

Halin Bareke

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11 Namik Kemal Street, Villa Firtina Road, Catalkoy, Turkish Republic of Northern Cyprus

Education

Master of Science, Integrated Immunology October 2009-September 2010

University of Oxford, UK

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

Distinction

Doctor of Philosophy, Immunology - Incomplete September 2008-June 2009

University of Pittsburgh, Pennsylvania, USA

Completed 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

Teaching Assistant, Department of Health Sciences February 2014-Present

Girne American University, Kyrenia, North Cyprus

- Delivered Introduction to Cell Biology lectures to 5 premedical students
- Held a seminar course on research methods to undergraduate nursing students
- Improved the interpersonal skills by interacting constantly with students while helping with their academic and social problems
- Honed oral and visual presentation skills
- Is part of the academic team responsible for setting up the biomedical research laboratories

Molecular Biologist, MSc. Medical Genetics Laboratory October 2010-January 2014

Near East University Hospital, Nicosia, North Cyprus

- Played an active role in setting up a fully-functional medical genetics laboratory
- Established protocols and trained co-workers in low resolution HLA typing by PCR
- Acted as a laboratory instructor assistant in undergraduate medical biology classes
- Mastered time management skills to deliver patients’ results in a timely manner
- Conducted cancer diagnostic tests such as BCR-ABL fusion mRNA detection

Publications

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)

Research Projects

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

Molecular Bio., Medical Genetics Lab, Near East University Hospital June 2013-January 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 establishing protocols and performing DNA isolation from the water samples collected in North Cyprus

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 March 2009-July 2009
Pittsburgh, PA, USA

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

- Transduced cultured human dendritic cells with adenoviral vectors carrying *Tbet*
- Stimulated cytotoxic T lymphocytes via transduced-dendritic cells that were pulsed with pericyte-derived peptides to assess the feasibility of immunologically targeting the tumor microenvironment through pericytes

PhD Student, Olivera Finn's Lab, University of Pittsburgh January 2009-March 2009
Pittsburgh, PA, USA

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 in order to evaluate whether such autoreactive T cells can confer a protective immunity against lung cancer

PhD Student, Kyle McKenna Lab, University of Pittsburgh August 2008-December 2008
Pittsburgh, PA, USA

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

Courses Attended during Employment

Laboratory Diagnosis of Autoimmune Diseases, University of Istanbul	April 2011
HLA Typing by PCR, University of Istanbul, Capa Hospital	Jan 2011-February 2011

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	

References

1.

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