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Education and work experience:

University of Michigan Research Fellow Training in autoimmunity, Laboratory of Dr. Steve Lundy	Ann Arbor, MI March 2016
Research Fellow Training in autoimmunity, Laboratory of Dr. Yasmina Laouar	Nov. 2014
University of Western Ontario (UWO) Postdoctoral Fellow Training in autoimmunity and type 1 diabetes, Laboratory of Dr. Bhagie Singh	London, Ontario, Canada 2006 - 2014
University of Tehran Medical Science PhD degree in Immunology GPA: 3.8/4	Tehran, Iran Mar. 2006
University of Calgary Visiting Fellow Training in autoimmunity and type 1 diabetes, Laboratory of Dr. Pere Santamaria	Calgary, Alberta, Canada Nov. 2003 – Sep. 2005
University of Tabriz Medical Science Doctorate degree in Medical Laboratory Science GPA: 3.71/4	Tabriz, Iran Jul. 1996
University of Shiraz Medical Science Associate degree in Medical Technology GPA: 3.75/4	Shiraz, Iran Jan. 1991

Publications:

Nikoopour E, Krougly O, Lee-Chan E, Haeryfar SM, Singh B. Detection of vasostatin-1-specific CD8⁺ T cells in NOD mice that contribute to diabetes pathogenesis. Clin Exp Immunol. 2016 May 17. doi: 10.1111/cei.12811. [Epub ahead of print]

Bellemore SM,* **Nikoopour E**,* Krougly O, Lee-Chan E, Fouser L, Singh B. Pathogenic Th17 cells contribute to type 1 diabetes independently of IL-22. Clin Exp Immunol. 2015 Oct 19. *In press*. * **Equal contribution**

Bellemore SM,* **Nikoopour E**,* Schwartz JA, Krougly O, Lee-Chan E, Singh B. Preventative role of IL-17 producing regulatory Th17 (Treg17) cells in type 1 diabetes in NOD mice. *Clin Exp Immunol*. 2015 Aug 6. doi: 10.1111/cei.12691. [Epub ahead of print]. PMID: 26250153. * *Equal contribution*

Daniel Kreuzer, **Enayat Nikoopour**, Bryan C.Y. Au, Olga Krougly, Edwin Lee-Chan, Kelly L. Summers, S. Mansour Haeryfar and Bhagirath Singh. Reduced interferon- α production by dendritic cells in type 1 diabetes does not impair immunity to Influenza Virus. *Clin Exp Immunol*. 2015 Feb;179(2):245-55.

Enayat Nikoopour, Stacey M. Bellemore, and Bhagirath Singh. IL-22, cell regeneration and autoimmunity. *Cytokine*. 2014 Nov. pii: S1043-4666(14)00535-3.

Bellemore SM, **Nikoopour E**, Au BC, Krougly O, Lee-Chan E, Haeryfar SM, Singh B. Anti-atherogenic peptide Ep1.B derived from Apolipoprotein E induces tolerogenic plasmacytoid dendritic cells. *Clin Exp Immunol*. 2014 Sep;177(3):732-42.

Enayat Nikoopour, Rebecca Cheung, Stacey Bellemore, Olga Krougly, Edwin Lee-Chan, Mats Stridsberg, and Bhagirath Singh. Vasostatin-1 antigenic epitope mapping for induction of cellular and humoral immune responses to chromogranin A autoantigen in NOD mice. *Eur. J. Immunol*. 2014 Apr; 44(4):1170-80.

Enayat Nikoopour and Bhagirath Singh. Reciprocity in Microbiome and Immune System Interactions and its Implications in Disease and Health. *Inflamm. Allergy Drug Targets*. 2014;13(2):94-104.

Bhagirath Singh, Jordan Ari Schwartz, Christian Sandrock, Stacey M. Bellemore & **Enayat Nikoopour**. Modulation of autoimmune diseases by interleukin (IL)-17 producing regulatory T helper (Th17) cells. *Indian J. Med. Res*. 2013 Nov; 138(5):591-4.

Thomas Hill, Olga Krougly, **Enayat Nikoopour**, Stacey Bellemore, Edwin Lee-Chan, Lynette A Fouser, David J Hill and Bhagirath Singh. The involvement of interleukin-22 in the expression of pancreatic beta cell regenerative Reg genes. *Cell Regeneration*. 2013 Apr, 2:(2).

Bhagirath Singh, **Enayat Nikoopour**, Katrina Huszarik, John F. Elliott, and Anthony M. Jevnikar. Immunomodulation and Regeneration of Islet Beta cells by Cytokines in Autoimmune Type 1 Diabetes. *J. Interf & Cyt Res*. 2011 Oct; 31(10):711-9.

Nikoopour E, Sandrock C, Huszarik K, Krougly O, Lee-Chan E, Masteller EL, Bluestone JA, Singh B. Cutting Edge: Vasostatin-1-Derived Peptide ChgA29-42 Is an Antigenic Epitope of Diabetogenic BDC2.5 T Cells in Nonobese Diabetic Mice. *J Immunol*. 2011 Apr 1;186(7):3831-5.

Shahram F, **Nikoopour E**, Rezaei N, Saeedfar K, Ziaei N, Davatchi F, Amirzargar A. Association of interleukin-2, interleukin-4 and transforming growth factor-beta gene polymorphisms with Behcet's disease. *Clin Exp Rheumatol*. 2011 Jul-Aug;29(4 Suppl 67):S28-31.

Katrina Huszarik, Benjamin Wright, Christina Keller, **Enayat Nikoopour**, Olga Krougly, Edwin Lee-Chan, Mark J. Cameron, Werner K. Gurr, David J. Hill, Robert S. Sherwin, David J. Kelvin and Bhagirath Singh. Adjuvant Immunotherapy

upregulates Beta cell Regenerative factor Reg2 in the Pancreas of Diabetic Mice. *J Immunol*, 2010 Nov 1;185(9):5120-9.

Amirzargar A, Shahram F, **Nikoopour E**, Rezaei N, Saeedfar K, Ziaei N, Davatchi F. Proinflammatory Cytokine Gene Polymorphisms in Behcet's Disease. *Eur Cytokine Netw*. Nov 2010.

Enayat Nikoopour, Jordan Schwartz, Katrina Huszarik, Christian Sandrock, Olga Krougly, Edwin Lee-Chan and Bhagirath Singh. Th17 polarized cells from NOD mice following mycobacterial adjuvant immunotherapy delay type I diabetes. *J Immunol*, 2010 May 1;184(9):4779-88.

Tracey A. Stephens,* **Enayat Nikoopour**,* Beverly J. Rider, Matilde Leon-Pointe, Thu A. Chau, Sebastian Mikolajczak, Pratibha Chaturvedi, Edwin Lee-Chan, S.M. Mansour Haeryfar, Joaquin Madrenas and Bhagirath Singh. Dendritic Cell Differentiation Induced By A Self-Peptide Derived From Apolipoprotein E. *J Immunol*. 2008 Nov 15;181(10):6859-71. * **Equal contribution**

Nikoopour E, Schwartz JA, Singh B. Therapeutic benefits of regulating inflammation in autoimmunity. *Inflamm Allergy Drug Targets*. 2008 Sep; 7(3): 203-10.

Rezazadeh M, Hajilooi M, Rafiei A, Haidari M, **Nikoopour E**, Kerammatt F, Mamani M, Ranjbar M, Hashemi H. TLR-4 Polymorphism in Iranian Patients with Brucellosis. *J Infect*. 2006 Sep; 53(3): 206-10.

Oral presentation:

Th17 polarized cells from NOD mice following mycobacterial adjuvant immunotherapy delay type 1 diabetes development. Presented at: *IMMUNOLOGY 2010, 97th Annual Meeting of The American Association of Immunologists, May 7-11, Baltimore.*

Awards:

7th annual meeting of the Federation of Clinical Immunology Societies (FOCIS 2007) travel Award, San Diego, June 2007.

JDRF trainee/young investigator travel award to support attendance in annual meeting of the Federation of Clinical Societies (FOCIS 2009), San Francisco, June 2009.

26th annual meeting of the Canadian Society of Immunology (CSI) travel Award, Whistler, British Columbia, April 2013.

Skills:

- Isolation and culture of primary cells (mouse and human) and generation of cell lines
- Mucosal immunology: Isolation of cells from gut lamina propria, Peyer's patches and IEL
- Flow cytometry, Intracellular staining and Flowjo analysis
- Flow cytometry instrumentation: BD LSRII, FACS Canto, FACS Caliber

- Ex vivo isolation and 8 to 10-fluorophore immunophenotyping of leukocytes from lymphoid and non-lymphoid tissues
- MHC binding assay and tetramer staining
- T cell proliferation, MLR, and Chromium release CTL assay
- ELISA
- Cloning and molecular biology techniques, Plasmid prep, Cell transfection and electroporation, Western blot, PCR, electrophoresis, RNA isolation, cDNA synthesis, primer design, real time PCR

- Differentiation and characterization of bone marrow dendritic cells, Tregs and Th17 cells
- Data presentation: GraphPad Prism, Word, Powerpoint, Endnote and Reference manager

Membership:

Canadian Society of Immunology
 American association of immunologists

Professional and clinical practice:

Nikoopour Medical Diagnostic Laboratory 1997-2003, IRAN

Owner and Director of medical diagnostics laboratories for clinical biochemistry, hematology, serology and immunology, and microbiology

Scientific activities:

Judge for evaluating posters of graduate students presented at Inflammation and Immunity Research Forum (IIRF). University of western Ontario (UWO), November 2010 to 2013.

Judge for evaluating posters of graduate students presented at Margaret Moffat Graduate Research and Career Day held annually in University of western Ontario (UWO), March 2008 and 2010.

Judge for evaluating posters of graduate students presented at London Research Day held annually in University of western Ontario (UWO), March 2012, 2013, and 2014.

References:

1- Professor Baghirath Singh, University of Western Ontario

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3- Professor S. M. Mansour Haeryfar, University of Western Ontario

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