

## **EVAN F. LIND Ph.D.**

Assistant Professor  
Department of Molecular Microbiology and Immunology,  
Cell and Developmental Biology.  
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Portland, OR 97239  
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### **EDUCATION & RESEACH EXPERIENCE**

#### **Postdoctoral fellowship**

2007-2013

The Campbell Family Institute for Cancer Research, Ontario Cancer Institute,  
Princess Margaret Hospital, Toronto, ON Canada

Advisor: Dr. Pamela S. Ohashi

Initiated new projects in the lab on miRNA and hematopoietic stem cells. Gained experience studying host-pathogen interactions and immunity using several viral and bacterial infectious agents.

#### **Ph.D., Microbiology and Immunology**

2000-2007

Dartmouth Medical School, Hanover, NH

Thesis Advisor: Dr. Randolph J. Noelle

Ph.D. Thesis: The role of NF- $\kappa$ B inducing kinase in dendritic cell function

Elucidated the role of the non-canonical NF- $\kappa$ B pathway in DC biology. By looking at signaling downstream of CD40, found that DCs lacking components of this pathway were impaired at cross priming functional CD8 T cell responses. This data has impact on cancer vaccine strategies currently being developed by the Noelle lab.

#### **Research technician**

1997-2000

Memorial Sloan-Kettering Cancer Center, New York, NY

Supervisor: Dr. Howard T. Petrie

Research project: Thymocyte development

Worked on several lines of research including cell cycle regulation and thymocyte development. Helped identify the migratory pathway of developing thymocytes in the mouse, leading to a better understanding of the importance of different thymic microenvironments on T cell development. Operated and maintained BD VantageSE and Cytomation MoFlo cell sorters.

#### **Research technician**

1996-1997

The Population Council, New York, NY

Supervisor: Dr. Kalyan Sundaram

Research project: Metabolism of synthetic androgenic steroids for use in male contraceptives

Studied steroid metabolism, pre-clinical development of male contraceptives.

#### **B.A., Biology**

New York University, New York, NY

1992-1996

## **TEACHING EXPERIENCE**

Ithaca College, Ithaca, NY. Title: “The immune response to viral and intracellular bacterial infection: It's all fun and games until someone gets leukemia.” Talk to undergraduate biology department. Jan. 31, 2013

Pretty River Academy (High school), Collingwood, Ontario. Title: “How knowledge of immunology has impacted the world with 2 Examples: Smallpox and Polio.” Gave lecture to entire high school in 2 sections (Freshman/Sophomore followed by Junior/Senior). Feb. 25, 2011

Canada Wide Science Fair (CWSF). Judged posters and interviewed contestants, high school level. 2011

University of Toronto Department of Medical Biophysics retreat. Title: “Micro-RNA155 is involved in the response to bacterial infection (a focus on dendritic cells): Immunology free of “CDs” and “ILs”. Oct. 20, 2009

IMM2021L/2100L Special Topics in Immunology I and II: Immunology Tonight, University of Toronto Immunology Department. 2008

Graduate Committee Member, Molecular and Cellular Biology Program, Dartmouth Medical School, 2003

Teaching Assistant, Dartmouth College, Biology 15 (Cell Biology), 2001

## **FELLOWSHIPS, HONORS AND AWARDS**

Ontario Ministry of Research and Innovation postdoctoral fellowship, 2009-2011 (Competitive postdoctoral fellowship covering salary)

Best poster presentation award. Canadian Cancer Immunotherapy Consortium meeting. April 2010 Niagara Falls, Ontario

W.P. Caven Foundation Fellowship, 2007-2009 (Competitive postdoctoral fellowship covering salary)

Keystone Symposia Scholarship, Survival and Death in Immune Tolerance and Homeostasis, March 2005, Keystone, CO (travel/expenses award)

Keystone Symposia Scholarship, NF- $\kappa$ B: Biology and Pathology, January 2004, Snowbird, UT (travel/expenses award)

Fellow of the Albert J. Ryan Foundation, 2003-present

NIH/NIAID Training grant T32 AI07363, Immunobiology of Myeloid and Lymphoid Cells (W.R. Green, director), 2003-2005

## PUBLICATIONS

**Lind EF**, Ohashi PS. Micro-RNAs in T cell function. **European Journal of Immunology**. Jan;44(1):11-5. (2014)

**Lind EF**, Elford AR, Ohashi PS. Micro-RNA 155 Is Required for Optimal CD8<sup>+</sup> T Cell Responses to Acute Viral and Intracellular Bacterial Challenges. **Journal of Immunology**. Feb 1;190(3):1210-6. doi: 10.4049. (2013)

Sasaki M, Knobbe CB, Munger JC, **Lind EF**, Brenner D, Brüstle A, Harris IS, Holmes R, Wakeham A, Haight J, You-Ten A, Li WY, Schalm S, Su SM, Virtanen C, Reifemberger G, Ohashi PS, Barber DL, Figueroa ME, Melnick A, Zúñiga-Pflücker JC, Mak TW. IDH1(R132H) mutation increases murine haematopoietic progenitors and alters epigenetics. **Nature**. Aug 30;488(7413):656-9. doi: 10.1038/nature11323 (2012)

Chatterjee S, Seifried L, Feigin ME, Gibbons DL, Scuoppo C, Lin W, Rizvi ZH, **Lind E**, Dissanayake D, Kurie J, Ohashi P, Muthuswamy SK. Dysregulation of cell polarity proteins synergize with oncogenes or the microenvironment to induce invasive behavior in epithelial cells. **PLoS One**. 2012;7(4):e34343. doi: 10.1371/journal.pone.0034343. (2012)

Arpaia E, Blaser H, Quintela-Fandino M, Duncan G, Leong HS, Ablack A, Nambiar SC, **Lind EF**, Silvester J, Fleming CK, Rufini A, Tusche MW, Brüstle A, Ohashi PS, Lewis JD, Mak TW. The interaction between caveolin-1 and Rho-GTPases promotes metastasis by controlling the expression of alpha5-integrin and the activation of Src, Ras and Erk. **Oncogene**. Feb 16;31(7):884-96. doi: 10.1038/onc.2011.288. (2012)

Quintela-Fandino M, Arpaia E, Brenner D, Goh T, Yeung FA, Blaser H, Alexandrova R, **Lind EF**, Tusche MW, Wakeham A, Ohashi PS, Mak TW. HUNK suppresses metastasis of basal type breast cancers by disrupting the interaction between PP2A and cofilin-1. **Proceedings of the National Academy of Sciences USA**. Feb 9;107(6):2622-7 (2010)

Kamizono S, Duncan GS, Seidel MG, Morimoto A, Hamada K, Grosveld G, Akashi K, **Lind EF**, Haight JP, Ohashi PS, Look AT, Mak TW. Nfil3/E4bp4 is required for the development and maturation of NK cells in vivo. **Journal of Experimental Medicine**. Dec 21;206(13):2977-86 (2009)

**Lind EF**, Ahonen CL, Wasiuk A, Kosaka Y, Becher B, Bennett KA, Noelle RJ. Dendritic cells require the NF-kappaB2 pathway for cross-presentation of soluble antigens. **Journal of Immunology**. Jul 1;181(1):354-63 (2008)

Raman VS, **Lind EF**, Benson MJ, and Noelle RJ. Strategies for selective priming of memory B cells. **Immunology Letters**. 109(2):93-100 (2007)

Lu LF, Ahonen CL, **Lind EF**, Raman VS, Cook WJ, Lin LL and Noelle RJ. The in vivo function of a non-canonical TRAF2 binding domain in the C-terminus of CD40 in driving B cell growth and differentiation. **Blood**. Jul 1;110(1):193-200 (2007)

O'Connor BP, Vogel LA, Zhang W, Loo W, Shnider D, **Lind EF**, Ratliff M, Noelle RJ, and Erickson LD. Imprinting the Fate of Antigen-Reactive B Cells through the Affinity of the B Cell Receptor. **Journal of Immunology** 177:7723-7732 (2006)

Lu LF, **Lind EF**, Gondek DC, Bennett KA, Gleeson MW, Pino-Lagos K, Scott ZA, Coyle AJ, Reed JL, Van Snick J, Strom TB, Zheng XX, and Noelle RJ. Mast cells are essential intermediaries in regulatory T-cell tolerance. **Nature**. Aug 31;442(7106):997-100 (2006)

Quezada SA, Jarvinen LZ, **Lind EF**, and Noelle RJ. CD40/CD154 interactions at the interface of tolerance and immunity. **Annual Review of Immunology**. 22:307-328 (2004)

Ahonen C, Manning E, Erickson LD, O'Connor B, **Lind EF**, Pullen SS, Kehry MR, and Noelle RJ. The CD40-TRAF6 axis controls affinity maturation and the generation of long-lived plasma cells. **Nature Immunology**. 3(5):451-456 (2002)

North TE, de Bruijn MF, Stacy T, Talebian L, **Lind E**, Robin C, Binder M, Dzierzak E, and Speck NA. Runx1 expression marks long-term repopulating hematopoietic stem cells in the midgestation mouse embryo. **Immunity**. 16(5):661-672 (2002)

**Lind EF**, Prockop SE, Porritt HE, and Petrie HT. Mapping precursor movement through the postnatal thymus reveals specific microenvironments supporting defined stages of early lymphoid development. **Journal of Experimental Medicine**. 194(2):127-134 (2001) **Journal cover**

King LB, Tolosa E, Lenczowski JM, Lu F, **Lind EF**, Hunziker R, Petrie HT, and Ashwell JD. A dominant-negative mutant of c-Jun inhibits cell cycle progression during the transition of CD4(-) CD8(-) to CD4(+) CD8(+) thymocytes. **International Immunology**. 11(8):1203-1216 (1999)

**Lind EF**, Wayne J, Wang QZ, Staeva T, Stolzer A, and Petrie HT. Bcl-2-induced changes in E2F regulatory complexes reveal the potential for integrated cell cycle and cell death functions. **Journal of Immunology**. 162(9):5374-9 (1999)

## **BOOK CHAPTERS**

Nguyen LT, **Lind EF**, Ohashi PS. (2013). The Immune System and Immunotherapy. In Tannock I, *The Basic Science of Oncology (5<sup>th</sup> ed.)*. (pp. 501-529). McGraw-Hill Professional.

## **ORAL PRESENTATIONS**

Mir-155 is required for optimal CD8+ T cell responses to LCMV and Listeria infection. Canadian Society for Immunology Annual Meeting. June 2012, St. Johns, Newfoundland

Dendritic cell function and autoimmunity by microRNA-155 and micro-RNAs in bacterial infection and leukemia. University of Virginia. Beirne B. Carter Center for Immunology Research. May 14, 2010, Charlottesville, VA

Regulation of dendritic cell function and autoimmunity by microRNA-155. The American Association of Immunologists (AAI) meeting. May 2010, Baltimore, MD

The Role of NF-kappaB Inducing Kinase in Dendritic Cell Function and Tolerance. Keystone Symposia: Survival and Death in Immune Tolerance and Homeostasis. Plenary session short talk, March 2005, Keystone, CO

NIK/NF-κB2 regulates dendritic cell longevity. FASEB Summer Research Conference: Autoimmunity. Short talk, June 2003, Saxtons River, VT

The role of NIK and NF-κB2 in dendritic cell function. Albert J. Ryan Foundation Annual Meeting. Short talk, May 2003, Holderness, NH

## **POSTER PRESENTATIONS**

Interferon-alpha promotes expansion and lineage-specific differentiation of hematopoietic stem cells. Canadian Society for Immunology Annual Meeting. June 2012, St. Johns, Newfoundland

Micro-RNA 155 (mir-155) is required for optimal CD8+ T cell responses to acute viral and intracellular bacterial challenges. Canadian Society for Immunology Annual Meeting. June 2012, St. Johns, Newfoundland

Regulation of dendritic cell function and autoimmunity by microRNA-155. The American Association of Immunologists (AAI) meeting. May 2010, Baltimore, MD

Regulation of dendritic cell function and autoimmunity by microRNA-155. Canadian Cancer Immunotherapy Consortium meeting. April 2010, Niagara Falls, Ontario

NIK Independent NF-κB Activation in Dendritic Cells. New England Immunology Conference. November 2005, Woods Hole, MA.

The role of NF-κB inducing kinase in dendritic cell function and tolerance. American Association of Immunologists annual meeting. April 2005, San Diego, CA

The role of NF-κB inducing kinase in dendritic cell function and tolerance. Keystone Symposia: Survival and Death in Immune Tolerance and Homeostasis. March 2005, Keystone, CO

NF-κB-Inducing Kinase (NIK) Is a Molecular Link between Innate and Adaptive Immunity. 12<sup>th</sup> International Congress of Immunology. July 2004, Montreal, Canada

NF-κB-Inducing Kinase (NIK) Is a Molecular Link between Innate and Adaptive Immunity. Keystone Symposia: NF-κB: Biology and Pathology. January 2004, Snowbird, UT

The role of NIK/NF-κB2 in dendritic cell longevity and function. New England Immunology Conference. November 2003, Woods Hole, MA

## **PROFESSIONAL MEMBERSHIPS**

American Association of Immunology, 2010-present

American Society for Microbiology 2010-present

Canadian Society for Immunology 2011-present

**PROFESSIONAL CERTIFICATIONS**

Cytomation MoFlo Cell Sorter Operator Certificate, Cytomation Inc.