-569.
5. Loveland, B., Wang, C.-R., Yonekawa, H., Hermel, E. & Fischer Lindahl, K. (1990) The maternally transmitted factor (Mtf), a mouse minor histocompatibility antigen, identified as a hydrophobic peptide derived from the mitochondrially encoded NDI protein. *Cell* 60: 971-980.
6. Wang, C.-R., Loveland, B. & Fischer Lindahl, K. (1991) *H-2M3* encodes the MHC class I molecule presenting the maternally transmitted antigen of the mouse. *Cell* 66: 335-345.
7. Fischer Lindahl, K., Hermel, E., Loveland, B. & Wang, C.-R. (1991) Maternally transmitted antigen of mice-a model transplantation antigen. *Annu. Rev. Immunol.* 9: 351-372.
8. Palmer, E., Wang, C.-R., Flaherty, L., Fischer Lindahl, K. & Bevan, M. J. (1992) *H-2M3* presents a *Listeria monocytogenes* peptide to cytotoxic T lymphocytes. *Cell* 70: 215-223.
9. Wang, C.-R., Livingstone, A., Butcher, G. W., Hermel, E., Howard, J. C. & Fischer Lindahl, K. (1992) Antigen presentation by neoclassical MHC class I gene products in murine rodents. Molecular Evolution of the Major Histocompatibility complex. Springer-Verlag, Berlin Heidelberg, 441-462.
10. Wang, C.-R. & Fischer Lindahl, K. (1993) HMT, encoded by *H-2M3*, is neoclassical major histocompatibility class I antigen. *Proc. Natl. Acad. Sci. U. S. A.* 90: 2784-2788.
11. Wang, C.-R. & Fischer Lindahl, K. (1993) Organization and structure of the *H-2M4-8* class I genes in the major histocompatibility complex. *Immunogenetics* 38: 258-271.
12. Wang, C.-R., Lambracht, D., Wonigeit, K., Howard, J. C. & Fischer Lindahl, K. (1995) Rat RT1 orthologs of mouse H2-M class Ib genes. *Immunogenetics* 42: 63-67.
13. Wang, C.-R., Castaño, R., Peterson, P. A., Slaughter, C., Fischer Lindahl, K. & Deisenhofer, J. (1995) Nonclassical binding of formylated peptide in crystal structure of MHC class Ib molecule, H2-M3. *Cell* 82: 655-664.
14. Fischer Lindahl, K., Dahbi, V. M., Hovik, R., Smith, G. P. & Wang, C.-R. (1995) Presentation of N-formylated peptides by H2-M3. *Biochemical Society Transactions* 23: 669-674.
15. Wang, C.-R., Fischer Lindahl, K. & Deisenhofer, J. (1996) Crystal structure of the MHC class Ib molecule H2-M3. *Research in Immunology* 5: 313-321.
16. Wang, C.-R., Esser, L., Smagula, C. S., Südhof, T. C. & Deisenhofer, J. (1997) Identification, expression and crystallization of the protease-resistant conserved domain of synapsin I. *Protein Science* 6: 1-4.
17. Fischer Lindahl, K., Byers, D., Dahbi, V. M., Hovik, R., Jones, E. P., Smith, G. P., Wang, C.-R., Xiao, H., & Yoshino, M. (1997) H2-M3, a full-service class Ib histocompatibility antigen. *Annu. Rev. Immunol.* 15: 851-879.
18. Chen, Y.-H., Chiu, N. M., Mandal, M., Wang, N. & Wang, C.-R. (1997) Impaired NK1⁺ T cell development and early IL-4 production in CD1-deficient mice. *Immunity* 6: 459-467.

19. Arepalli, S. R., Jones, E. P., Howcroft, T. K., Carlo, I., Wang, C.-R., Fischer Lindahl, K., Singer, D. S., & Rudikoff, S. (1998) Characterization of two class I genes from the *H2-M* region: evidence for a new subfamily. *Immunogenetics* 47: 264-271.
20. Esser, L., Wang, C.-R., Hosaka, M., Smagular, C. S., Südhof, T. C., & Deisenhofer, J. (1998) Synapsin I is structurally similar to ATP-utilizing enzymes. *EMBO J.* 17: 977-984.
21. Bird, J. J., Brown, D. R., Mullen, A. C., Moskowicz, N. H., Gajewski, T. F., Wang, C.-R. & Reiner, S. L. (1998) Helper T cell differentiation is controlled by the cell cycle. *Immunity* 9: 229-237.
22. Mandal, M., Chen, X.-R., Alegre, M.-L., Chiu, N. M., Chen, Y.-H., Castaño, A. R. & Wang, C.-R. (1998) Tissue distribution, regulation and intracellular localization of murine CD1 molecules. *Mol. Immunol.* 35: 525-536.
23. Behar, S. M., Podrebarac, T. A., Roy, C., Wang, C.-R. & Brenner, M. B. (1999) Diverse T cell receptors recognize murine CD1. *J. Immunol.* 162: 161-167.
24. Chen, Y.-H., Wang, B., Zhao, L., Cardell, S., Wang, N. & Wang, C.-R. (1999) The expression of CD1.2 on thymocytes is not sufficient for the development of NK T cells in CD1d1-deficient mice. *J. Immunol.* 162: 4560-4566.
25. Behar, S. M., Dascher, C. C., Grusby, M. J., Wang, C.-R. & Brenner, M. B. (1999) Susceptibility of mice deficient in CD1D or TAP1 to infection with *Mycobacterium tuberculosis*. *J. Exp. Med.* 189: 1973-1980.
26. Chiu, N., Chun, T., Fay, M., Mandal, M. & Wang, C.-R. (1999) The majority of H2-M3 is retained intracellularly in a peptide-receptive state and traffics to the cell surface in the presence of *N*-formylated peptides. *J. Exp. Med.* 190: 423-434.
27. Park, S.-H., Guy-Grand, D., Lemonnier, F. A., Wang, C.-R., Bendelac, A. & Jabri, B. (1999) Selection and expansion of CD8 $\alpha\alpha$ ⁺TCR $\alpha\beta$ ⁺ intestinal intraepithelial lymphocytes in the absence of both classical MHC class I and nonclassical CD1 molecules. *J. Exp. Med.* 190: 885-890.
28. Chiu, N. M., Wang, B., Kerksiek, K. M., Kurlander, R., Pamer, E. G. & Wang, C.-R. (1999) The selection of M3-restricted T cell is dependent on M3 expression and presentation of *N*-formylated peptides in the thymus. *J. Exp. Med.* 190: 1869-1878.
29. Wang, B., Chen, Y.-H. & Wang, C.-R. (2000) Comparative contribution of CD1 to development of the CD4⁺ and CD8⁺ T cell compartments. *J. Immunol.* 164: 739-745.
30. Walunas, T. L., Wang, B., Wang, C.-R. & Leiden, J. M. (2000) The Ets1 transcription factor is required for the development of NK T cells in mice. *J. Immunol.* 164: 2857-2860.
31. Sköld, M., Faizunnessa, N. N., Ericsson, A., Wang, C.-R. & Cardell, S. (2000) CD1d-specific NK1.1⁺ T cells with a transgenic variant T cell receptor. *J. Immunol.* 165: 168-174.
32. Ober, B. T., Hu, Q., Opferman, J. T., Hagevik, S., Chiu, N., Wang, C.-R. & Ashton-Rickardt, P. (2000) Affinity of thymic self-peptides for TCR determines the selection of CD8⁺ T lymphocytes in the thymus. *Int. Immunol.* 12: 1353-1363.
33. Matsuda, J. L., Naidenko, O. V., Gapin, L., Nakayama, T., Taniguchi, M., Wang, C.-R., Koezuka, Y. & Kronenberg, M. (2000) Tracking the response of NK T cells to a glycolipid antigen using CD1d tetramers. *J. Exp. Med.* 192: 741-754.
34. Seaman, M. S., Wang, C.-R. & Forman, J. (2000) MHC class Ib-restricted CTLs provide significant protection against primary and secondary *Listeria monocytogenes* infection. *J. Immunol.* 165: 5192-5201.
35. Dang, Y., Beckers, J., Wang, C.-R. & Heyborne, K. D. (2000) NK1.1⁺ $\alpha\beta$ T cells and CD1 in the periimplantation uterus. *Immunology* 101: 484-491.
36. Wang, B., Chun, T., Rulifson, I. C., Exley, M., Balk, S. P. & Wang, C.-R. (2001) Human CD1d functions as a restriction element and a transplantation antigen in mice. *J. Immunol.* 166: 3829-3836.
37. Chun, T., Serbina, N. V., Dawn N., Wang, B., Chiu, N. M., Flynn, J. L. & Wang, C.-R. (2001) Induction of M3-restricted CTL responses by *N*-formylated peptides derived from *Mycobacterium tuberculosis*. *J. Exp. Med.* 193: 1213-1220.
38. Chun, T., Grandea III, A. G., Lybarger, L., Forman, J., Van Kaer, L. & Wang, C.-R. (2001) Functional roles of TAP and tapasin in the assembly of M3/*N*-formylated peptide complexes. *J. Immunol.* 167: 1507-1514.
39. Lybarger, L., Yu, Y. Y. L., Chun, T., Wang, C.-R., Grandea III, A. G., Van Kaer, L. & Hansen T. H. (2001) Tapasin enhances peptide-induced expression of the MHC class Ib molecule, M3, but is not required for the retention of open conformers. *J. Immunol.* 167: 2097-2105.

40. Wang, B., Geng, Y.-B. & Wang, C.-R. (2001) CD1-restricted NK T cells protect nonobese diabetic mice from developing diabetes. *J. Exp. Med.* 194: 313-319.
41. Wang, J., Chun, T., Lo, J. C., Wu, Q., Wang, Y., Foster, A., Roca, K., Chen, M., Tamada, K., Chen, L., Wang, C.-R. & Fu, Y-X. (2001) The critical role of LIGHT, a TNF family member, in T cell development. *J. Immunol.* 167: 5099-5105.
42. Chun, T., Page, M. J., Gapin, L; Matsuda, J. L., Xu, H., Nguyen, H., Kang, H.-S., Stanic, A., Joyce, S., Koltun, W. A., Kronenberg, M. & Wang, C.-R. (2003) CD1d-expressing dendritic cells but not thymic epithelial cells can mediate negative selection of NKT cells. *J. Exp. Med.* 197: 907-918.
43. Xu, H., Chun, T., Colmone, A., Nguyen, H. & Wang, C.-R. (2003) Expression of CD1d under the control of a MHC class Ia promoter skews the development of NKT cells, but not CD8⁺ T cells. *J. Immunol.* 171: 4105-4112.
44. Yang, J.-Q., Saxena, V., Chun, T., Xu, H., Hong, S., Van Kaer, L., Wang, C.-R. & Singh, R. R. (2003) Repeated alpha-galactosylceramide administration results in expansion of NK T cells and alleviates inflammatory dermatitis in MRL-lpr/lpr mice. *J. Immunol.* 171: 4439-4446.
45. Wilson, M. T., Johansson, C., Olivares-Villagómez, D., Singh, A.K., Stanic, A. K., Wang, C.-R., Joyce, S., Wick, M. J. & Van Kaer, L. (2003) Unexpected population dynamics of NKT cells in response to glycolipid antigen. *Proc. Natl. Acad. Sci. U. S. A.* 100: 10913-10918.
46. Shen, Y., Zhukorskaya, N. L., Zimmer, M. I., Soelaiman, S., Bergson, P., Wang, C.-R., Gibbs, C. S. & Tang, W.J. (2004) Selective inhibition of anthrax edema factor by adefovir, an approved drug against the infection of hepatitis B virus. *Proc. Natl. Acad. Sci. U. S. A.* 101: 3242-3247.
47. Yang, J.-Q., Chun, T., Liu H., Hong, S., Bui, H., Van Kaer, L., Wang, C.-R. & Singh, R. R. (2004) CD1d-deficiency exacerbates inflammatory dermatitis in MRL-lpr/lpr mice. *Eur. J. Immunol.* 34: 1723-1732.
48. Parekh, V. V., Singh, A. K., Wilson, M. T., Olivarse-Villagomez, D., Inazawa, H., Ehara, H., Sakai, T., Serizawa, I., Wu, L., Wang, C.-R., Joyce, S. & Van Kaer, L. (2004) Quantitative and qualitative differences in the in vivo responses of NKT cells to distinct α - and β -anomeric glycolipids. *J. Immunol.* 173: 3693-3706.
49. Lin, Y., Roberts, T. J., Wang, C.-R., Cho, S. & Brutkiewicz, R. R. (2005) Long-term loss of canonical NKT cells following an acute virus infection. *Eur. J. Immunol.* 35: 879-889.
50. Geng, Y., Laslo, P., Barton, K., Singh, H. & Wang, C.-R. (2005) Transcription regulation of CD1d1 by Ets family members. *J. Immunol.* 175: 1022-1029.
51. Parekh, V. V., Wilson, M. T., Olivarse-Villagomez, D., Singh, A. K., Wu, L., Wang, C.-R., Joyce, S. & Van Kaer, L. (2005) Glycolipid antigen induces long-term NKT cell anergy in mice. *J. Clin. Inv.* 115: 2572-2583.
52. Singh, A. K., Yang, J. Q., Parekh, V. V., Wei, J., Wang, C.-R., Joyce, S., Singh, R. R. & Van Kaer, L. (2005) The natural killer T cell ligand alpha-galactosylceramide prevents or promotes pristane-induced lupus in mice. *Eur. J. Immunol.* 35: 1143-1154.
53. Zimmer, M. I., Colmone, A., Felio, K., Ma, A. & Wang, C.-R. (2006) A cell-type specific CD1d expression program modulates iNKT cell development and function. *J. Immunol.* 176: 1421-1430.
54. Xu, H. Chun, T., Choi, H.-K., Wang B. & Wang, C.-R. (2006) Impaired response to *Listeria* in H2-M3-deficient mice reveals a nonredundant role of MHC class Ib-specific T cells in host defense. *J. Exp. Med.* 203: 449-459.
55. McNERney, M. E., Lee, K. M., Zhou, P., Molinero, L., Mashayekhi, M., Guzior, D., Sattar, H., Kuppireddi, S., Wang, C.-R., Kumar, V. & Alegre, M. L. (2006) Role of natural killer cell subsets in cardiac allograft rejection. *Am. J. Transplant.* 6: 505-513.
56. Zhang, M., Park, S.-M., Wang, Y., Shah, R., Liu, N., Murmann, A. E., Wang, C.-R., Peter, M. E. & Ashton-Rickardt, P. G. (2006) Serine protease inhibitor 6 protects cytotoxic T cells from self-inflicted injury by ensuring the integrity of cytotoxic granules. *Immunity* 24: 451-461.
57. Anand, S., Wang, P., Yoshimura, K., Choi, I.-H., Hilliard, A., Chen, Y. H., Wang, C.-R., Schulick, R., Flies, A. S., Flies, D. B., Zhu, G., Xu, Y., Pardoll, D. M., Chen, L. & Tamada, K. (2006) Essential role of TNF family molecule LIGHT as a cytokine in the pathogenesis of hepatitis. *J. Clin. Inv.* 116: 1045-1051.
58. Colmone, A. & Wang, C.-R. (2006) H2-M3-restricted T cell response to infection. *Microbes and Infection.* 8: 2277-2283.
59. Colmone, A., Li, S. & Wang, C.-R. (2006) Activating transcription factor/cAMP response element binding protein family member regulated transcription of *CD1A*. *J. Immunol.* 177:7024-7032.

60. Chen, L., Wang, T., Qhou, P., Ma, L., Yin, D., Shen, J., Molinero, L., Nozaki, T., Phillips, T., Uematsu, S., Akira, S., Wang, C.-R., Fairchild, R.L., Alegre, M. L., Chong, A. (2006) TLR engagement prevents transplantation tolerance. *Am. J. Transplant.* 6:2282-2291.
61. Raghuraman, G., Geng, Y. & Wang, C.-R. (2006) Interferon β -mediated CD1d up-regulation in bacteria infected antigen-presenting cells. *J. Immunol.* 177:7841-7848.
62. Shi, M. Q., Wang, C.-R., Wei, G. J., Pan, W. L., Appleyard, G., Tabel H. (2006) Experimental African trypanosomiasis: lack of effective CD1d-restricted antigen presentation. *Parasite Immunol.* 28:643-647.
63. VanderLaan, P.A., Reardon, C. A., Sagiv, Y., Blachowicz, L., Lukens, J., Nissenbaum, M., Wang, C.-R., and Getz, G. S. (2007) Characterization of the natural killer T-cell response in an adoptive transfer model of atherosclerosis. *Am. J. Pathology* 170:1100-1107.
64. Zheng, X., Zhang, H., Yin, L., Wang, C.-R., Liu, Y., & Zheng, P. (2008) Modulation of NKT cell development by B7-CD28 interaction: an expanding horizon for costimulation. *pLoS ONE.* 3: e2703.
65. Wang, T., Chen, L., Ahmed, E., Ma, L., Yin, D., Zhou, P., Shen, J., Xu, H., Wang, C.-R., Alegre, M. L., Chong, A. (2008) Prevention of allograft tolerance by bacterial infection with *Listeria monocytogenes*. *J. Immunol.* 180:5991-5999.
66. Swanson, P. A., Pack, C. D., Hadley, A., Wang, C.-R., Stroynowski, I., Jensen, P. E. & Lukacher A. E. (2008) A MHC class Ib-restricted CD8 T cell response confers antiviral immunity. *J. Exp. Med.* 205:1647-1657.
67. Cho, H. Xu, H., Geng, Y. Colmone, A., Cho, H. & Wang, C.-R. (2008) Bacterial infection alters the kinetics and function of iNKT cell responses. *J. Leukocyte Biol.* 84:1462-1471.
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