

## MSTP STUDENT DESCRIPTION

NAME: Allen Ho

e-Mail address: allenho@buffalo.edu

Undergraduate College/University attended: University of Chicago

Major: Biological Sciences

Years in MSTP (1-8): 3

DEPARTMENT: Oral Biology

THESIS ADVISOR: Sarah Gaffen.Ph.D.

### RESEARCH DESCRIPTION:

PhD Thesis title: Differential Expression and Signaling domains of IL-17RC

Date of Completion (or expected) of PhD: 2011

Research Description: IL-17 signal transduction

### PUBLICATIONS / ABSTRACTS PRESENTED:

1. Marks RE, **Ho AW**, Rivas F, Marshall E, Janardhan S, Gajewski TF. Differential Ras signaling via the antigen receptor and IL-2 receptor in primary T lymphocytes. *Biochem Biophys Res Commun*. 2003 Dec 19;312(3):691-6.
2. Dobyms WB, Filauro A, Tomson BN, Chan AS, **Ho AW**, Ting NT, Oosterwijk JC, Ober C. Inheritance of most X-linked traits is not dominant or recessive, just X-linked. *Am J Med Genet A*. 2004 Aug 30;129(2):136-43.
3. Santos DD, Hatjiharissi E, Tournilhac O, Chemaly MZ, Leleu X, Xu L, Patterson C, Branagan AR, Manning RJ, **Ho AW**, Hunter ZR, Dimmock EA, Kutok JL, Churchill WH, Castells MC, Tai YT, Anderson KC, Treon SP. CD52 is expressed on human mast cells and is a potential therapeutic target in Waldenstrom's Macroglobulinemia and mast cell disorders. *Clin Lymphoma Myeloma*. 2006 May;6(6):478-83.
4. Leleu X, O'Connor K, **Ho AW**, Santos DD, Manning R, Xu L, Hatjiharissi E, Moreau AS, Branagan AR, Hunter ZR, Dimmock EA, Soumerai J, Patterson C, Ghobrial I, Treon SP. Hepatitis C viral infection is not associated with Waldenstrom's macroglobulinemia. *Am J Hematol*. 2007 Jan;82(1):83-4.
5. Zha Y\*, Marks R\*, **Ho AW\***, Peterson AC, Janardhan S, Brown I, Praveen K, Stang S, Stone JC, Gajewski TF. \* **Co-first authors**. T cell anergy is reversed by active Ras and is regulated by diacylglycerol kinase- $\alpha$ . *Nat Immunol*. 2006 Nov;7(11):1166-73. Epub 2006 Oct 8. Erratum in: *Nat Immunol*. 2006 Dec;7(12):1343
6. Hatjiharissi E, Hansen M, Santos DD, Xu L, Leleu X, Dimmock EW, **Ho AW**, Hunter ZR, Branagan AR, Patterson CJ, Kortsaris A, Verselis S, Fox E, Treon SP. Genetic Linkage of Fc $\gamma$ RIIa and Fc $\gamma$ RIIIa and Implications for Their Use in Predicting Clinical Responses to CD20-Directed Monoclonal Antibody Therapy. *Clin Lymphoma Myeloma*. 2007 Jan;7(4):286-90.

7. Marks RE, **Ho AW**, Robbel C, Kuna T, Berk S, Gajewski TF. Farnesyltransferase inhibitors inhibit T cell cytokine production at the post-transcriptional level. *Blood*. 2007 Sep 15;110(6):1982-8. Epub 2007 Jun 1.
8. Ditzel Santos D, **Ho AW**, Tournilhac O, Hatjiharissi E, Leleu X, Xu L, Tassone P, Neri P, Hunter ZR, Chemaly MA, Branagan AR, Manning RJ, Patterson CJ, Moreau AS, Ciccarelli B, Adamia S, Kriangkum J, Kutok JL, Tai YT, Zhang J, Pilarski LM, Anderson KC, Munshi N, Treon SP. Establishment of BCWM.1 cell line for Waldenstrom's macroglobulinemia with productive in vivo engraftment in SCID-hu mice. *Exp Hematol*. 2007 Sep;35(9):1366-75.
9. Treon SP, Hatjiharissi E, Leleu X, Moreau AS, Roccaro A, Hunter ZR, Soumerai JD, Ciccarelli B, Xu L, Sacco A, Ngo HT, Jia X, Yang C, Adamia S, Branagan AR, **Ho AW**, Santos DD, Tournilhac O, Manning RJ, Leduc R, O'Connor K, Nelson M, Patterson CJ, Ghobrial I. Novel agents in the treatment of Waldenstrom's macroglobulinemia. *Clin Lymphoma Myeloma*. 2007 Aug;7 Suppl 5:S199-206.
10. **Ho AW**, Hatjiharissi E, Ciccarelli BT, Branagan AR, Hunter ZR, Leleu X, Tournilhac O, Xu L, O'Connor K, Manning RJ, Santos DD, Chemaly M, Patterson CJ, Soumerai JD, Munshi NC, McEarchern JA, Law CL, Grewal IS, Treon SP. CD27-CD70 interactions in the pathogenesis of Waldenstrom's Macroglobulinemia. *Blood*. 2008 Dec 1;112(12):4683-9.
11. Moreau AS, Sebti Y, Duhamel A, Roccaro AM, Coiteux V, Gastinne T, Le Fric G, Burwik N, Amiot L, **Ho AW**, Poulain S, Hennache B, Hunter ZR, Dessaint JP, Ghobrial IM, Treon SP, Facon T, Zorn E, Leleu X. Clinical relevance of soluble HLA class I molecules in Waldenstrom Macroglobulinemia. *Eur J Haematol*. 2008 Mar 10.
12. Leleu X, Xu L, Jia X, Sacco A, Farag M, Hunter ZR, Moreau AS, Ngo HT, Hatjiharissi E, **Ho AW**, Santos DD, Adamia S, O'Connor K, Ciccarelli B, Soumerai J, Manning RJ, Patterson CJ, Roccaro AM, Ghobrial IM, Treon SP. Endoplasmic reticulum stress is a target for therapy in Waldenstrom macroglobulinemia. *Blood*. 2009 Jan 15;113(3):626-34. Epub 2008 Nov 3.
13. Conti HR, Shen F, Nayyar N, Stocum E, Sun JN, Lindemann MJ, **Ho AW**, Hai JH, Yu JJ, Jung JW, Filler SG, Masso-Welch P, Edgerton M, Gaffen SL. Th17 cells and IL-17 receptor signaling are essential for mucosal host defense against oral candidiasis. *J Exp Med*. 2009 Feb 16;206(2):299-311. Epub 2009 Feb 9.
14. Leleu X, Hunter ZR, Xu L, Roccaro AM, Moreau AS, Santos DD, Hatjiharissi E, Bakthavachalam V, Adamia S, **Ho AW**, Soumerai J, Patterson CJ, Manning RJ, Hamilton S, Verselis S, Fox E, Carrasco R, Ghobrial IM, Treon SP. Expression of regulatory genes for lymphoplasmacytic cell differentiation in Waldenstrom Macroglobulinemia. *Br J Haematol*. 2009 Feb 6. [Epub ahead of print]

PROFESSIONAL/EDUCATIONAL MEETINGS ATTENDED (name of meeting, dates of attendance, location):

1. **Ho AH**. Oral Presentation. Harvard Institutes of Medicine. Effects of prolonged sleep deprivation on cortisol secretion in humans. August 2000.
2. **Ho AH**, Gronfier C, Czeisler CA. Oral Presentation. Effects of prolonged sleep deprivation on cortisol secretion in humans. *Sleep* 24: A251 – A252, 2001.

3. **Ho, AW.** Oral Presentation. Annual Committee on Immunology Retreat. T cell anergy is reversed by active Ras. October 2002.
4. **Ho AW, Marks R, Brown IE, Gajewski TF.** Oral Presentation. T cell anergy is reversed by active Ras. Autumn Immunology Conference. November 2002.
5. **Ho AW, Marks R, Peterson A, Janardhan S, Brown IE, Gajewski TF.** Poster Presentation. T cell anergy is reversed by active Ras and regulated by DAG kinase. Keystone Symposia on Basic Aspects of Tumor Immunology. February 2003.
6. **Ho AW, Leleu X, Hatjiharissi E, Tournilhac O, Xu L, O'Connor K, Manning R, Santos D, Chemaly M, Branagan A, Hunter Z, Patterson C, Anderson KC, Treon SP.** Oral Presentation. A Novel Functional Role for Soluble CD27 in the Pathogenesis of Waldenstrom's Macroglobulinemia. American Society of Hematology Meeting. December 2005.
7. **Ho AW, Hatjiharissi E, Branagan A, Hunter Z, McEarchern J, Law C, Grewal IS, Santos D, Tai Y, Treon SP, Bing Center for Waldenstrom's Macroglobulinemia.** Oral Presentation. Therapeutic targeting of CD70 and CD27-CD70 interactions with the monoclonal antibody SGN-70 in Waldenstrom's Macroglobulinemia (WM). American Society of Clinical Oncology Annual Meeting. June 2006.

#### AWARDS / HONORS:

- |      |   |
|------|---|
| 2000 | Nathaniel Kleitman Fellowship; Harvard Medical School, Boston, MA   |
| 2001 | Summer Research Fellowship; Harvard Medical School, Boston, MA  |
| 2003 | Sigma Chi; National Research Honor Society  |
| 2007 | Dean's Letter of Commendation for the 1 <sup>st</sup> year; The University at Buffalo School of Medicine and Biomedical Sciences, Buffalo, NY |
| 2008 | The Tylenol Health Scholarship Winner   |
| 2008 | Dean's Letter of Commendation for the 2 <sup>nd</sup> year; The University at Buffalo School of Medicine and Biomedical Sciences, Buffalo, NY |
| 2009 | Department of Oral Biology Award; The University at Buffalo School of Dental Medicine, Buffalo, NY  |

#### MEDICAL SCHOOL ACTIVITIES:

#### EXTRACURRICULAR INTERESTS:

Hockey, Football, and Hiking