

# **Halin Bareke**

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*11 Namik Kemal Street, Villa Firtina Road, Catalkoy, North Cyprus*

## **Education**

**Master of Science, Integrated Immunology** October 2009-September 2010

University of Oxford, UK

Thesis “Assessment of Layered Double Hydroxides as Novel Inorganic Adjuvants”

**Distinction**

**Doctor of Philosophy, Immunology –not completed** September 2008-June 2009

University of Pittsburgh, Pennsylvania, USA

Finished three laboratory rotations and took immunology courses and seminars

**Bachelor of Science, Biology** September 2002-June 2006

Washington and Lee University, Virginia, USA

**GPA:** 3.88/4.00, *Summa cum Laude*

**Exchange Student** September 2004-December 2004

University of St. Andrews, St. Andrews, Scotland, UK

## **Professional Experience**

**Director, Vocational School of Health** September 2015-Present

Girne American University, Kyrenia, North Cyprus

- Improved professional etiquette by representing the School of Health in the University’s executive meetings
- Advanced interpersonal skills while constantly interacting with the students to help them in their academic pursuits
- Enhanced time management skills by constantly having to prioritize various tasks

**Vice Director, Vocational School of Health** September 2014-September 2015

Girne American University, Kyrenia, North Cyprus

- Helping to coordinating eight programs that train healthcare technicians, including radiotherapy technicians and anesthesia technicians
- Acting as a relay between the director and students

**Instructor, Faculty of Health Sciences** February 2014-Present

Girne American University, Kyrenia, North Cyprus

- Delivering General Biology and cell biology lectures to premedical students
- Honed oral and visual presentation skills

## **Molecular Biologist, MSc. Medical Genetics Laboratory**

October 2010-January 2014

Near East University Hospital, Nicosia, North Cyprus

- Conducted molecular microbiological tests such as HPV and HBV detection
- Established protocols and trained co-workers in low resolution HLA typing by PCR
- Worked on a wide range of clinical specimens ranging from smears to sputum

## **Publications**

**Book Chapter:** Chapter 6 Immunology, Clinical Microbiology and Infectious Diseases in Nursing Practice (Turkish), July 2016, ISBN: 978-605-9160-22-3 Hipokrat Yayınevi and Pelikan Yayınevi

**Translation from English to Turkish with Prof. Dr. Ahmet Basustaoglu:** Chapter 8 Innate Host Responses, Medical Microbiology 7<sup>th</sup> Edition, Patrick R. Murray, Ken S. Rosenthal, Michael A. Phaller. ISBN: 978-0-323-08692-9 Elsevier.

Becer, E., G. Mehmetcik, **H. Bareke** and N. Serakinci. Association of leptin receptor gene Q223R polymorphism on lipid profiles in comparison study between obese and non-obese subjects. *Gene*, 529:16-20, (2013).

Marsh, D.M., R.B. Page, T.J. Hanlon, **H. Bareke**, R. Corritone, N.Jetter, N.G. Beckman, K. Gardner, D.E. Seifert and P.R. Cabe. Ecological and genetic evidence that low-order streams inhibit dispersal by red-backed- salamanders (*Plethodon cinereus*). *Canadian Journal of Zoology*, 85:319-327, (2007).

## **Courses Attended during Employment**

Applied Flow Cytometry Course, Erciyes University, Kayseri,	May 2015
Laboratory Diagnosis of Autoimmune Diseases, University of Istanbul	April 2011
HLA Typing by PCR, University of Istanbul, Capa Hospital	Jan 2011-February 2011

## **Research Projects**

**Molecular Bio., Medical Genetics Lab, Near East University Hospital** June 2013-Jan. 2014  
Nicosia, North Cyprus

### **Ocean Sampling Project, The Micro B3 Project**

- As part of the worldwide collaboration to characterize the microbial diversity in the sea, I was responsible for DNA isolation from the water samples collected in North Cyprus

**Molecular Bio., Medical Genetics Lab, Near East University Hospital** March 2012-July 2012  
Nicosia, North Cyprus

**Impact of leptin receptor gene Q223R polymorphism on lipid profiles in obese and non-obese subjects**

- Genotyped obese subjects and non-obese subjects for leptin receptor Q223R mutation by PCR and restriction enzyme digestion to investigate whether there is a correlation between this mutation and levels of various lipids in peripheral blood

**MSc Student, Jon Austyn's Lab, University of Oxford**  
Oxford, UK

April 2010-July 2010

**Assessment of Layered Double Hydroxides as Novel Inorganic Adjuvants**

- Assessed the effects of *in vitro* stimulation by layered double hydroxides (LDHs) on human and mouse dendritic cells (DC) through studying DC maturation by **flow cytometry, cytokine secretion by ELISA and T-cell stimulatory capacity of DCs**
- Conducted preliminary *in vivo* mouse studies by immunizing mice with peptide-pulsed DCs that were stimulated by LDHs in a mouse breast cancer model

**PhD Student, Walter Storkus's Lab, University of Pittsburgh**  
Pittsburgh, PA, USA

March 2009-July 2009

**Rotation Project: *In vitro* Assessment of Cytotoxic T cell Responses against Pericyte Markers in Humans**

- Transduced cultured human dendritic cells by **adenoviral vectors carrying *Tbet***
- Stimulated cytotoxic T lymphocytes via transduced-dendritic cells that were pulsed with pericyte-derived peptides

**PhD Student, Olivera Finn's Lab, University of Pittsburgh**  
Pittsburgh, PA, USA

January 2009-March 2009

**Rotation Project: Analyzing Memory T cell response against Cyclin B1 in healthy individuals with a high risk of developing lung cancer**

- Studied, as a part of a prospective study, the presence of Cyclin B1-specific cytotoxic T lymphocytes in healthy people with a high risk of developing lung cancer by analyzing CD8+ T cell proliferation following *in vitro* stimulation by Cyclin B1 peptide cocktail to evaluate whether such autoreactive T cells can confer a protective immunity against lung cancer

**PhD Student, Kyle McKenna Lab, University of Pittsburgh**  
Pittsburgh, PA, USA

August 2008-December 2008

**Rotation Project: Granzyme B Expression in Antigen Specific CD8+ T cells in Anterior Chamber Associated Immune Deviation**

- Evaluated granzyme B expression in mouse lymph nodes and spleens upon soluble antigen injection into the anterior chamber of the eye by flow cytometry to study granzyme B's role in cytotoxic T cell tolerance induced by the injection

**Visiting Researcher, Hani Gabra's Lab, Imperial College** August 2007-June 2008  
London, UK

- Stimulated cytotoxic T cells isolated from peripheral blood and/or ascites of HLA-A2 positive ovarian epithelial cancer patients by HLA-A2 restricted human telomerase reverse transcriptase (hTERT) epitopes
- Assessed the presence of hTERT-specific cytotoxic T cells by tetramer staining after three rounds of *in vitro* stimulation

**Research Intern, Jim McWhir's Lab, Roslin Institute** June 2005-August 2005  
Scotland, UK

- Compared the growth efficiency of human embryonic stem cells (RH1 and H9 cell lines) under ambient oxygen (21%) and low oxygen environment (2%)

**Research Intern, Paul Cabe's Lab, Washington and Lee University** June 2004-August 2004  
Virginia, USA

- Tested the effect of a second-order stream on genetic differentiation of red-backed salamanders by performing multiplex PCR and consequent gel electrophoresis for microsatellite screening

## **Honors and Awards**

European Union Scholarship III Programme Scholar	2009
Peel Medical Research Award, UK	2007
Cyprus America Scholarship Program Scholar	2002-2006
Washington and Lee University Honor Roll and Dean's List	2002-2006
Global Stewardship Award	2005
Who's Who Among Students in American Colleges and Universities	2005
Paul A. Brower Award for Excellence in Biology	2005
Member of Phi Beta Kappa Society	