

CURRICULUM VITAE

CHUANLIN DING

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Education:

09/2000 – 07/2003 Ph.D., Immunology, Chinese Center for Disease Control and Prevention/ Nanjing Medical University (China)
09/1990 – 07/1993 M.S., Immunology and Microbiology, Nanjing Medical University (China)
09/1985 – 07/1989 Laboratory Medicine, Jiangsu Staff Medical University (China)
09/1981 – 07/1984 Laboratory Medicine, Nanjing Health School (China)

Professional Experience:

01/2013 – present Assistant Professor, University of Louisville, Louisville, KY
01/01/2011 – 12/31/2012 Instructor, University of Louisville, Louisville, KY
09/2006 – 12/2010 Research Associate, University of Louisville, Louisville, KY
01/2004 – 08/2006 Postdoctoral Fellow, University of Louisville, Louisville, KY
09/1993 – 07/2000 Lecturer, Jiangsu Staff Medical University (China)
09/1984 – 08/1990 Teaching Assistant, Nanjing Health School (China)

Awards/Honors:

- The American of Association of Immunologists (AAI) Early Career Faculty Travel Grant (2018)
- AAI Early Career Faculty Travel Grant (2016)
- AAI Early Career Faculty Travel Grant (2015)
- AAI Early Career Faculty Travel Grant (2014)
- Arthritis Foundation Postdoctoral Fellowship (07/01/2007-06/30/2010)
- Brown Cancer Center Annual Retreat Award, Second Place (University of Louisville, 2008)
- The Ralph Scott Postdoctoral Fellow Research Prize, third place (2007)
- The Science and Technology Advancement Award of Jiangsu Province (1997, China)
- Excellent Paper of 2002 Symposium of Jiangsu Young Microbiologists (Society of

- Microbiology of Jiangsu Province, 2002, China)
- Excellent Graduate Student Scholarship (Nanjing Medical University, 2001-2002, China)

Recent Publications:

- 1 Xuan Sun, Yihua Cai, Chris Fleming, Zan Tong, Zhenglong Wang, **Chuanlin Ding**, Minye Qu, Huang-ge Zhang, Jian Suo, Jun Yanb. Innate $\gamma\delta$ T17 cells play a protective role in DSS-induced colitis via recruitment of Gr-1+CD11b+ myeloid suppressor cells. *Oncoimmunology*. 2017; 6(5): e1313369.
2. Chengcheng Wang, Liang Feng, Jiayan Su, Li Cui, Dan Liu, Jun Yan, **Chuanlin Ding**, Xiaobin Tan, Xiaobin Jia. Polysaccharides from *Epimedium koreanum* Nakai with immunomodulatory activity and inhibitory effect on tumor growth in LLC-bearing mice. *Journal of Ethnopharmacology*. 2017; 207; 8-18
3. **Chuanlin Ding***, Xingguo Chen, Paul Dascani, Xiaoling Hu, Roberto Bolli, Huang-ge Zhang, Kenneth R. Mcleish, and Jun Yan. STAT3 signaling in B cells is critical for germinal center maintenance and contributes to the pathogenesis of murine models of lupus. *Journal of Immunology*. 2016;196:4477-4486 (***Co-corresponding author**)
4. Sabrin H. Albeituni*, **Chuanlin Ding***, Min Liu, Xiaoling Hu, Fengling Luo, Goetz Kloecker, Michael Bousamra II, Huang-ge Zhang, Jun Yan. Yeast-derived particulate β -glucan treatment subverts the suppression of myeloid-derived suppressor cells (MDSC) by inducing polymorphonuclear MDSC apoptosis and monocytic MDSC differentiation to APC in cancer. *Journal of Immunology*, 2016; 196: 2167-2180 (***Co-first author**)
5. Min Liu*, Fenglin Luo*, **Chuanlin Ding***, Sabrin H. Albeituni, Xiaoling Hu, Jun Yan. Dectin-1 activation by a natural product β -glucan converts immunosuppressive macrophages into an M1-like phenotype. *Journal of Immunology*. 2015; 195:5055-5065 (***Co-first author**)
6. Jun Yan, Goetz Kloecker, Chris Fleming, Michael Bousamra, II, Richard Hansen, Xiaoling Hu, **Chuanlin Ding**, Yihua Cai, Dong Xiang, Howard Donninger, John W Eaton, Geoffrey J Clark. Human polymorphonuclear neutrophils specifically recognize and kill cancerous cells. *Oncoimmunology*. 2014; 3(7): e950163.
7. Yihua Cai, Feng Xue, Chris Fleming, Jie Yang, **Chuanlin Ding**, Yunfeng Ma, Min Liu, Huang-ge Zhang, Jie Zheng, Na Xiong & Jun Yan. Differential developmental requirement and peripheral regulation for dermal V γ 4 and V γ 6T17 cells in health and inflammation. *Nat Commun*. 2014; 5:3986.
8. Sabrin H. Albeituni, **Chuanlin Ding**, Jun Yan. Hampering the Immune Suppressors: Therapeutic Targeting of Myeloid-Derived Suppressor Cells (MDSC) in Cancer. *Cancer J*. 2013; 19(6): 490–501.
9. **Chuanlin Ding**, Yunfeng Ma, Xingguo Chen, Min Liu, Yihua Cai, Xiaoling Hu, Dong Xiang, Swapan Nath, Huang-ge Zhang, Hong Ye, David Powell, Jun Yan. Integrin ITGAM/CD11b negatively

- regulates BCR signaling to maintain autoreactive B cell tolerance. *Nature Communications*. 2013; 4:2813
10. Yunfeng Ma, Dong Xiang, Jinwen Sun, **Chuanlin Ding**, Min Liu, Xiaoling Hu, Guoxin Li, Goetz Kloecker, Huang-ge Zhang and Jun Yan. Targeting of Antigens to B Lymphocytes via CD19 as a Means for Tumor Vaccine Development. *J Immunol* 2013; 190 (11): 5588-5599
 11. Hong Xu, Jun Yan, Ziqiang Zhu, Lala-Rukh Hussain, Yiming Huang, **Chuanlin Ding**, Larry D. Bozulic, Yujie Wen, Suzanne T. Ildstad. A Critical Role for the TLR4/TRIF Pathway in Allogeneic Hematopoietic Cell Rejection by Innate Immune Cells. *Cell Transplant*. 2013; 22(12): 10.3727
 12. Lacey Gunn, **Chuanlin Ding***, Min Liu, Yunfeng Ma, Chunjian Qi, Yihua Cai, Xiaoling Hu, Deep Aggarwal, Huang-ge Zhang and Jun Yan. Opposing Roles for Complement Component C5a in Tumor Progression and the Tumor Microenvironment. *J Immunol* 2012, 189 (6) 2985-2994 (***Co-first author**)
 13. Yihua Cai, Xiaoyan Shen, **Chuanlin Ding**, Chunjian Qi, Kejia Li, Xia Li, Venkatakrishna R. Jala, Huang-ge Zhang, Tian Wang, Jie Zheng, Jun Yan. Pivotal Role of Dermal IL-17-Producing $\gamma\delta$ T Cells in Skin Inflammation. *Immunity*, 2011; 35: 596-610
 14. Chunjian Qi, Yihua Cai, Lacey Gunn, **Chuanlin Ding**, Bing Li, Goetz Kloecker, Keqing Qian, John Vasilakos, Shinobu Saijo, Yoichiro Iwakura, John R. Yannelli, Jun Yan. Differential pathways regulating innate and adaptive anti-tumor immune responses by particulate and soluble yeast-derived β -glucans. *Blood*. 2011; 117:6825-6836
 15. Bing Li, Yihua Cai, Chunjian Qi, Richard Hansen, **Chuanlin Ding**, Thomas C. Mitchell, Jun Yan. Orally administered particulate β -glucan modulates tumor-capturing dendritic cells and improves antitumor T-cell responses in cancer. *Clin Cancer Res*. 2010; 16:5153-5164
 16. Hong Xu, Yiming Huang, Lala-Rukh Hussain, Ziqiang Zhu, Larry D. Bozulic, **Chuanlin Ding**, Jun Yan, Suzanne T. Ildstad. Sensitization to minor antigens is a significant barrier in bone marrow transplantation and is prevented by CD154:CD40 blockade. *Am J Transplant*. 2010; 10:1569-1579.
 17. **Chuanlin Ding**, Yihua Cai, Jose Marroquin, Suzanne T. Ildstad, Jun Yan. Plasmacytoid dendritic cells regulate autoreactive B cell activation via soluble factors and in a cell-to-cell contact manner. *Journal of Immunology*. 2009, 183: 7140 -7149
 18. **Chuanlin Ding**, Li Wang, Jose Marroquin, and Jun Yan. Targeting of antigens to B cells augments antigen-specific T-cell responses and breaks immune tolerance to tumor-associated antigen MUC1. *Blood*. 2008;112: 2817-2825
 19. Michael Driscoll, Richard Hansen, **Chuanlin Ding**, Daniel E. Cramer and Jun Yan. Therapeutic potential of various beta-glucan sources in conjunction with anti-tumor monoclonal antibody in cancer therapy. *Cancer Biology & Therapy*. 2009; 8:1-8

20. Hong Xu, Jun Yan, Yiming Huang, Paula M. Chilton, **Chuanlin Ding**, Carrie L. Schanie, Li Wang, and Suzanne T. Ildstad. Costimulatory blockade of CD154-CD40 in combination with T-cell lymphodepletion results in prevention of allogeneic sensitization. *Blood*. 2008, 111:3266-3275
21. Bing Li, Daniel Cramer, Stephanie Wagner, Richard Hansen, Chelsea King, Shelly Kakar, **Chuanlin Ding**, Jun Yan. Yeast glucan particles activate murine resident macrophages to secrete proinflammatory cytokines via MyD88- and Syk kinase-dependent pathways. *Clin Immunol*. 2007;124:170-181
22. **Chuanlin Ding**, Jun Yan. Regulation of autoreactive B cells: checkpoints and activation (Review). *Arch Immunol Ther Exp*. 2007; 55:83-89
23. Fang Wang, Kun Yao, Quan-Zhang Yin, Feng Zhou, **Chuan-Lin Ding**, Guang-Yong Peng, Jian Xu, Yun Chen, Dong-Ju Feng, Chun-Lin Ma and Wen-Rong Xu. Human herpesvirus-6-specific interleukin 10-producing CD4+ T cells suppress the CD4+ T-cell response in infected individuals. *Microbiology and Immunology*. 2006; 50:787-803
24. **Chuanlin Ding**, Li Wang, Hayma AL-Ghawi, Jose Marroquin, Mark Mamula, Jun Yan. Toll-like receptor engagement stimulates anti-snRNP autoreactive B cells for activation. *European Journal of Immunology*. 2006; 36: 2013 -2024
25. Bing L, Daniel J. Allendorf, Richard Hansen, Jose Marroquin, **Chuanlin Ding**, Daniel E. Cramer, Jun Yan. Yeast β -glucan amplifies phagocyte killing of iC3b-opsonized tumor cells via complement receptor 3-Syk-phosphatidylinositol 3-kinase pathway. *Journal of Immunology*, 2006; 177: 1661-1669
26. **Chuanlin Ding**, Kun Yao, Tian-Tai Zhang, Feng Zhou, Lin Xu, Jiang-Ying Xu. Generation of cytotoxic T cell against HBcAg using retrovirally transduced dendritic cells. *World Journal of Gastroenterology*. 2003; 9: 1512-1215
27. Kun Yao, Guangyong Peng, **Chuanlin Ding**, Feng Zhou, Fangyi Xie. Generation and functional analysis of EBV LMP2A-specific CTL elicited by DC transfected with recombinant adenovirus in vitro. *Chinese Journal of Immunology*. 2004; 20: 816-820
28. **Chuanlin Ding**, Kun Yao, Tiantai Zhang, Jiangyin Xu, Lin Xu, Guangyong Peng. Expression of HBcAg in eukaryotic cells by retroviral vector mediated gene transfer. *Chinese Journal of Experimental and Clinical Virology*. 2003; 17: 81-84.
29. **Chuanlin Ding**, Kun Yao, Tiantai Zhang, Guangyong Peng. Transfection of retroviral-mediated hepatitis B virus core gene into bone marrow-derived dendritic cells. *Journal of cellular and molecular immunology*. 2003; 19: 299-301

Research Support:

Ongoing Research Support

University of Louisville Competitive Enhancement Grant 05/15/18-05/14/19
Inflammation following cancer chemotherapy induces immunosuppression in tumor microenvironment
Role: PI

ACS research scholar grant 01/01/15-12/31/18
Reversing MDSC-mediated Immunosuppression by β -Glucan Treatment
The goal of this project is to elucidate the molecular mechanism by which β -glucan reverse MDSC-mediated immunosuppression in tumor-bearing mice and lung cancer patients.
Role: PI

Completed Research Support

Funding Source: NIAID 09/01/15-08/31/17
Role of STAT3 signaling in GC B cell regulation
This study is to determine the cellular and molecular mechanisms by which STAT3 signaling pathway regulates the germinal center formation and germinal center B cell response.
Role: Co-Investigator

Kentucky Lung Cancer Research Program 07/01/12-06/30/15
 β -glucan Modulates Differentiation and Function of Myeloid-derived Suppressor Cells in Lung Cancer
The goal of this study is to investigate the effects of β -glucan treatment on MDSC function and differentiation in tumor-bearing mice.
Role: PI

University of Louisville School of Medicine 07/01/11-06/30/12
Comparative Analysis of Gene Expression Profiles between CD11b Deficient and Wild-type Autoreactive B Cells
This project is to define the mechanism by which CD11b integrin pathway regulates BCR signaling.
Role: PI

Arthritis Foundation Postdoctoral Fellowship 07/01/07-06/30/10
Regulation of Autoreactive B Cells by Plasmacytoid Dendritic Cells
This study is to investigate the mechanism by which plasmacytoid dendritic cells regulate autoreactive B cell activation and differentiation for autoantibody production.