

# Uzoma K. Iheagwara

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## EDUCATION

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University of Pittsburgh Medical Center, Radiation Oncology Resident	Jun 2016- Present
University of Pittsburgh Medical Center, Transitional Year Intern	Jun 2015- Jun 2016
University of Pittsburgh School of Medicine, Pittsburgh, PA MD	May 2015
PhD, Immunology	Aug 2010-Nov 2013
University of Maryland, Baltimore County (UMBC), Catonsville, MD BS, Biological Sciences	Jun 2004- May 2008
Phillips Academy Andover, Andover, MA Diploma	Sep 2000-Jun 2004

## PUBLICATIONS

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1. Slater RC, **Iheagwara UK**, Chen ML. Radiographical Resolution of Renal Lymphangiomas Following Cardiac Transplantation: a case report. *The Canadian Journal of Urology*
2. **Iheagwara UK**, Beatty PL, Van PT, Ross TM, Minden JS, Finn OJ. 2013. Influenza virus infection elicits antibodies and T cells to host cell antigens previously identified as tumor associated antigens: a new view of cancer immunosurveillance, *Cancer Immunol Res*, 2(3), 263-273
3. **Iheagwara UK**, Beatty PL, Chan S, Rigatti LH, Ross TM, and Finn OJ; Tumor Immunology and Immunotherapy, "Chapter 19: MUC-1 as a therapeutic target in cancer: programming the immune system through childhood infections", Oxford University Press, Oxford, England, 265-280
4. Bosch JJ, **Iheagwara UK**, Reid S, Srivastava MK, Wolf J, Lotem M, Ksander BR, Ostrand-Rosenberg, S. (2010). Uveal melanoma cell-based vaccines express MHC II molecules that traffic via the endocytic and secretory pathways and activate CD8(+) cytotoxic, tumor-specific T cells. *Cancer Immunol Immunother*, 59(1), 103-112.
5. Bosch JJ, Thompson JA, Srivastava MK, **Iheagwara UK**, Murray TG, Lotem, M, Ksander BR, Ostrand-Rosenberg, S. (2007). MHC class II-transduced tumor cells originating in the immune-privileged eye prime and boost CD4(+) T lymphocytes that cross-react with primary and metastatic uveal melanoma cells. *Cancer Res*, 67(9), 4499-4506.
6. Carrithers MD, Chatterjee G, Carrithers LM, Offoha R, **Iheagwara U**, Rahner C, Graham M, Waxman SG. (2009). Regulation of podosome formation in macrophages by a splice variant of the sodium channel SCN8A. *J Biol Chem*, 284(12), 8114-8126.

## WORK EXPERIENCE

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Research Assistant Temple University	Nahum J. Duker, MD, Moses L. Williams, PhD	Summer 2002
Research Assistant Corixa Corporation	Tong Tong Wang, PhD, Moses L. Williams, PhD	Summer 2003
Undergraduate Student Researcher Yale University Dept of Immunology Michael C. Carrithers, MD, PhD		Summer 2005

Undergraduate Student Researcher  
University of Maryland, Baltimore County (UMBC) Dept of Biological Science  
Erica M. Hanson, PhD, Jacobus Bosch, MD, PhD, and Suzanne O. Rosenberg, PhD Sept 2005-May 2008

Graduate Student Researcher Summer 2008  
University of Pittsburgh Depts of Otolaryngology and Immunology  
Robert L. Ferris, MD/PhD

Graduate Student Researcher Aug 2009- Nov 2013  
Dept. of Immunology, University of Pittsburgh  
Olivera J. Finn, PhD

Teaching Assistant Spring 2011 & 2012  
Medical Microbiology, University of Pittsburgh  
Bill F. Goins, PhD

Extra for "The Dark Knight Rises" July 2011  
Pittsburgh, PA Nancy Mosser Casting

#### ABSTRACTS

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1. Bosch JJ, **Iheagwara UK**, Srivastava MK, Murray TG, Lotem M, Ksander BR, and Ostrand-Rosenberg S, MHC class II-transduced tumor cells originating in the immune-privileged eye prime and boost CD4(+) T lymphocytes that cross-react with primary and metastatic uveal melanoma cells, American Association of Cancer Research (AACR) meeting, Los Angeles, CA, 2007 (Abstract+Poster)
2. Bosch JJ, **Iheagwara UK**, Srivastava MK, Murray TG, Lotem M, Ksander BR, and Ostrand-Rosenberg S, Uveal Melanoma Cell-Based Vaccines Activate Tumor-Cytolytic T Lymphocytes, American Association of Cancer Research (AACR) meeting, San Diego, CA, 2008 (Abstract+Poster)
3. **Iheagwara UK**, Bosch JJ, Ksander BR, and Ostrand-Rosenberg S, MHC II Molecules of Invariant Chain Deficient Tumor Cells Traffic Via the Secretory Pathway, American Association of Cancer Research (AACR) meeting, San Diego, CA, 2008 (Abstract+Poster)
4. Bosch JJ, **Iheagwara UK**, Srivastava MK, Murray TG, Lotem M, Ksander BR, and Ostrand-Rosenberg S, Uveal Melanoma Cell-Based Vaccines Activate Tumor-Cytolytic T Lymphocytes, Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, FL, 2008 (Abstract)
5. **Iheagwara UK**, Chan B, Beatty PL, Ross TR, and Finn OJ Exposure to Abnormal Self Antigens during Non-Malignant Events Provide Immunological Defense against Tumors, University of Pittsburgh Cancer Institute (UPCI) Annual Retreat, University of Pittsburgh, Pittsburgh, PA, 2010 (Abstract+Poster)
6. **Iheagwara UK**, Chan B, Beatty PL, Ross TR, and Finn OJ Exposure to Abnormal Self Antigens during Non-Malignant Events Provide Immunological Defense against Tumors, Biomedical Graduate Student Association (BGSA) Symposium, University of Pittsburgh, Pittsburgh, PA, 2010 (Abstract+Poster)
7. **Iheagwara UK**, Chan B, Beatty PL, Ross TR, and Finn OJ Exposure to Abnormal Self Antigens during Non-Malignant Events Provide Immunological Defense against Tumors, American Association of Immunologist (AAI) Annual Meeting, San Francisco, CA, 2011 (Abstract+Poster)
8. **Iheagwara UK**, Chan B, Beatty PL, Ross TR, and Finn OJ Exposure to Abnormal Self Antigens during Non-Malignant Events Provide Immunological Defense against Tumors, Biomedical Graduate Student Association Symposium, University of Pittsburgh, Pittsburgh, PA, 2011 (Abstract+Poster)
9. **Iheagwara UK**, Chan B, Beatty PL, Ross TR, and Finn OJ Exposure to Abnormal Self Antigens during Non-Malignant Events Provide Immunological Defense against Tumors, Science 2011-Next Gen, University of Pittsburgh, Pittsburgh, PA, 2011 (Abstract+Poster)
10. **Iheagwara UK**, Chan B, Beatty PL, Ross TR, and Finn OJ, Exposure to Aberrant Self Antigens during Non-Malignant Events Elicits Immunological Defense against Tumor Progression, University of Pittsburgh Cancer Institute (UPCI) Annual Retreat, University of Pittsburgh, Pittsburgh, PA, 2011 (Abstract+Poster)

11. **Iheagwara UK**, Chan B, Beatty PL, Ross TR, and Finn OJ, Exposure to Aberrant Self Antigens during Non-Malignant Events Elicits Immunological Defense against Tumor Progression, Immunology of Vaccines Symposium, University of Pittsburgh, Pittsburgh, PA, 2011 (Abstract+Poster)
12. **Iheagwara UK**, Minden JS, Beatty PL, Ross TR, and Finn OJ Viral Infection Induces Immune Responses to Many Self-Proteins, Some of Which are Known Tumor Associated Antigens, Biomedical Graduate Student Association (BGSA) Symposium, University of Pittsburgh, Pittsburgh, PA, 2012 (Abstract+ Poster)
13. **Iheagwara UK**, Minden JS, Beatty PL, Ross TR, and Finn OJ Viral Infection Induces Immune Responses to Many Self-Proteins, Some of Which are Known Tumor Associated Antigens, Science 2012:Translation, University of Pittsburgh, Pittsburgh, PA, 2012 (Abstract+Poster)
14. **Iheagwara UK**, Minden JS, Beatty PL, Ross TR, and Finn OJ Viral Infection Induces Immune Responses to Many Self-Proteins, Some of Which are Known Tumor Associated Antigens, American Association of Immunologist (AAI) Annual Meeting, Boston, MA, 2012 (Abstract+Poster+Oral)
15. **Iheagwara UK**, Minden JS, Beatty PL, Ross TR, and Finn OJ Viral Infection Induces Cellular Changes and Immune Responses to Many Self-Proteins, Some of Which are Known Tumor Associated Antigens, Biomedical Graduate Student Association (BGSA) Symposium, University of Pittsburgh, Pittsburgh, PA, 2013 (Abstract+Poster)
16. **Iheagwara UK**, Minden JS, Beatty PL, Ross TR, and Finn OJ Influenza virus infection elicits antibodies and T cells to host cell antigens previously identified as tumor associated antigens: a new view of cancer immunosurveillance, American Association of Immunologist (AAI) Annual Meeting, Honolulu, HI, 2013 (Abstract+Poster+Oral)
17. **Iheagwara UK**, Beatty PL, Van PT, Ross TR, Minden JS and Finn OJ Influenza virus infection elicits antibodies and T cells to host cell antigens previously identified as tumor associated antigens: Science 2013:Convergence, University of Pittsburgh, Pittsburgh, PA, 2013 (Abstract+Poster)

#### PRESENTATIONS & POSTERS

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2007	American Association for Cancer Research (AACR) Los Angeles, CA (Poster)
2008	Meyerhoff Scholarship Program Twentieth Anniversary Research Symposium (Poster)
2008	American Association for Cancer Research (AACR) San Diego, CA (Poster)
2009	American Medical Student Association Regional Conference Philadelphia, PA(Attended)
2011	American Association of Immunologists 98 <sup>th</sup> annual Meeting San Francisco, CA (Poster)
2012	American Association of Immunologists 99 <sup>th</sup> annual Meeting Boston, MA 2012 (Oral + Poster)
2012	UNCF/Merck Fellows Day Blue Bell, PA (Poster)
2013	American Association of Immunologists 100 <sup>th</sup> annual Meeting Honolulu, HI 2012 (Oral + Poster)

#### AWARDS

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2004-08	UMBC Meyerhoff Scholar
2005-06	UMBC Pre-MARC Trainee
2006	ABRCMS best oral presentation (Immunology)
2007, 2008	MARC Distinguished Scholar Award
2007, 2008	MARC Outstanding Commitment to Research
2007	Faculty Award for Excellence in Biological Sciences, UMBC
2007-08	UMBC Undergraduate Research Award (URA)
2007-08	American Association for Cancer Research (AACR) Thomas J. Bardos Awardee
2008	Outstanding Graduating Senior in Biological Sciences, UMBC
2008	<i>Magna Cum Laude</i> , College of the Mathematical and Natural Sciences, UMBC
2011	FASEB-MARC Travel Award, American Association of Immunologist (AAI) Annual Meeting
2011	Best Poster in Immunology, Biomedical Graduate Student Association (BGSA) Symposium
2012	AAI Travel Award, American Association of Immunologist (AAI) Annual Meeting
2012-2014	UNCF/MERCK Graduate Science Research Dissertation Fellowship
2013	AAI Travel Award, American Association of Immunologist (AAI) Annual Meeting
2013	FASEB-MARC Travel Award, American Association of Immunologist (AAI) Annual Meeting
2013	Graduate and Professional Student Government (GPSG) Travel Award
2015	Student National Medical Association (SNMA) Senior Award

## ACTIVITIES & SERVICE

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2009	The Birmingham Free Clinic, South Side, Co-student coordinator
2009	Faculty and Student Together (FAST), student mentor
2010-2013	16 <sup>th</sup> -18 <sup>th</sup> Annual Hoops For A Cure "Ask a scientist" Panel (Nathan S. Arenson Fund)
2012	PittMed 2012 Hippocratean senior yearbook contributor
2012	PittMed Scope & Scalpel 2012, Actor
2012	Annual Biomedical Research Conference for Minority Students, Student Recruiter
2012-2013	AMSA MedSibs Undergraduate Mentorship Program, Medical Student Mentor
2013	Medical Explorers High School Student Program, Medical Student Volunteer
2013-2014	Murmurs Literature and Art Magazine, Contributor
2014	University of Pittsburgh School of Medicine White coat ceremony, White coater
2015-2016	House Staff Council, UPMC Transitional Year Representative
2015-2016	Programming and Education Committee (PEC) UPMC Transitional Year Representative

## TEACHING EXPERIENCE

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Teaching Assistant Medical Microbiology 2011
Teaching Assistant Medical Microbiology 2012
Medical Student-Lijia Cui October 2012

## PROFESSIONAL MEMBERSHIPS

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2004-current	Alumni, Sigma Alpha Epsilon Fraternity
2004-current	Alumni Class Agent, Phillips Academy Andover
2005-08	Member, National Society of Collegiate Scholars (NSCS)
2006-08	Member, Golden Key Honor Society
2006-2008	Member, Phi Kappa Phi National Honor Society
2007-08	Member, Phi Beta Kappa National Honor Society
2007-08	Member, American Association for the Advancement of Science (AAAS)
2008-current	Member, American Medical Student Association (AMSA)
2009-2011	Facilitator, University of Pittsburgh SOM 1 <sup>st</sup> year orientation diversity workshops
2009-10	Treasurer, American Medical Student Association (AMSA), Uni. of Pittsburgh Chapter
2009-10	Co-Student Coordinator, Birmingham Free Clinic South Side
2009-10	Co-Student Coordinator, Physical Medicine & Rehabilitation Interest Group
2009-10	Chair, Welcoming Committee, University of Pittsburgh Medical Scientist Training Program
2009-10	Chair, Social Committee, University of Pittsburgh Medical Scientist Training Program
2010-11	Chair, Hosting Committee, University of Pittsburgh Medical Scientist Training Program
2012-2013	Chair, Interview Committee, University of Pittsburgh Medical Scientist Training Program
2010-11	Mentor, American Medical Association (AMA) MedSibs
2011-current	Head Alumni Class Agent, Phillips Academy Andover
2011-current	Student Caller, Medical Alumni Association, University of Pittsburgh Student Phone-a-thon
2011-2012	Member, Fundraising Committee, Scope and Scalpel Society, PittMed
2011-current	Member, Diversity Committee, University of Pittsburgh Medical Scientist Training Program
2011-2013	Member, Interview Committee, University of Pittsburgh Medical Scientist Training Program
2011-current	Member, American Association of Immunologists
2011-current	Member, Federation of American Societies for Experimental Biology (FASEB)
2011-current	Member, International Union of Immunological Societies (IUIS)
2012	Member, Scope and Scalpel Society Fundraising Committee, University of Pittsburgh SOM
2012	Mentor, UMBC Meyerhoff Scholarship Program
2012	Member, Pittsburgh Urban Magnet Program (PUMP)
2013-current	Student Member, The Association of Underrepresented Minority Fellows (AUMF)

2013-current Student Member, American College of Physicians (ACP)

### COMPLETED RESEARCH SUPPORT

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UNCF/MERCK Graduate Science Research Dissertation Fellowship  
Iheagwara (PI) 09/01/12-08/31/14  
The overall goal of the fellowship is to provide support to African-American graduate students to complete coursework, conduct research, and prepare the dissertation required for a doctoral degree in the biomedically related life or physical science and engineering.

5T32CA082084-13 Finn, Olivera (PI) 09/01/11-08/31/12  
The overall goal of our training program is to train a cadre of young immunologists. PhDs and MD/PhDs. who will make it their mission to understand how to harness the immune system in the fight against cancer  
Role: Trainee

5T32CA082084-12 Finn, Olivera (PI) 09/01/10-08/31/11  
The overall goal of our training program is to train a cadre of young immunologists. PhDs and MD/PhDs. who will make it their mission to understand how to harness the immune system in the fight against cancer  
Role: Trainee

5T32GM008208-21 Wiley, Clayton (PI) 09/01/09-08/31/10  
Continue support of a well integrated basic and clinical sciences pre-doctoral training program.  
Role: Trainee

5T32GM008208-20 Wiley, Clayton (PI) 09/01/08-08/31/09  
Continue support of a well integrated basic and clinical sciences pre-doctoral training program.  
Role: Trainee

5T34GM008663-10 Lindahl, Lasse (PI) 09/01/06-05/31/07  
The primary goal of the MARC U\*STAR Program at UMBC, which began in 1997, is to provide a comprehensive system of financial and educational support to juniors and seniors from historically underrepresented groups to ensure their success in obtaining terminal degrees and entering careers in biomedical research and/or mathematics.  
Role: Trainee

5T34GM008663-11 Lindahl, Lasse (PI) 09/01/07-05/31/08  
The primary goal of the MARC U\*STAR Program at UMBC, which began in 1997, is to provide a comprehensive system of financial and educational support to juniors and seniors from historically underrepresented groups to ensure their success in obtaining terminal degrees and entering careers in biomedical research and/or mathematics.  
Role: Trainee

#### References:

Olivera (Olja) Finn, PhD  
Distinguished Professor, Department of Immunology, University of Pittsburgh School of Medicine.  
Professor, Department of Surgery, University of Pittsburgh School of Medicine.  
University of Pittsburgh  
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Suzanne O. Rosenberg, PhD  
Professor, Department of Biological Sciences  
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Michael C. Carrithers MD, PhD

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University of Wisconsin  
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