

# CURRICULUM VITAE

Hua Huang M.D., Ph.D.

Present Position Rank: Associate Professor

Present Address:

Division of Allergy and Immunology,  
Department of Medicine and Integrated Department of Immunology,  
National Jewish Health,  
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## II. Educational History

### Degrees

- 1979-1984 Sun Yat-Sen University School of Medicine, Guangzhou, P. R. China;  
MD  
1989-1991 University of Wisconsin-Madison, MS in Immunology.  
1991-1993 University of Wisconsin-Madison, PhD in Developmental Biology.

### Postdoctoral training

- 1993-1995 Leukemia Society Fellow, The Department of Molecular Biology,  
Princeton University.  
1995-1999 Leukemia Society Fellow and postdoctoral fellow, The Laboratory of  
Immunology, NIAID, NIH.

## III. Professional Position

- 1983-1984 Internship, The Second Affiliated Hospital of Sun Yat-Sen Medical  
School, Guangzhou, China.  
1984-1988 Research Associate, Laboratory of Industrial Hygiene, Ministry of Public  
Health, Beijing, People's Republic of China.  
1988-1989 Visiting Scholar, Immunology, Radiation Effects Research Foundation,  
Hiroshima, Japan.  
1989-1993 Graduate Research Assistant, Department of Zoology, University of  
Wisconsin.  
1993-1995 Leukemia Society Fellow, Department of Molecular Biology, Princeton  
University.  
1995-1999 Intramural Research Fellow, Laboratory of Immunology, NIH.  
1999-2005 Assistant Professor (promoted to Associate Professor with tenure),  
Department of Cell Biology, Loyola University Chicago, Stritch School of  
Medicine. Faculty member of the Molecular Biology Graduate Program.  
2005- Visiting Professor, Sichuan University School of Medicine.

2005- Associate Professor, Division of Allergy and Immunology, Departments of Medicine and Integrated Immunology, National Jewish Health, University of Colorado Denver School of Medicine

#### **IV. Honors and Awards**

1988, 1989 Visiting Scholarship awarded by the Radiation Effects Research Foundation, Japan  
1989 Certification of Appreciation from the Radiation Effects Research Foundation, Japan  
1994 Leukemia Society of America Fellowship.  
2000 NIH K22 Research Career Award  
2002 The Lydia Schweppe Immunology Career Development Award.  
2004 Travel Award by the Federation of Clinical Immunology Societies (FOCIS).

#### **V. Professional Affiliations**

1999-2005 Chicago Association of Immunologists  
1999-Present American Association for the Advancement of Science  
2000-Present American Association of Immunologists

#### **VI. Professional Service and Committees**

##### **A. Institutional and Departmental Committees**

1999-2005 Service to Loyola University:

Starting in 1999, I participated in teaching graduate courses organized by the Department of Microbiology and Immunology and also actively participated in teaching and training in the Molecular Biology Graduate Program. Starting in 2003 I co-directed the Cell Biology Departmental Seminar. In addition to hosting guest speakers, I regularly discussed strengths and weaknesses with student seminar presenters. Committee services included; comprehensive exam committee, Ph.D. dissertation committee, and search committee.

2005-date Service to National Jewish Health:

I have been serving on the graduate students' thesis committee and have been giving lectures to the Graduate students and Allergy and Immunology fellows.

I developed a workshop to teach faculty and trainees in the Department of Medicine to learn hands on knowledge about using flow cytometry.

##### **B. National Service**

2001 Chair of the "Cytokines and Chemokine's" workshop at the Autumn Immunology Conference, Chicago, Illinois.

2004 Chair of the "T Cell Development" workshop at the Autumn Immunology Conference, Chicago, Illinois.

2008- Evaluation of tenure promotion for University of Pittsburg, Baylor University,

Indiana University, Fudan University, and Hua Zhong Science and Technology University, China.

2011 Chaired a workshop “Cellular and Molecular Biology” at the 16th Congress of the Asian Pacific Society of Respiratory Diseases, Shanghai, China.

## **VII. Patents**

N/A

## **VIII. Review and Referee Activities**

Editorial Board:

2006-Present: Managing editor, Frontiers in Bioscience

2011-Present: Editorial Board of the International Journal of Biochemistry and Molecular Biology

Journal Review:

Reviewer: The Journal of Immunology

Reviewer: Blood

Reviewer: Cellular Immunology and Molecular Immunology

Reviewer: Cancer Research

Study Section:

2005- Ad hoc reviewer for Immunity and Host Defense Study Section, NIH.

2006- Reviewer for Specialized, Clinically-Oriented Ventures in Environmental Research (DISCOVER) Center, NIEHS, NIH.

2008- Ad hoc reviewer, U.S.-Israel Bi-National Science Foundation.

2008- Ad hoc reviewer for Hypersensitivity, Autoimmunity & Immune-mediated Diseases Study Section, NIH.

2009- Reviewer, ZAI1 PTM-I (M1) 1, special emphasis panel, Immune Defense at the Mucosa, NIAID, NIH.

2008- Ad hoc reviewer for Hypersensitivity, Autoimmunity & Immune-mediated Diseases Study Section, NIH.

## **IX. Teaching Activities**

A. Course Director

2001 Special Topic: Signal Transduction, Course Director.

2001 Molecular Biology Journal Club, Co-director, two semesters.

2003-2005 Departmental Seminar, Co-Director.

B. Graduate and Medical School Lectures

2002 Lectured on “B Cell Receptor Signaling” in Molecular Genetics of B Lymphocytes.

- 2003           Lectured on “Helper T Cell Lineage Commitment and Functions” in Cellular Immunology.
- 2004           Lectured on “B Cell Receptor Signaling” in Molecular Genetic of B Lymphocytes.
- 2005-Present   Lecture entitled “CD4<sup>+</sup> T Cell Subsets: Development and Immune Functions” in Denver Allergy Round.
- 2006-Present   Participating in Clinic Fellow’s Journal Club study.
- 2007-Present   Lecture entitled “Cytokine Receptor Signaling” in IMMU 7604 Special Topics in Signal Transduction in the Immune system.
- 2008-Present   Lecture entitled “CD4 subsets: development and Function” in Immunology 7662.
- 2011           I have developed a hands-on workshop to teach flow cytometry.

C.           Medical Student Preceptor

Faculty member of Medical Scientist Training Program, University of Colorado Denver School of Medicine

Faculty member of Allergy and Clinic Immunology training program, National Jewish Health and University of Colorado Denver School of Medicine

Trainees:

Nkiruka Erekosima, MD 2007-2009

Shanze Wang MD, PhD 2009-2011

D.           Graduate Student Thesis Advisor

Faculty member of Immunology, graduate school of CU Denver

Faculty member of Regenerative Medicine and Stem Cell Biology Program, CU Denver School of Medicine

Faculty member of Sichuan University School of Medicine

Faculty member Loyola University Chicago School of Medicine

Graduated:

2005-2009      Yonghua Zhuang

2002-2006      Zan Huang, Ph.D. (Assistant Professor, School of life sciences, Wu Han University)

2000-2003      Kristy Grabowski Ph.D.

Ph.D. Dissertation Committees:

2011-           Nathan Pennock

2011-           Christine Delgado

2008-           Allison Bamberg Ph.D. candidate, Department of Immunology

2007-2010      Kavita Tundwal Ph.D. candidate, Department of Immunology

2005-2007      Jeanette Brown M.D. Ph.D. Department of Immunology

2002-2004      Ki Jong Rhee Microbiology/Immunology, Loyola Medical School Joseph

2002-2004      R. Podojil, Cell Biology, Loyola Medical School

2003-2005      Cynthia DeBoy, Cell Biology, Loyola Medical School

Comprehensive Examine Committees:

2008 Rick Sullivan, Immunology, University of Colorado Denver  
2002-2004 Joseph R. Podojil, Cell Biology, Loyola Medical School  
2003-2005 Cynthia DeBoy, Cell Biology, Loyola Medical School  
2003 Jiao de Gong, Cell Biology, Loyola Medical School

Undergraduate students:

2009-2011 Hannah Goettle (CU-Denver)  
2008-2011 J.D. Williams (Denver University)  
2005-2009 Leah Cho (Denver University)  
2002 Bernadine Espiritu (Northwestern)  
2002 Rashid Rashid (Loyola Medical School)  
1998-1999 Charles Lo (Cornell University)

E. Postdoctoral Fellows

Current:

2010- Present Xiaopeng Qi  
2010- Present Jessie Hong

Past:

2010- 2011 Zhihong Chen  
2009-2011 Lee Chevas  
2005-2009 Jun Nishida Ph.D.  
2006-2007 Keitaro Ohmari DVM. Ph.D.  
2003-2005 Yuechun Zhu M. D.  
2002-2004 Luqui Chen M. D., Ph. D.  
2000-2001 Yongkang Zhang M.D., Ph.D.

Visiting Professor

2005-2010 Visiting Professor, Sichuan University School of Medicine.  
2009-date Visiting Professor, Sun Yet-Sen University School of Medicine.

**X. Research Grants, Contracts, and Special Grants**

A. Current Research Grant Support

*Extramural Funding*

NIH 1R01AI083986-01 : Gene Regulations in Basophil-Mediated Allergic Responses; Direct Cost \$250,000/year. 07/01/2010 – 06/30/2015. Principal Investigator

ARRA administrative supplement NIH/NIAID  
Direct Cost \$111,281/year. 1R01AI068083-01 7/1/2010-3/31/2012  
Coordinating Adaptive and Innate Immunity. Principal Investigator

NIH/NIAID 1R01 AI070175-01 : Effects of Allergic Inflammation on TLR2 Signaling and Mycoplasma; \$250,000/Year. 9/01/08 – 8/31/12

NIH/NIAID T32 Training grant awarded to the University of Colorado Denver School of Medicine. \*\* We should really get the proper information for this grant \*\*

*Intramural Funding*

Department of Medicine Grant : Epigenetic modifications of Th2 cells derived from older asthmatic patients; \$10,000 07/01/2011-12/31/2011.

B. Previous Grant Support

*Extramural Funding*

NIH/NIAID 1R01AI068083-01: Coordinating Adaptive and Innate Immunity; \$111,281/year. 07/101/2010-03/31/2011. Principal Investigator

NIH/NIAID 1 RO1 AI059170—01 : Differentiation of Th2 cytokine-producing innate cells; \$225,000/year. 6/1/2005-5/31/2010

NIH/NIAID 1R01AI068083-01 : Coordinating Adaptive and Innate Immunity; \$225,000/year. 4/1/2005-3/31/2009

PP1357 : Identification of Regulatory Regions of the *Il17* Gene; \$40,000. 3/1/2007-2/28/2009. Principal Investigator

NIH/NIAID RO1 AI48568-01 : Role of IFN- $\gamma$  in Th1 Cell Development; \$150,00/year. 2/1/2002-1/31/2005

K22 AI01663 Career Development Award : The Role of Phosphatases in Regulating Basal and Induced IL-4 Receptor Expression In Lymphocytes 2/1/2000-2/28/2002. Principal Investigator.

Career Development Award : Mechanism(s) by which T Cell Receptor Signals Down-regulate IL-4-induced STAT6 phosphorylation. \$150,000/year. 04/01/2000-03/31/2003. Principal Investigator. Funding Agency: The Schweppe Foundation

*Intramural Funding*

Banes trust Fund of Loyola University Chicago, Stritch School of Medicine : Molecular Basis of Stable Th1 phenotype. \$40,000, 3/1/2000-2/28/2001. Principal Investigator.

## **XI. Bibliography**

### **A. Papers published in refereed journals**

1. Gao FM, Li XL, Huang H, Wang WH. [In vitro studies of the cell cycle of mouse myelomonocytic leukemia using a fluorescence activated cell sorter and autoradiography]. *Zhonghua Zhong Liu Za Zhi*. 1987 Jan;9(1):10-3. Chinese.(1)
2. Huang H, Meyer KC, Kubai L, Auerbach R. An immune model of beryllium-induced pulmonary granulomata in mice. Histopathology, immune reactivity, and flow-cytometric analysis of bronchoalveolar lavage-derived cells. *Lab Invest*. 1992 Jul;67(1):138-46.
3. Kusunoki Y, Huang H, Fukuda Y, Ozaki K, Saito M, Hirai Y, Akiyama M. A positive correlation between the precursor frequency of cytotoxic lymphocytes to autologous Epstein-Barr virus-transformed B cells and antibody titer level against Epstein-Barr virus-associated nuclear antigen in healthy seropositive individuals. *Microbiol Immunol*. 1993;37(6):461-9.
4. Kusunoki Y, Kyoizumi S, Fukuda Y, Huang H, Saito M, Ozaki K, Hirai Y, Akiyama M. Immune responses to Epstein-Barr virus in atomic bomb survivors: study of precursor frequency of cytotoxic lymphocytes and titer levels of anti-Epstein-Barr virus-related antibodies. *Radiat Res*. 1994 Apr;138(1):127-32.
5. Huang H, Auerbach R. Identification and characterization of hematopoietic stem cells from the yolk sac of the early mouse embryo. *Proc Natl Acad Sci U S A*. 1993 Nov 1;90(21):10110-4.
6. Huang H, Zettergren LD, Auerbach R. In vitro differentiation of B cells and myeloid cells from the early mouse embryo and its extra embryonic yolk sac. *Exp Hematol*. 1994 Jan;22(1):19-25.
7. Huang H, Hu-Li J, Chen H, Ben-Sasson SZ, Paul WE. IL-4 and IL-13 production in differentiated T helper type 2 cells is not IL-4 dependent. *J Immunol*. 1997 Oct 15;159(8):3731-8.
8. Ryan JJ, Huang H, McReynolds LJ, Shelburne C, Hu-Li J, Huff TF, Paul WE. Stem cell factor activates STAT-5 DNA binding in IL-3-derived bone marrow mast cells. *Exp Hematol*. 1997 Apr;25(4):357-62.
9. Chen H, Huang H, Paul WE. NK1.1+ CD4+ T cells lose NK1.1 expression upon invitro activation. *J Immunol*. 1997 Jun 1;158(11):5112-9.
10. Hu-Li J, Huang H, Ryan J, Paul WE. In differentiated CD4+ T cells, interleukin 4 production is cytokine-autonomous, whereas interferon gamma production is cytokine-dependent. *Proc Natl Acad Sci USA*. 1997 Apr 1;94(7):3189-94.

11. Huang H, Paul WE. Impaired interleukin 4 signaling in T helper type 1 cells. *J Exp Med.* 1998 Apr 20;187(8):1305-13.
12. Ryan JJ, McReynolds LJ, Huang H, Nelms K, Paul WE. Characterization of a mobile Stat6 activation motif in the human IL-4 receptor. *J Immunol.* 1998 Aug 15;161(4):1811-21.
13. Huang H, Pannetier C, Hu-Li J, Paul WE. Transient transfection of primary T helper cells by particle-mediated gene transfer. *J Immunol Methods.* 1998 Jun 1;215(1-2):173-7.
14. Huang H, Paul WE. Protein tyrosine phosphatase activity is required for IL-4 induction of IL-4 receptor alpha-chain. *J Immunol.* 2000 Feb 1;164(3):1211-5.
15. Zhu J, Huang H, Guo L, Stonehouse T, Watson CJ, Hu-Li J, Paul WE. Transient inhibition of interleukin 4 signaling by T cell receptor ligation. *J Exp Med.* 2000 Oct 16;192(8):1125-34. (co-first author).
16. Zhang Y, Apilado R, Coleman J, Ben-Sasson S, Tsang S, Hu-Li J, Paul WE, Huang H. Interferon gamma stabilizes the T helper cell type 1 phenotype. *J Exp Med.* 2001 Jul 16;194(2):165-72.
17. Chen L, Grabowski KA, Xin JP, Coleman J, Huang Z, Espiritu B, Alkan S, Xie HB, Zhu Y, White FA, Clancy J Jr, Huang H. IL-4 induces differentiation and expansion of Th2 cytokine-producing eosinophil's. *J Immunol.* 2004 Feb 15;172(4):2059-66.
18. Zhu Y, Chen L, Huang Z, Alkan S, Bunting KD, Wen R, Wang D, Huang H. Cutting edge: IL-5 primes Th2 cytokine-producing capacity in eosinophil's through a STAT5-dependent mechanism. *J Immunol.* 2004 Sep 1;173(5):2918-22.
19. Huang Z, Coleman JM, Su Y, Mann M, Ryan J, Shultz LD, Huang H. SHP-1 regulates STAT6 phosphorylation and IL-4-mediated function in a cell type-specific manner. *Cytokine.* 2005 Feb 7;29(3):118-24.
20. Huang Z, Xin J, Coleman J, Huang H. IFN-gamma suppresses STAT6 phosphorylation by inhibiting its recruitment to the IL-4 receptor. *J Immunol.* 2005 Feb 1;174 (3):1332-7.
21. Wu, C. Y., Yang B. Y., Zhu, Z. L., and Huang, H. Analysis of linkage of antigen-specific Th1/Th2 cytokines at a single cell level. *Chinese Journal of Immunology.* 2: 9-12 (2005). (This is a collaborative work as result of being a visiting professor in Sun Yat-sen University Medical School, which is my alma mater).
22. Xin J, Ohmori K, Nishida J, Zhu Y, Huang H. The initial response of CD4+ IL-4-producing cells. *Int Immunol.* 2007 Mar;19(3):305-10. Epub 2007 Jan 30.

23. Ohmori K, Luo Y, Jia Y, Nishida J, Wang Z, Bunting KD, Wang D, Huang H. IL-3 induces basophil expansion in vivo by directing granulocyte-monocyte progenitors to differentiate into basophil lineage-restricted progenitors in the bone marrow and by increasing the number of basophil/mast cell progenitors in the spleen. *J Immunol*. 2009 Mar 1;182(5):2835-41.
24. Zhuang Y, Huang Z, Nishida J, Brown M, Zhang L, Huang H. A continuous T-bet expression is required to silence the interleukin-4-producing potential in T helper type 1 cells. *Immunology*. 2009 Sep;128(1):34-42.
25. Zhuang Y, Huang Z, Nishida J, Zhang L, Huang H. Signaling pathways that lead to the silencing of the interleukin-4-producing potential in Th1 cells. *J Interferon Cytokine Res*. 2009 Jul;29(7):399-406.
26. Huang Y, Jin N, Roark CL, Aydintug MK, Wands JM, Huang H, O'Brien RL, Born WK. The influence of IgE-enhancing and IgE-suppressive gamma delta T cells changes with exposure to inhaled ovalbumin. *J Immunol*. 2009 Jul 15;183(2):849-55. Epub 2009 Jun 19.
27. Bai X, Kim SH, Azam T, McGibney MT, Huang H, Dinarello CA, Chan ED. IL-32 is a host protective cytokine against *Mycobacterium tuberculosis* in differentiated THP-1 human macrophages. *J Immunol*. 2010 Apr 1;184(7):3830-40. Epub 2010 Feb 26.
28. Qi X, Nishida J, Chaves L, Ohmori K, Huang H. CCAAT/enhancer-binding protein alpha (C/EBPalpha) is critical for interleukin-4 expression in response to FcepsilonRI receptor cross-linking. *J Biol Chem*. 2011 May 6;286(18):16063-73. Epub 2011 Mar 21.
29. Roza I. Nurieva, Andrew Podd, Yuhong Chen, Andrei M. Alekseev, Mei Yu, Xiaopeng Qi, Hua Huang, Renren Wen, Junmei Wang, Haiyan S. Li, Stephanie S. Watowich, Chen Dong, Demin Wang.. STAT5 Negatively Regulates Follicular Helper T cell Generation and Function, 2011, JBC, accepted.
30. Nicholas Goplen, Md. Zunayet Karim, Lei Guo, Yonghua Zhuang, Hua Huang, Magdalena M. Gorska, Erwin Gelfand, Gilles Pagés, Jacques Pouyssegur, and Rafeul Alam. ERK1 is Important for Th2 Differentiation and Development of Experimental Asthma, FASEB J, 2011, accepted.

**Manuscript available for evaluation**

Zhihong Chen, Shanze Wang, Nkiruka Erekosima, Yonghua Zhuang, Xiaopeng Qi, Rohit Katial, Rafeul Alam, Chunxue Bai, and Hua Huang. Repeated or high dose of IL-4 stimulation, but not IL-2 stimulation, induces Th2 cells to resist the IL-27-mediated inhibition through the SOCS3-STAT1 axis. Submitted to JI, 2011.

## B. Book and Review

1. Auerbach R, Huang H, Lu L. Hematopoietic stem cells in the mouse embryonic yolk sac. *Stem Cells*. 1996 May;14(3):269-80. Review
2. Nelms K, Huang H, Ryan J, Keegan A, Paul WE. Interleukin-4 receptor signaling mechanisms and their biological significance. *Adv Exp Med Biol*. 1998;452:37-43. Review
3. Born WK, Huang Y, Jin N, Huang H, O'Brien RL. Balanced approach of gamma delta T cells to type 2 immunity. *Immunol Cell Biol*. 2010 Mar-Apr;88(3):269-74. Epub 2010 Jan 26. Review
4. Huang H. Suppressing allergic immune responses. *Front Biosci (Elite Ed)*. 2011 Jun 1;3:864-70

## Invited Presentations

- 1999 Department of Biology, Virginia Commonwealth University, Richmond, VA.
- 2001 Rush University.
- 2004 Department of Immunology, Shanghai Institute of Cell Biology and Biochemistry, Chinese Academic of Science.
- 2004 The Blood Research Institute, Medical College of Wisconsin.
- 2004 12<sup>th</sup> International Congress of Immunology, Montréal, Canada.
- 2005 Department of Immunology, Su Zhou University of Medical School.
- 2005 Department of Immunology, Sichuan University School of Medicine.
- 2006 Department of Biotherapy, Sun Yet-set University Cancer Center.
- 2007 Department of Immunology, Sun Yet-set University, 2007.
- 2007 13<sup>th</sup> International Congress of Immunology, Rio de Janeiro, Brazil.
- 2008 Department of Pediatric, Indiana University School of Medicine.
- 2010 Department of Medicine, Fudan University School of Medicine, Shanghai, China.
- 2011 16th Congress of the Asian Pacific Society of Respiratory Diseases, Shanghai, China.
- 2011 24<sup>th</sup> Annual Meeting of the Association of Medical Laboratory Immunologists, San Diego, USA.

## D. Abstracts and papers presented at meetings

Abstracts and papers presented at meetings (Since 1999)

1. 1999 Hua Huang, Jingfan Zhu, Jane Hu-Li and William E. Paul. TCR-mediated downregulation of STAT6 Phosphorylation in differentiated T helper cells. 28th Autumn Immunology Conference, Chicago. Oral presentation.
2. 2000 Jingfan Zhu, Timothy Stonehouse, Jane Hu-Li, Hua Huang and William E. Paul. Transient inhibition of STAT6 Phosphorylation by TCR ligation. AAI, Seattle, Washington.
3. 2000 John M. Coleman, Eric Misfeldt, William E. Paul, and Leonard D. Schultz and Hua Huang. Lack of IL-4 receptor alpha chain expression and IL-4-mediated functions in spleen cells from SHP-1deficient mice. 29th Autumn Immunology Conference, Chicago, IL. Oral presentation.
4. 2001 Hua Huang, Ron Apilado, John Coleman, S.Z. Ben-Sasson, Jane Hu-Li, William E. Paul and Yongkang Zhang. IFN- $\gamma$  Stabilizes the Th1 Cell Phenotype. 11th International Congress of Immunology, Stockholm, Sweden. Oral presentation.
5. 2002 Kristy Grabowski, John Coleman, Baltazar Espiritu, William E. Paul, William, Xia, John Clancy, Jr. and Hua Huang. Accumulation of Robust IL-4 Producers in the Lung and Airway in a Murine Model of Asthma is IL-4 Dependent. America Association of Immunology Annual Meeting, New Orleans.
6. 2002 Junping Xin, Yongkang Zhang, and Hua Huang. IFN- $\gamma$  inhibits STAT6 phosphorylation in differentiated Th1 Cells. America Association of Immunology Annual Meeting, New Orleans.
7. 2002 Luqiu Chen, Kristy Grabowski, Junping Xin, John Coleman, Baltazar Espiritu, William E. Paul, Serhan Alkan, William, Xia, John Clancy, Jr., and Hua Huang. IL-4 directs hematopoietic progenitor cells to become non-CD4 IL-4 producers in murine model of asthma. 31th Autumn Immunology Conference, Chicago, IL. Oral presentation.
8. 2002 Zan Huang and Hua Huang. Cell type specific regulation of IL-4 receptor expression. 31th Autumn Immunology Conference, Chicago, IL. Oral presentation.
9. 2002 Junping Xin\*, Yan Su\*, Yongkang Zhang and Hua Huang. IFN- $\gamma$  mediates Th1 cell commitment: role of diminished STAT6 Phosphorylation. 31th Autumn Immunology Conference, Chicago, IL. Oral presentation.
10. 2003 Hua Huang, Luqiu Chen, Kristy Grabowski, John Coleman and Jun-ping Xin. Initiation and expansion of Th2 response in allergic airway inflammation, Keystone Symposium.
11. 2003 Luqiu Chen, Kristy A. Grabowski, Jun-ping Xin, John Coleman, Zan Huang, Baltazar Espiritu, H. Bill Xie, Serhan Alkan, John Clancy, Jr., and Hua Huang. Eosinophil's function as IL-4-controlled cellular amplifiers for Th2 Cytokine production in the late-phase response of allergic airway inflammation. America Association of Immunology Annual Meeting, Denver, Colorado.
12. 2003 Junping Xin, Luqiu Chen, and Hua Huang. IL-4 is not required to generate antigen-specific Th2 response but is critical to expand Th2 Response in

- murine model of allergic airway inflammation. America Association of Immunology Annual Meeting, Denver, Colorado.
13. 2003 Zan Huang, Junping Xin, and Hua Huang. IFN- $\gamma$  suppresses STAT6 phosphorylation in Th1 Cells by inhibiting STAT6 binding to phosphorylated IL-4 receptor. 32th Autumn Immunology Conference, Chicago, IL. Oral presentation.
  14. 2003 Junping Xin, Yuechun Zhu, Luqiu Chen, and Hua Huang. Identification and characterization of initial IL-4-producing CD4<sup>+</sup> T Cells directly ex vivo. 32th Autumn Immunology Conference, Chicago, IL. Oral presentation.
  15. 2004 Hua Huang, Zan Huang, Junping Xin, and John Coleman. Interferon- $\gamma$  suppresses STAT6 phosphorylation in Th1 cells by inhibiting the recruitment of STAT6 to the IL-4 receptor. AAI DC.
  16. 2004 Huang, H, YC Zhu, JP. Xin, S. Alkan, and L. Chen. Adaptive Immune Component Coordinates with Innate Immune Components to Generate Type-2 Immunity. 12th International Congress of Immunology and 4th Annual Conference of FOCIS, Montreal, Canada. Oral presentation.
  17. 2004 Yuechun Zhu, Luqiu Chen, Zan Huang, Serhan Alkan, Kevin D. Bunting, Ren Ren Wen, Demin Wang, and Hua Huang. IL-5 Primes Th2 Cytokine-Producing Capacity in Eosinophil's through a STAT5-Dependent Mechanism. Autumn Immunology Conference, Chicago. Oral presentation.
  18. Zan Huang and Hua Huang. IFN- $\gamma$  mediates Th1 cell commitment through STAT1. Autumn Immunology Conference, Chicago. Oral presentation.
  19. Yuechun Zhu, Wenting Sun, Serhan Alkan, Demin Wang, and Hua Huang. STAT5 is required for IL-3 to direct bone marrow progenitor cells to develop into IL-4-producing innate effector cells. Annual meeting of American Associate of Immunologist, San Diego. Oral presentation.
  20. HS Jin, J Nishida, S Carney, YC Zhu, W Sun, S Alkan, D Wang and Hua Huang. Differentiation of Th2 cytokine-producing hematopoietic cells. Keystone symposium.
  21. Hua Huang, HS Jin, J Nishida, S Carney, YC Zhu, W Sun, S Alkan, and D Wang. Molecular control that regulates IL-4 expression in eosinophil's and monocytes. Cold Spring Harbor.
  22. Yonghua Zhuang, Zan Huang, Jun Nishida, Jennifer Masuda, Laurent Gapin, Melissa Brown, Lin Zhang, Hua Huang. Role of IFN- $\gamma$  and IL-12 in Silencing the IL-4-Producing Potential in Th1 Cells. AAI Miami.
  23. H Huang, Y. Zhuang, J. Nishida, M. Brown, L. Zhang IFN-gamma directly silences the IL-4-producing potential in TH1 cells. 13<sup>th</sup> International Congress of Immunology, Rio de Janeiro, Brazil, 2007. Oral presentation.
  24. H. Huang, J. Nishida<sup>2</sup>, Y. Zhuang<sup>1</sup>, K. Ohmori<sup>3</sup>, L. Chaves<sup>1</sup>; C/EBP $\alpha$  is critical for interleukin-4 expression by basophils. 14<sup>th</sup> International Congress of Immunology. Kobe, Japan, 2010.

25. S. Wang<sup>\*</sup>, Y. Zhuang<sup>\*</sup>, N. Erekosima, R. Katial, R. Alam, H. Huang. (\*contributed equally). Human IL-27 Suppresses Th2 Cell Differentiation Independent of IFN- $\gamma$  and IL-10. AAAAI annual meeting March, 2011 (San Francisco). Oral presentation.
26. Zhihong Chen, Shanze Wang, Yonghua Zhuang, Nkiruka Erekosima, Jessie Hong, Chunxue Bai, Rafeul Alam, Hua Huang. IL-4, but not IL-2, induces Th2 cells to resist the IL-27 counterregulation by downregulating STAT1 phosphorylation. AAAI, 2012.