

**NOHA SHARAFELDIN**  
**MD, MSc, PhD**

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School of Medicine  
Institute for Cancer Outcomes and Survivorship  
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**EDUCATION** **Ph.D. in Public Health, GPA 4.0, 2014.**

School of Public Health, Department of Public Health Sciences,  
University of Alberta, Edmonton, Canada

Supervisors: Prof. Yutaka Yasui, University of Alberta; Dr. Marty Slattery, University of Utah, Dr. Irina Dinu, University of Alberta

Thesis title: Candidate-Pathway Gene Environment Interactions on Colon and Rectal Cancer Risk and Survival: Methodological Frameworks for Interaction in Genetic Association Studies

**M.Sc. in Community, Environmental and Occupational Medicine, Grade: Very Good 2004.**

Department of Community, Environmental and Occupational Medicine, Faculty of Medicine, University of Ain Shams, Cairo, Egypt

Supervisors: Dr. Arnaud Fontanet, Prof. Mohsen Gadallah, Prof. Mostafa K Mohamed, Dr. Mostafa El- Houssenie

Thesis title: Spontaneous Viral Clearance Among Acute Hepatitis C Patients

**M.B.B.Ch., Medical Graduate, Grade: Very Good with Honors, 1999.**

Faculty of Medicine, University of Ain Shams, Cairo, Egypt.

**WORK** **Postdoctoral Scholar, Sept 2015 – Present.**

**EXPERIENCE** Institute of Cancer Outcomes and Survivorship, Department of Medicine, University of Alabama at Birmingham, Birmingham, AL, USA

**Course Instructor, 2015 – Present.**

School of Public Health, University of Alberta, Edmonton, AB, Canada

**Research and Teaching Assistant, 2007 – 2015.**

School of Public Health, University of Alberta, Edmonton, AB, Canada

**Research Assistant, 2002 – 2010.**

Department of Community Medicine, Faculty of Medicine, Ain Shams University, Cairo, Egypt in collaboration with Institut Pasteur, Paris, France.

**Lecturer, 2001 – Present. (Currently on Leave)**

Department of Community Medicine, Faculty of Medicine, Ain Shams University, Cairo, Egypt.

**Anesthesiology Resident, 2000 - 2001.** Ain Shams University Hospitals, Faculty of Medicine, Ain Shams University, Cairo, Egypt.

**House Physician, 1999 - 2000.** Ain Shams University Hospitals, Faculty of Medicine, Ain Shams University, Cairo, Egypt.

- RESEARCH EXPERIENCE** **Institute for Cancer Outcomes and Survivorship, UAB**  
Postdoctoral Scholar, Mentor: Dr. Smita Bhatia, September 2015 - Present  
Project: Genetic markers of neurocognitive function in patients with hematologic malignancies undergoing hematopoietic cell transplantation
- Yasui Biostatistics Research team**  
**(Dr. Yutaka Yasui: Canada Research Chair in Biostatistics and AHFMR Health Senior Scholar)**  
Research Associate 2014 – 2015  
Research Assistant, 2007 – 2014.  
*Activities:* Conducting literature reviews, statistical data analysis, compiling research results, and preparing grants and research papers for publication.  
*Research Focus:* Chronic disease and infectious disease epidemiology, molecular epidemiology, and health services research.
- Viral hepatitis Surveillance and Treatment in Egypt projects**  
Research Assistant, 2002- 2010.  
*Projects:*  
- Survey on acute hepatitis in two Fever Hospitals in Greater Cairo.  
- Clinical trial of the efficacy of pegylated interferon (PEG-IFN $\alpha$ -2a) alone in Egyptian patients with acute hepatitis C (ANRS 1213).  
*Collaboration between:*  
Faculty of Medicine, Ain Shams University, Cairo, Egypt.  
National Tropical Medicine Research Institute, Cairo, Egypt.  
Egyptian Ministry of Health and Population.  
L'Institut Pasteur, Paris, France.  
French National Agency for AIDS and Hepatitis Research - L'Agence Nationale de Recherche sur le SIDA et les hepatites virales (ANRS), Paris, France.  
*Activities:*  
Development, implementation and follow-up of the studies on site; Data Management; Statistical Analysis; Writing manuscripts; Preparation of communications: poster and oral presentations.
- JOURNAL REVIEWS** Cancer  
Diagnostic Pathology  
European Journal of Cancer  
Medical Care
- TEACHING EXPERIENCE** **Course Instructor**, School of Public Health, University of Alberta.  
*SPH 561 Introduction to Genetic Epidemiology*, online course, Fall 2015 and Fall 2016.  
**Graduate Teaching Assistant**, School of Public Health, University of Alberta.  
*PHS 798 Biostatistics III*, Fall 2013.  
*PHS 597 Fundamentals of Epidemiology for Public Health*, Fall 2009 and Fall 2010.  
*PHS 598, Biostatistics I*, Fall 2008 and Fall 2009.

**Guest lecture**, Dec 2009. School of Public Health, University of Alberta.  
Introduction to Molecular Epidemiology

**Lecturer**, 2014 – Present. (Currently on Leave)  
Department of Community Medicine, Faculty of Medicine, Ain Shams University, Egypt.

**Assistant Lecturer**, 2004 – 2007.  
Department of Community Medicine, Faculty of Medicine, Ain Shams University, Egypt.

**Demonstrator**, 2001 – 2004.  
Department of Community Medicine, Faculty of Medicine, Ain Shams University, Egypt.

## FUNDING

### **R25 CA047888**

Demark-Wahnefried, Meneses (PIs)  
09/01/2015 – 08/31/2017

Sponsor: NIH/NCI

Role: Postdoctoral Scholar

UAB Cancer Prevention and Control Training Program

### **Dissertation Award, Faculty of Graduate Studies, University of Alberta**

2012 – 2013

### **Alberta Cancer Foundation Graduate Studentship**

Sponsors: Yutaka Yasui, Martha L Slattery  
2010 – 2012

Awarded to excellent full-time students currently pursuing masters or doctorate degrees related to cancer research in Alberta.

### **Alberta Innovates – Health Solutions Studentship**

Sponsor: Yutaka Yasui  
2009 – 2012

Awarded to academically superior students to undertake full-time research training in basic biomedical sciences and clinical research.

### **Egyptian Government Scholarship award**

2007 – 2010

Ain Shams University, Cairo, Egypt.

## HONOURS & AWARDS

**Nominated for the Governor General's Academic Medal by the School of Public Health, University of Alberta 2014 Fall Convocation, 2014.**

**CIHR Travel Awards, Institute Community Support in Partnership with CIHR - Institute of Cancer Research, 2014.**

**Golden Key International Honor Society, 2011 – Present.**

**School of Public Health Best Poster Presentation, 2010.**  
Insights'10; University of Alberta, Edmonton, Canada.

**Society of Epidemiologic Research student Dissertation Workshop Award, 2010.**  
Selected as one of top 12 PhD students to attend dissertation workshop and 2010 SER meeting, Seattle, Washington, USA.

**CIHR Research Poster Competition, Canadian Student Health Research Forum, 2010.**  
Recognized as being among top 5% of Canadian students in the health research field,

Winnipeg, Canada.

**Department of Public Health Sciences Travel Award, School of Public Health University of Alberta**, 2010. Awarded travel expenses to attend the Manitoba Centre for Health Policy 20<sup>th</sup> Anniversary Conference, Winnipeg, Manitoba, Canada.

**Scholar-In-Training Travel Award, Alberta Health Services**, 2009. Awarded travel expenses to attend Cohorts and Consortia: From Biotechnology to Populations conference, Banff, AB, Canada.

**Best International Publication award**, 2008. Ain Shams University, Egypt.

**Graduate Student Travel Award**, 2006. Institut Pasteur, Paris, France; awarded travel expenses to attend the 12th International Symposium on Viral Hepatitis, Paris, France.

**Graduate Student Travel Award**, 2004 and 2005. Institut Pasteur, Paris, France; awarded travel expenses to attend the Erasmus Summer Programme, The Netherlands.

**Graduate Student Travel Award**, 2004. Institut Pasteur, Paris, France; awarded travel expenses to join Post-graduate student exchange program (Egypt/France).

**COMPUTER SKILLS**

Excellent knowledge of informatics tools:  
Operating Systems: Windows, iOS, Linux (Cluster)  
Data Management and Statistics: STATA, R, SAS, SPSS  
Ms Office Applications: Word, Excel and Power Point  
Internet: Excellent Internet Research Skills

**VOLUNTEER ACTIVITIES**

**Abstract Review and Selection Committee member**, Sept 2013.  
Campus Alberta Graduate Student Conference, Banff, Alberta, Canada

**Abstract Judge**, 2012 Canadian Society for Epidemiology & Biostatistics National Student Conference, University of Saskatchewan, Canada. 2012.

**PhD Journal Club Student Coordinator**, 2010 – 2012.  
School of Public Health, University of Alberta

**Award Selection Committee member**, 2009 – 2012.  
Graduate Students Association (GSA), University of Alberta

**Organizing and Scientific Committee member**, Feb 2001.  
The 5<sup>th</sup> Pulmonary Medicine Update Course, Cairo, Egypt

**PUBLICATION LIST**

**Sharafeldin N**, Slattery M, Liu Q, Franco-Villalobos C, Potter JD, Caan BJ, Yasui Y. A Candidate Pathway Approach Identifies Multiple Gene-Environment Interactions in Association with Colon Cancer Risk and Survival. JNCI J Natl Cancer Inst (2015) 107 (9): djv160 doi: 10.1093/jnci/djv160

Dinu I, Mahasirimongkol S, Liu Q, Yanai H, **Sharaf Eldin N**, Kreiter E, et al. SNP-SNP Interactions Discovered by Logic Regression Explain Crohn's Disease Genetics. Plos One. 2012;7(10).

**Sharaf Eldin N**, Yasui Y, Scarfe A, Winget M. Adherence to Treatment Guidelines in Stage II/III Rectal Cancer in Alberta, Canada. *Clinical oncology*. 2012;24(1):e9-e17.

Nowak-Goettl U, Dietrich K, Schaffranek D, **Sharaf Eldin N**, Yasui Y, Geisen C, et al. In pediatric patients, age has more impact on dosing of vitamin K antagonists than VKORC1 or CYP2C9 genotypes. *Blood*. 2010;116(26):6101-5.

Mansour H, Laird ME, Saleh R, Casrouge A, **Sharaf Eldin N**, El Kafrawy S, et al. Circulating plasmacytoid dendritic cells in acutely infected patients with hepatitis C virus genotype 4 are normal in number and phenotype. *The Journal of infectious diseases*. 2010;202(11):1671-5.

Jimenez AP, **Sharaf Eldin N**, Rimlinger F, El-Daly M, El-Hariri H, El-Hoseiny M, et al. HCV iatrogenic and intrafamilial transmission in Greater Cairo, Egypt. *Gut*. 2010;59(11):1554-60.

Paez Jimenez A, **Sharaf Eldin N**, El-Hoseiny M, El-Daly M, Abdel-Hamid M, El Aidi S, et al. Community transmission of hepatitis B virus in Egypt: results from a case-control study in Greater Cairo. *International journal of epidemiology*. 2009;38(3):757-65.

Jimenez AP, Mohamed MK, **Sharaf Eldin N**, Seif HA, El Aidi S, Sultan Y, et al. Injection drug use is a risk factor for HCV infection in urban Egypt. *PloS one*. 2009;4(9):e7193.

Yasui Y, Hamajima N, Nakamura T, **Sharaf Eldin N**, Tajima K, Potter JD. Association of Epstein-Barr virus antibody titers with a human IL-10 promoter polymorphism in Japanese women. *J Autoimmune Dis*. 2008;5:2.

**Sharaf Eldin N**, Ismail S, Mansour H, Rekecewicz C, El-Houssinie M, El-Kafrawy S, et al. Symptomatic acute hepatitis C in Egypt: diagnosis, spontaneous viral clearance, and delayed treatment with 12 weeks of pegylated interferon alfa-2a. *PloS one*. 2008;3(12):e4085.

#### Manuscripts submitted

**Sharaf Eldin N**, Liu Q, Jabbari S, Wang L, Franco-Villalobos C, Mahasirimongkol S, Yanai H, Martin LJ, Tokunaga K, Yasui Y. Within-Gene Interactions in GWAS Identifies Novel Susceptibility Loci – The WTCCC Data Revisited.

**Sharaf Eldin N**, Slattery M, Liu Q, Franco-Villalobos C, Potter JD, Caan BJ, Yasui Y. A Multiple Gene-Environment Interactions on the Angiogenesis Gene-Pathway Impact Rectal Cancer Risk and Survival.

#### **Abstracts, conference proceedings, and conference presentations**

**Sharaf Eldin N**, Slattery ML, Liu Q, Franco-Villalobos C, Caan BJ, Potter JD, Yasui Y. Multiple Gene-Environment Interactions on the Angiogenesis Gene-Pathway Impact Rectal Cancer Risk and Survival. Oral Presentation: Canadian Society for Epidemiology and Biostatistics (CSEB), Mississauga, Ontario, Canada, June 2015.

**Sharaf Eldin N**, Slattery ML, Liu Q, Franco-Villalobos C, Caan BJ, Potter JD, Yasui Y. Methodological Frameworks for Identifying Interactions in Genetic Association Studies. Oral Presentation: Institute

of Cancer Outcomes and Survivorship, School of Medicine, University of Alabama, Birmingham, AL, USA, February 2015.

**Sharaf Eldin N**, Slattery ML, Liu Q, Franco-Villalobos C, Caan BJ, Potter JD, Yasui Y. A Candidate Pathway Approach Identifies Multiple Gene-Environment Interactions in Association with Colon Cancer Risk and Survival. Oral Presentation: Insights'14, School of Public Health, University of Alberta, Edmonton, Canada, November 2014.

**Sharaf Eldin N**, Slattery ML, Liu Q, Franco-Villalobos C, Caan BJ, Potter JD, Yasui Y. A Candidate Pathway Approach Identifies Multiple Gene-Environment Interactions in Association with Colon Cancer Risk and Survival. Poster Presentation: The 64<sup>th</sup> Annual Meeting of The American Society of Human Genetics, San Diego, California, United States, October 2014.

**Sharaf Eldin N**, Liu Q, Jabbari S, Wang L, Franco-Villalobos C, Mahasirimongkol S, Yanai H, Tokunaga K, Yasui Y. Within-Gene Interactions in GWAS Identifies Novel Susceptibility Loci – The WTCCC Data Revisited. Poster Presentation: The 63<sup>rd</sup> Annual Meeting of The American Society of Human Genetics, Boston, Massachusetts, United States, October 2013.

**Sharaf Eldin N**, Yasui Y, Scarfe A, Winget M. Adherence to treatment guidelines in stage II/III Rectal Cancer in Alberta. Poster Presentation: The Manitoba Centre for Health Policy 20th Anniversary Conference, Winnipeg, Manitoba, Canada, March 2010.

**Sharaf Eldin N**, Yasui Y, Scarfe A, Winget M. Adherence to treatment guidelines in stage II/III Rectal Cancer in Alberta. Poster Presentation: Insights'10, School of Public Health, University of Alberta, Nov 2010.

**Sharaf Eldin N**, Hamajima N, Iwata H, Qi Liu, Tajima K, Potter JD, Yasui Y. Breast Cancer Risk by Levels of Epstein - Barr virus Antibody Titers. Poster Presentation: Cohorts and Consortia: From Biotechnology to Populations conference, Banff, AB, Canada, June 2009.

**Sharaf Eldin N**, Hamajima N, Iwata H, Qi Liu, Tajima K, Potter JD, Yasui Y. Breast Cancer Risk by Levels of Epstein - Barr virus Antibody Titers. Poster Presentation: Insights'09, School of Public Health, University of Alberta, Nov 2009.

**Sharaf Eldin N**, Rekecewicz C, Mohamed MK, Fontanet A. Role of Lipids in HCV Clearance Viral Hepatitis. Oral Presentation: ANRS Research Site in Egypt Annual Scientific Meeting, Institut Pasteur, Paris, France, June 2008.

**Sharaf Eldin N**, Rekecewicz C, Mohamed MK, Fontanet A. Epidemiology of acute hepatitis C in Cairo. Oral Presentation: Viral Hepatitis ANRS Research Site Inauguration in Cairo, Cairo, Egypt, June 2007.

**Sharaf Eldin N**, Rekecewicz C, Ismail SA, Mansour H, El-Gafary M, et al. Spontaneous viral clearance in patients with acute hepatitis C in Egypt (ANRS 1213). Poster Presentation: The 12th International Symposium on Viral Hepatitis and Liver Disease, Palais des Congres, Paris, France, July 2006.

**Sharaf Eldin N**, Rekecewicz C, Ismail SA, Mansour H, El-Gafary M, et al Spontaneous viral clearance in patients with acute hepatitis C in Egypt. Oral Presentation: Viral hepatitis Surveillance and Treatment in Egypt Scientific Meeting, Institut Pasteur, Paris, France, June 2006.