



National Institutes of Health  
National Institute of Dental  
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Bethesda, Maryland 20892

**CURRICULUM VITAE**

**November, 2011**

**Personal data**

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**Education:**

- 1984 M.D. Qingdao University Medical School (formerly Qingdao Medical College), Qingdao, China
- 1987 M.S. Immunology, Shandong University Medical School and Shandong Academy of Medical Sciences, Jinan, China
- 1993-1996 Postdoctoral Research, Immunology, Harvard Medical School, Boston

**Employment history:**

- 2011- Senior Investigator, Chief, Mucosal Immunology Section, OIIB, National Institute of Dental and Craniofacial Research, NIH
- 2004-2011 Tenure-track Investigator, Mucosal Immunology Unit, National Institute of Dental and Craniofacial Research, National Institutes of Health
- 1997-2003 Senior Staff Fellow, Cellular Immunology Section, Oral Infection and Immunity Branch, National Institute of Dental and Craniofacial Research, National Institutes of Health
- 1993-1996 Postdoctoral Fellow, Center for Neurological Diseases, Brigham and Women's Hospital, Harvard Medical School, Boston, MA
- 1989-1992 Visiting Scientist, The Institute of Immunology and Institute for Blood Group Serology, University of Vienna, Vienna, Austria

- 1987-1989 Instructor, The Department of Immunology, Shandong Academy of Medical Sciences, Jinan, China
- 1984-1987 Research Assistant, The Department of Immunology, Shandong Academy of Medical Sciences, Jinan, China
- 1983-1984 Intern in Medicine, Qingdao Municipal Hospital, Qingdao, China

**Honors and Awards:**

- 1982, The Medical Student Oral Presentation Contest Award, Qingdao University Medical School, China
- 1989, The Chinese Shandong Award (Third Place) for Development of Science and Technology, China
- 1989, The Chinese Shandong Award (Second Place) for Development of Science and Technology, China
- 1989, The Chinese Youth Microbiologists and Immunologists Award, China
- 1990, The Young Investigator Award of Third IIGB International Workshop on MHC Gene Molecular Biology, Italy
- 1989-1991, Austrian North-South Organization Scholarship, University of Vienna, Austria
- 2000, The Young Investigator Award of The Second European Workshop on Cell Death -Apoptosis 2000, Italy
- 2000, NIDCR Scientific Director's Postdoctoral Travel Award in Recognition of Outstanding Achievements in Oral Health and Craniofacial Research, NIH
- 2002, NIH Excellent Research Article Award for Year 2000-2001, NIH Cytokine Interest Group, NIH
- 2004, Nominated by NIDCR for 2004 the USA Presidential Early Career Awards for Scientists and Engineers Program
- 2004, Grant from NIH Intramural AIDS Targeted Antiviral Program (IATAP), \$140,000, NIH
- 2005, Interviewed by *Science* magazine for an article " Success Factors for

Postdocs”, published on *Science*, Aug 12

2008, Highlighted in the Newsletter of International Society for Interferon and Cytokine Research, April 2008, Vol. 15, No.1

2008, Award for an “Extremely Exceptional Lecture” at the International Conference on Frontiers of Dental and Craniofacial Research, Beijing, China

2008, Invited Speaker, NIDCR Council Meeting for the NIDCR 60th Anniversary Celebration, Bethesda

2006, 2007, 2009, Nominated for the NIH Immunology Interest Group Steering Committee, NIH

2009, Milstein Travel Award, International Society for Interferon and Cytokine Research, Tri-Society Annual Conference, Lisbon

2009, Invited Speaker, NIH Director’s Seminar Series (2009-2010), NIH

2011, The Wang Ying-Lai Memorial Lecture, Annual Meeting of The Texas Chapter of Society of Chinese Bioscientists in America (SCBA), Houston

### **Editorial Responsibilities and Journal Reviewing Activities:**

*Ad hoc* Reviewer for Nature Medicine, Nature Immunology, Science Signaling, Immunity, Journal of Experimental Medicine, Journal of Clinical Investigation, Blood, Journal of Immunology, Trends in Immunology, Transplantation, Circulation, European Journal of Immunology, European Journal of Cell Biology, Rheumatology, FASEB Journal, International Immunology, Molecular Therapy, Frontiers in Bioscience, Expert Review of Clinical Immunology, Cellular Immunology, Journal of Leukocyte Biology, International Journal of Biological Sciences

### **Invited Presentations:**

1991, Symposium Presentation, Annual Meeting of Austrian Society of Immunology and Allergology, Vienna, Austria

1995, Symposium Presentation, 9<sup>th</sup> International Congress of Immunology, San Francisco

1996, Symposium Presentation, FASEB Joint Meeting, New Orleans

- 1999, Invited Speaker, Laboratory of Clinical Investigation, NIAID, NIH, Bethesda
- 1999, Invited Speaker, NIH Cytokine Interest Group Symposium, NIH, Bethesda
- 2000, Invited Speaker, The Central Laboratory for Experimental Medicine, Taian Zhongxin Hospital, Taian, China
- 2000, Invited Speaker, Department of Immunology, Taishan Medical College, Taian, China
- 2000, Symposium Presentation, The Second European Workshop on Cell Death-Apoptosis 2000, Italy
- 2000, Symposium Presentation, NIH Immunology Interest Group Retreat, Virginia
- 2001, Invited Speaker, Department of Microbiology and Immunology, Wake Forest University Medical School, North Carolina
- 2001, Symposium Presentation, NIH Immunology Interest Group Retreat, Virginia
- 2001, Symposium Presentation, ISICR, SLB, ICS Joint Annual Meeting, *Cytokine Odyssey*, Hawaii
- 2002, Invited Speaker, NIH Cytokine Interest Group Symposium, NIH, Bethesda
- 2002, Symposium Presentation, FASEB Joint Meeting, New Orleans
- 2002, Invited Speaker, Department of Microbiology and Immunology, Georgetown University, Washington DC
- 2002, Invited Speaker, Department of Medicine and Immunology, University of Toronto, Canada
- 2002, Symposium Presentation, NIH Immunology Interest Group Retreat, Virginia
- 2003, Invited Speaker, NIH Cytokine Interest Group Symposium, NIH, Bethesda

2003, Invited Speaker, Oral Infection and Immunity Branch, NIDCR, NIH, Bethesda

2003, Invited Speaker, Stroke Branch, NINDS, NIH, Bethesda

2003, Symposium presentation, NIH Immunology Interest Group Retreat, Virginia

2004, Symposium Presentation, AAI- FASEB Joint Meeting, Washington DC

2004, Symposium Presentation, 12<sup>th</sup> ICI and 4<sup>th</sup> FOCIS conference, Montreal, Canada

2004, Invited Keynote Speaker, Annual Meeting of Austrian Immunology and Allergology, Vienna, Austria

2005, Invited Speaker, Functional Genomics Section, LCDB, NIDCR, NIH, Bethesda

2005, Invited Speaker, Symposium of Autoimmunity and Inflammation, Washington DC

2005, Symposium Speaker, 2005 ISICR Annual Meeting, Shanghai, China

2006, Invited Speaker, George Mason University, Virginia

2006, Invited Speaker, NIDCR Salivary Gland Symposium, NIH, Bethesda

2007, Invited Speaker, NIDCR Tenure-track Seminar Series, NIH, Bethesda

2007, Symposium Presentation, International Conference of Mucosal Immunology, 2007, Japan

2007, Symposium Speaker, International Conference on Immunology 2007, Shanghai, China

2008, Invited Speaker, NIH Mucosal Immunology Interest Group, NIH, Bethesda

2008, Invited Speaker, Department of Pathology, University of Pennsylvania School of Medicine, Philadelphia

2008, Invited Speaker, Gene Therapy Branch, NIDCR, NIH, Bethesda

- 2008, Invited Speaker, INSERM U645, Besancon, France
- 2008, Invited Speaker, NIDCR Council Meeting for the NIDCR 60th Anniversary Celebration, NIH, Bethesda
- 2008, Invited Speaker, The 8<sup>th</sup> International Beaune Seminar in Transplant Research, Beaune, France
- 2008, Invited Speaker, Department of Medicine, Northwestern University, Chicago
- 2008, Invited Plenary Speaker, International Conference on Regulatory T Cells and Clinical Application in Human Diseases, Beijing, China
- 2008, Invited Speaker, The Institute of Biochemistry and Biology, Chinese Academy of Science, Shanghai, China
- 2008, Invited Speaker, Symposium “Immunotherapy vs. Immunosuppression”, NIH Research Festival, NIH, Bethesda
- 2008, Invited Plenary Speaker, International Conference on Frontiers of Dental and Craniofacial Research, Beijing, China
- 2008, Invited Speaker, Tsinghua University Medical School, Beijing, China
- 2008, Invited Speaker, The Washington DC-Baltimore Chapter, Society of Chinese Bioscientists in America (SCBA), Rockville, MD
- 2008, Invited Speaker, University of Illinois at Chicago, Chicago
- 2009, Symposium Speaker, Keystone Symposium, “Allergy and Asthma” Keystone, Colorado
- 2009, Invited Speaker, The Distinguished Lecturer Series, Boston University Goldman School of Dental Medicine, Boston
- 2009, Invited Speaker, The Rheumatology Conference Series, University of Chicago, Chicago
- 2009, Invited Plenary Speaker, Keystone Symposium, “Regulatory T cells”, March, Keystone, Colorado
- 2009, Invited Speaker, Immunology Seminar Series, Baylor College of

Medicine, March, Houston

- 2009, Invited Speaker, Center for Neurological Diseases, Harvard Medical School, Boston
- 2009, Symposium Speaker, Tri-Society Annual Conference, Lisbon, Portugal
- 2009, Invited Speaker, NIH Director's Seminar Series (2009-2010), NIH, Bethesda
- 2010, Invited Speaker, NIDCR Symposium for Dental Students and Fellows, NIH, Bethesda
- 2010, Invited Speaker, Department of Neurology, Thomas Jefferson University, Philadelphia
- 2010, Invited Speaker, NIH TGF- $\beta$  Superfamily Special Interest Group Symposium, NIH, Bethesda
- 2010, Invited Plenary Speaker, The Second International Conference on Regulatory T cells and Th17 Cells and Clinical Application in Human Diseases, Shanghai, China
- 2010, Invited Speaker, The Institute of Immunology, Shandong University, Jinan, China
- 2010, Invited Speaker, Dept. of Rheumatology, Peking Union Medical College Beijing, China
- 2010, Invited Speaker, School of Oral Histology and Pathology, The 4<sup>th</sup> Military Medical University, Xi'an, China
- 2010, Invited Speaker, Lab Cancer Biology & Genetics, NCI, NIH, Bethesda
- 2010, Invited Speaker, Immunology CTR, NHLBI, NIH, Bethesda
- 2011, Invited Plenary Speaker, Keystone Symposium "TGF- $\beta$  in Immune Responses: From Bench to Bedside", Snowbird, Utah
- 2011, Invited Speaker, MD Anderson Cancer Center, The University of Texas, Houston
- 2011, Invited Keynote Speaker, Annual Meeting of The Texas Chapter of Society of Chinese Bioscientists in America (SCBA), Houston

- 2011, Invited Speaker, Dept. of Microbiology and Immunology and Pathology, The University of Texas Medical Branch, Galveston
- 2011, Invited Speaker, Symposium “ Immunology of Infectious Diseases” 13<sup>th</sup> international symposium of Society of Chinese Bioscientists in America, Guangzhou, China
- 2011, Invited Speaker, Session “ Immunology/Infectious Disease” The 9<sup>th</sup> Biannual Conference of Chinese Biological Investigator Society, Zhang Jia Jie, China
- 2011, Invited Speaker, Special Symposium, “ TGF- $\beta$ - From the Bench to the Clinic”, 9<sup>th</sup> Joint Meeting of ICS-ISICR Cytokines and Interferons, Florence, Italy

**Extramural activities:**

- 2006, Ad hoc Reviewer for Inflammatory Bowel Disease Grant, the Eli and Edythe L. Broad Foundation, CA
- 2006, 2011, Ad hoc Reviewer for immunology grants for the National Science Foundation in China, China
- 2007, Member, Scientific Program Committee, International Conference on Immunology 2007, Shanghai, China
- 2008, Member, Scientific Program Committee, International Conference on Regulatory T cells and Clinical Application in Human Diseases, Beijing, China
- 2008, Co-Chair, Session on Mechanism of Suppression and Molecular Signaling of Tregs, International Conference on Regulatory T cells and Clinical Application in Human Diseases, Beijing, China
- 2008, Co-Chair, Session on Salivary Glands and Saliva, 2008 International Conference on Frontiers and Dental and Craniofacial Research, Beijing, China
- 2010, Member, Conference Program Committee, The Second International Conference on Regulatory T cells and Th17 Cells and Clinical Application in Human Diseases, Shanghai, China
- 2010, Ad hoc Reviewer for French National Institute for Health 2010 Bench-to-the-bedside Program, ISERM, France

- 2011, Co-organizer, Keystone Symposium, TGF- $\beta$  in Immune Responses: From Bench to Bedside, Snowbird, Utah
- 2011, Chair, Session on Keynote Address by [Joan Massagué](#), Keystone Symposium, TGF- $\beta$  in Immune Responses: From Bench to Bedside, Snowbird, Utah
- 2011, Chair, Workshop on TGF- $\beta$  in Autoimmune Diseases, Infection and Cancer, Keystone Symposium, TGF- $\beta$  in Immune Responses: From Bench to Bedside, Snowbird, Utah
- 2011, Member of Supervisory Committee, Hou-pu Liu, Ph.D. candidate, The University of Texas Medical Branch at Galveston
- 2011, Co-Chair, Special Symposium, “ TGF- $\beta$ : From the Bench to the Clinic”, 9<sup>th</sup> Joint Meeting of ICS-ISICR Cytokines and Interferons, Florence, Italy,

**Membership and Activity in Professional Societies:**

American Association of Immunologists  
Society for Mucosal Immunology  
International Society for Interferon and Cytokine Research

**Intramural Activities Outside the NIDCR DIR:**

- 1997-present, Member, NIH Immunology Interest Group
- 1998-present, Member, NIH Cytokine Interest Group
- 2006, Judge for the NIH National Graduate Student Research Festival, NIH
- 2006, Judge for the Fellows Award for Research Excellence (FARE), NIH
- 2008, Judge for the Fellows Award for Research Excellence (FARE), NIH
- 2008-present, Member, NIH Mucosal Immunology Interest Group
- 2008, Organizer and Co-Chair for the plenary session “ Regulatory T cells” at NIH Immunology Interest Group Retreat
- 2008-present, Co-organizer for the monthly scientific discussions among Drs.

Yasmine Belkaid, NIAID, Kristin Tarbell, NIDDK and Wanjun Chen, NIDCR

2009-present, Co-organizer for the *NIH SMILE* seminar series participated by six groups at NIH: Yasmine Belkaid, NIAID; Wanjun Chen, NIDCR; Andy Hurwitz, NCI; Helen Su, NIAID; Kristin Tarbell, NIDDK; Silvia Bolland, NIAID

2008-present, Faculty Member, NIH-Pasture Institute Joint Program

2009, Organizer for Sasha Rudensky's Lecture, NIH Mucosal Immunology Seminar Series

2010, Organizer for Yong-Jun Liu's Lecture, NIH Immunology Interest Group Seminar Series

2010-present, Member, Steering Committee, NIH TGF- $\beta$  Superfamily Special Interest Group

2011. Member, the Mentoring Committee for Li Yang, Ph.D., Tenure-track investigator, NCI, NIH

#### **Activities within the NIDCR DIR**

2004-present, Member, NIDCR Veterinary Research Core Oversight Committee

2004-present, Supervisor for Postdoctoral and Post-Baccalaureate IRTA fellows and Students.

2004-present, Organizer, Mucosal Immunology Unit Seminar Series

2007-present, Member, NIDCR Emergency Coordination Plan

2007-present, Organizer, OIIB monthly Journal Club

2009, Member, The Selection Committee for Assistant Clinical Investigator

2011, Co-Chair, The Organizing Committee for NIDCR P.I. Retreat

#### **List of Current Clinical Protocols: (N/A)**

#### **List of Current Animal Protocols:**

1. **Protocol #:** 08-485  
**Title:** CD4<sup>+</sup>CD25<sup>+</sup> T regulatory cells and TGF- $\beta$ 1 in mouse model of oral cancer  
**PI:** Wanjun Chen  
**Time:** 1/12/2009 – 1/11/2012
  
2. **Protocol #:** 09-505  
**Title:** Apoptotic T cells induce tolerance in prevention and therapy of experimental autoimmune encephalomyelitis and inflammatory bowel disease  
**PI:** Wanjun Chen  
**Time:** 5/21/2009 – 5/21/2012
  
3. **Protocol#:** 09-532  
**Title:** Role of regulatory T cells and TGF- $\beta$  in experimental house dust mite-induced asthma  
**PI:** Wanjun Chen  
**Time:** 12/22/2009 – 12/21/2012

#### **List of Invention Reports and Patents**

1. Chen WJ: **Invention report (EIR#: E-186-2009/0):** Apototic cell-mediated induction of antigen-specific regulatory T cells for the therapy of autoimmune diseases in animals and humans

**MTA(s) Since Previous Review: (N/A)**

**CRADA(s) Since Previous Review: (N/A)**

#### **Bibliography:**

#### **Peer Reviewed Research Articles (English only)**

1. Rosenkranz AR, Schmaldienst S, Stuhlmeier KM, Chen WJ, Knapp W, and Zlabinger GJ. A microplate assay for the detection of oxidative products using 2',7'-dichlorofluorescein-diacetate. **J Immunol Methods.** 1992;156:39-45.
  
2. Gadd SJ, Felzmann T, Majdic O, Petera P, Chen WJ, Smolen J. and Knapp W. Phenotypic analysis of functionally associated molecules on peripheral blood and synovial monocytes from arthritis patients. **Rheumatol Int.** 1992; 12:153-7.
  
3. Chen WJ, Knapp W, Madjic O, Stokinger H. and Zlabinger GJ. Co-ligation of CD31 and FcRII induces cytokine production in human

monocytes. **J Immunol.** 1994; 152:3991-7.

4. Khoury SJ, Gallon L, Chen WJ, Bettres K, Russell ME, Weiner HL, and Sayegh MH. Mechanisms of acquired tolerance to EAE: Thymic dendritic cells induce specific T cell unresponsiveness *in vivo*. **J Exp Med.** 1995; 182:357-66.
5. Chen WJ, Murphy B, Waage AM, Willett TA, Russell ME, Khoury SJ and Sayegh MH. Mechanisms of indirect allorecognition: class II MHC allopeptide-specific T cell clones transfer delayed type hypersensitivity responses *in vivo*. **Transplantation.** 1996; 62:705-10.
6. Waaga AM, Murphy B, Chen WJ, Khoury SJ and Sayegh MH. Class II MHC allopeptide-specific T cell-clones transfer delayed type hypersensitivity response *in vivo*. **Transplant Proc.** 1997; 29:1008-09.
7. Liu L, Rich BE, Inobe J, Chen WJ, and Weiner HL. A potential pathway of Th2 development during primary immune response. IL-10 pretreated dendritic cells can prime naive CD4<sup>+</sup> T cells to secrete IL-4. **Adv Exp Med Biol.** 1997; 417:375-81.
8. Chen WJ, Issazadeh S, Sayegh MH, and Khoury SJ. *In vivo* mechanisms of acquired thymic tolerance. **Cell Immunol.** 1997; 179:165-73.
9. Liu L, Rich BE, Inobe J, Chen WJ, and Weiner HL. Induction of Th2 cell differentiation in the primary immune response: dendritic cells isolated from adherent cell culture treated with IL-10 prime naive CD4<sup>+</sup> T cells to secrete IL-4. **Int Immunol.** 1998; 10:1017-26.
10. Chen WJ, Sayegh MH, and Khoury SJ. Mechanisms of acquired thymic tolerance: intrathymic injection of antigen induces apoptosis of thymocytes and peripheral T cell anergy. **J Immunol.** 1998; 160:1504-08.
11. Chen WJ, Jin WW, Cook M, Weiner HL, and Wahl SM. Oral delivery of group A streptococcal cell walls augments circulating TGF- $\beta$  and suppresses SCW arthritis. **J Immunol.** 1998; 161:6297-304.
12. Chen WJ, Jin WW, and Wahl SM. Engagement of CTLA-4 induces transforming growth factor-beta production by murine CD4<sup>+</sup> T cells. **J Exp Med.** 1998; 188:1849-57.
13. Chen WJ, Jin WW, Tian HS, Frank M, and Wahl SM. Requirement for TGF- $\beta$ 1 in controlling T cell apoptosis. 2001; **J Exp Med.** 194:439-53.

14. Chen WJ, Frank ME, Jin WW, and Wahl SM. Release of TGF- $\beta$  by apoptotic T cells contributes to an immunosuppressive milieu. **Immunity** 2001; 14:715-25.
15. List K, Haudenschild CC, Szabo R, Chen WJ, Wahl SM, Swaim W, Engelholm LH, Behrendt N, and Bugge TH. Matriptase/MT-SP1 is required for postnatal survival, epidermal barrier function, hair follicle development, and thymocyte survival. **Oncogene** 2002; 21:3766-79.
16. Terabe M, Matsu S, Park JM, Mamura M, Noben-Trauth N, Donaldson DD, Chen WJ, Wahl SM, Ledbetter S, Pratt B, Letterio JJ, Paul WE, and Berzofsky JA. NKT/IL-13 down-regulation of CTL tumor immunosurveillance mediated by myeloid cell TGF- $\beta$  production. **J Exp Med.** 2003; 198:1741-52.
17. Chen WJ, Jin WJ, Lei K-j, Hardegen N, Li L, Marinos N, and Wahl SM. Conversion of peripheral CD4<sup>+</sup>CD25<sup>-</sup> regulatory T cells by TGF- $\beta$  induction of transcription factor Foxp3. **J Exp Med.** 2003; 198: 1875-86.
18. Miura M, Miura Y, Padilla-Nash HM, Molinolo AA, Fu B, Patel V, Seo BM, Sonoyama W, Zheng JJ, Baker CC, Chen WJ, Ried T, Shi S. Accumulated chromosomal instability in murine bone marrow mesenchymal stem cells leads to malignant transformation. **Stem Cells.** 2006; 24:1095-103.
19. Miura Y, Gao Z, Miura M, Seo B-M, Sonoyama M, Chen WJ, Gronthos S, Zhang L, and Shi S. Mesenchymal stem cell-organized bone marrow elements: an alternative hematopoietic progenitor resource. **Stem Cells.** 2006; 24:2428-36.
20. Liu Y, Amarnath S, and Chen WJ. Requirement of CD28 signaling in homeostasis/survival of TGF- $\beta$  converted CD4<sup>+</sup>CD25<sup>+</sup> Tregs from thymic CD4<sup>+</sup>CD25<sup>-</sup> single positive T cells. **Transplantation.** 2006; 82:953-64.
21. Nandula S, Amarnath S, Molinolo A, Hall B, Goldsmith CM, Zheng C, Larsson, Sreenath T, Chen WJ, Karlsson S, Baum BJ, Kulkarni AB. Female mice are more susceptible to developing inflammatory disorders due to impaired TGF- $\beta$  signaling in salivary glands. **Arthritis Rheum.** 2007; 56:1798-805.
22. Ehrchiou D, Xiong Y, Xu G, Chen WJ, Shi Y, and Zhang L. CD11b facilitates the development of peripheral tolerance by suppressing Th17 differentiation, **J Exp Med.** 2007; 204:1519-24.
23. Amarnath S, Dong L, Li J, Wu, Y, and Chen WJ. Endogenous TGF- $\beta$

activation by reactive oxygen species is key to Foxp3 induction in TCR-stimulated and HIV-1-infected human CD4<sup>+</sup>CD25<sup>-</sup> T cell. **Retrovirology**. 2007; 4:57.

24. Perruche S, Zhang P, Liu Y, Saas P, Bluestone JA, and Chen WJ. CD3-specific antibody-induced immune tolerance involves TGF-beta from phagocytes digesting apoptotic T cells. **Nat Med**. 2008; 14:528-35.
25. Liu Y, Zhang P, Perruche S, Li J, Kurlkani A, and Chen WJ. A critical function for TGF-b signaling in the development of natural CD4<sup>+</sup>CD25<sup>+</sup>Foxp3<sup>+</sup> regulatory T cells. **Nat Immunol**. 2008; 9:632-40
26. Yamaza T, Miura Y, Bi Y, Liu Y, Akiyama K, Sonoyama W, Patel V, Gutkind S, Young M, Gronthos S, Le A, Wang C-Y, Chen WJ\*, and Shi S\* Pharmacologic stem cell based intervention as a new approach to osteoporosis treatment in rodents. **PLoS ONE**. 2008 3(7):e2615 (\*Co-corresponding authors)
27. Yamaza T, Miura Y, Akiyama K, Bi Y, Sonoyama W, Gronthos S, Chen WJ, Le A, and Shi S. Mesenchymal stem cell-mediated ectopic hematopoiesis alleviates aging-related phenotype in immunocompromised mice. **Blood**. 2009; 113:2595-604.
28. Bian Y, Terse A, Du J, Hall B, Molinolo A, Zhang P, Chen WJ, Flanders KC, Gutkind JS, Wakefield L, and Kulkarni AB. Progressive Tumor Formation in Mice with Conditional Deletion of TGF-β Signaling in Head and Neck Epithelia Is Associated with Activation of the PI3k/Akt Pathway. **Cancer Research**. 2009; 69:5918-26.
29. Perruche S, Zhang P, Maruyama T, Bluestone JA, Saas P, and Chen WJ. Lethal effect of CD3-specific antibody in mice deficient in TGF-beta1 by uncontrolled "flu-like" syndrome. **J. Immunol**. 2009; 183:953-61.
30. Perruche S, Saas P, Chen WJ. Apoptotic cell-mediated suppression of Streptococcal Cell Wall-induced arthritis is associated with alteration of macrophage function and local regulatory T cell increase: a potential cell-based therapy? **Arthritis Res Ther**, 2009;11(4):R104. Epub 2009; Jul 2
31. Wang Q, Liu C, Zhu F, Liu F, Zhang P, Guo C, Wang X, Li H, Ma C, Sun W, Zhang Y, Chen WJ\* and Zhang L.\* Reoxygenation of hypoxia differentiated dendritic cells induces Th1 and Th17 cell differentiation. **Mol Immunol**. 2009; 47:922-31. (\* Co-corresponding authors)
32. Kikuri T, Kim I, Yamaza T, Akiyama K, Zhang Q, Li Y, Chen WJ, Wang S, Le AD, and Shi S. Cell-based immunotherapy with mesenchymal stem cells cures bisphosphonate-related osteonecrosis of the Jaw-like disease

in mice. **JBMR**, 2010; 25:1668-79.

33. Li J, Maruyama T, Zhang P, Konkel J, Hoffman V, Zamarron B, and Chen WJ\*. Mutation of inhibitory helix-loop-helix protein Id3 causes  $\gamma\delta$ T cell lymphoma in mice. **Blood**. 2010, 116:5615-21.
34. Gao Q, Jiang Y, Ma T, Zhu F, Gao F, Zhang P, Guo C, Wang Q, Wang X, Ma C, Zhang Y, Chen WJ\*, and Zhang L\*. A critical function of Th17 inflammatory cells in the development of atherosclerotic plaque in mice. **J. Immunol**. 2010; 185:5820-7. (\*Co-corresponding authors)
35. Ghoreschi K, Laurence A, Yang XP, Tato CM, McGeachy MJ, Konkel JE, Ramos HL, Wei L, Davidson TS, Bouladoux N, Grainger JR, Chen Q, Kanno Y, Watford WT, Sun HW, Eberl G, Shevach EM, Belkaid Y, Cua DJ, Chen WJ, O'Shea JJ. Generation of pathogenic T(H)17 cells in the absence of TGF- $\beta$  signalling. **Nature**. 2010; 467:967-71.
36. Maruyama T, Li J, Vague JP, Konkel JE, Wang W, Zhang B, Zhang P, Zamarron BF, Yu D, Wu Y, Zhuang Y, Gutkind JS, and Chen WJ. Control of regulatory T cell and Th17 cell differentiation by inhibitor of DNA binding 3. **Nat Immunol**. 2011; 12:86-95
37. Konkel J, Maruyama T, Carpenter AC, Xiong Y, Zamarron B, Hall BE, Kulkarni A, Zhang P, Bosselut R and Chen WJ. Control of CD8 $\alpha\alpha$  intestinal intraepithelial lymphocyte development by TGF- $\beta$ . **Nat Immunol**. 2011; 12:312-9
38. Bonnefoy F, Couturier M, Clauzon A, Remy-Martin J-P, Gaugler B, Tiberghien P, Chen W, Saas P and Perruche S. TGF- $\beta$ -exposed plasmacytoid dendritic cells participate to Th17 commitment. **J Immunol**. 2011, 186:6157-64
39. Liu Y, Wang L, Kikuri T, Akiyama K, Chen C, Chen WJ, Wang S, Shi S. Bone marrow mesenchymal stem cell-based tissue regeneration is governed by recipient T lymphocyte response. **Nat Med**. 2011, In press

#### **Invited commentary:**

1. Belkaid Y and Chen WJ. Regulatory ripples (*News and views*), **Nat Immunol**. 2010; 11:1077-8
2. Chen WJ. Tregs in immunotherapy: opportunities and challenges (*Editorial*), **Immunotherapy**, 2011 3:911-4
3. Chen WJ. IDO: more than an enzyme. (*News and views*), **Nat Immunol**. 2011; 12:809-11

### Invited and Peer Reviewed Review Articles:

1. Wahl SM, Orenstein JM, and Chen WJ. TGF- $\beta$  influences the life and death decisions of T lymphocytes. **Cytokine Growth Factor Rev.** 2000;11:71-9.
2. Chen WJ, and Wahl SM. TGF- $\beta$ : the missing link in CD4<sup>+</sup> CD25<sup>+</sup> regulatory T cell-mediated immunosuppression. **Cytokine Growth Factor Rev.** 2003; 14:85-9.
3. Wahl SM, Swisher J, McCartney-Francis N, and Chen WJ. Resolution of inflammation: an expanding role for TGF- $\beta$ . **J Leuk Biol.** 2004; 76:15-24.
4. Wahl SM, Vazquez N, and Chen WJ. Regulatory T cells and transcription factors: gatekeepers in allergic inflammation. **Curr Opin Immunol.** 2004; 16: 768-74.
5. Wahl SM, and Chen WJ. TGF- $\beta$ -induced T regulatory cells referee inflammatory and autoimmune diseases. **Arthritis Res Ther.** 2005; 7:62-8.
6. Chen WJ. Dendritic cells and CD4<sup>+</sup>CD25<sup>+</sup> T regulatory cells: crosstalk between two professionals. **Frontiers in Bioscience.** 2006; 11:1160-70.
7. Chen WJ, Perruche S, and Li J. TGF- $\beta$  and CD4<sup>+</sup>CD25<sup>+</sup> T regulatory cells in mucosal immune system: the good and the bad. **Curr Med Chem.** 2007; 14:2245-9.
8. Chen WJ and Konkel JE. TGF- $\beta$  and adaptive regulatory T cells, **J Mol Cell Biol.** 2010; 2:30-6.
9. Maruyama T, Konkel JE, Zamarron BF and Chen WJ. The molecular mechanisms of Foxp3 gene regulation. **Semin Immunol.** 2011, Jul 11 (Epub ahead of print)
10. Zamarrow BF and Chen WJ. Dual Roles of Immune Cells and Their Factors in Cancer Development and Progression. **Int J Biol Sci.** 2011; 7:651-8
11. Balancing acts: the role of TGF- $\beta$  in the mucosal immune system. **Trends Mol Med.** 2011, 17:668-76

### Invited Review Articles and Book Chapters:

1. Chen WJ, and Wahl SM. Manipulating TGF- $\beta$  in the treatment of autoimmune and chronic inflammatory diseases. **Microbes and Infection** 1999; 1:1367-80.
2. Chen WJ, and Wahl SM. What is the basic mechanism by which TGF- $\beta$  works to control arthritis and inflammation? Which patients are the best candidates for this treatment? **J Musculoskel Med.** 1999
3. Chen WJ, and Wahl SM. TGF- $\beta$  receptors, signaling pathways and autoimmunity. **Curr Dir Autoimmunol.** 2002; 5:62-91.
4. Chen WJ, and Wahl SM. TGF- $\beta$  and apoptosis. **Mod Asp Immunobiol.** 2002; 2:246.
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