

Tiha M Long, PhD

Director of Health Profession Programs

Department of Biological, Physical, and Health Sciences

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Experience and Education:

University of Chicago, Department of Medicine

Research Fellow, *Prostate Cancer Foundation Investigator*

- Mentorship of students and trainees
- Project and laboratory management
- Translational researcher in cancer biology (Resulting in 2 publications and 2 grants awarded)
- Presentations of research at national conferences (Resulting in 1 Award)

University of Maryland Baltimore County

Research Fellow, *National Institutes of Health Cancer Research Fellow*

- Mentorship of students in the Meyerhoff Scholars Program
- Lecturer in the Department of Biology, Guest Lecturer for Graduate Program
- Basic and translational researcher in cancer immunotherapies (Resulting in 3 publications)
- Presentations of research at national conferences (Resulting in 1 Award)

University of Maryland Baltimore, School of Medicine

PhD earned 2014

Doctor of Philosophy

Graduate Program in Molecular Medicine, Cancer Biology Track

- Mentorship of students in Nathan Schnaper Intern Program
- Teaching Assistant for Graduate Program
- Basic Researcher in Cancer Biology and Immunology/Microbiology (Resulting in 3 publications)
- Presentations of research at national conferences

Towson University

BS earned 2009

Bachelor of Science, *Cum laude*

Program in Molecular Biology, Biochemistry & Bioinformatics

- Teaching assistant
- Research experience including presentation at national conference
- Summer internship program in cancer research at University of California San Francisco

Teaching/mentoring experience:

<i>Lecturer</i> , Human Biology Lecture and Laboratory Roosevelt University, Department of Biology, Physical & Health Sciences	2018
<i>Lecturer</i> , Pathophysiology Graduate Course Roosevelt University, College of Pharmacy	2018
<i>Mentor</i> , Medical fellow visiting scholar from The University of Columbia The University of Chicago, Chicago, IL	2017-2018
<i>Mentor</i> , University of Chicago School of Medicine Summer Research Program The University of Chicago, Chicago, IL	2016-2017
<i>Course design and Lecturer</i> , The Human Organism in Health and Disease University of Maryland Baltimore County, Baltimore, MD	2016

<i>Lecturer, Cancer Immunology Graduate Course</i> University of Maryland Baltimore, Baltimore, MD	2015
<i>Mentor, Meyerhoff Scholars Program in Undergraduate Research (3 students)</i> University of Maryland Baltimore County, Baltimore, MD	2015-2016
<i>Mentor, Nathan Schnaper Summer Intern Program in Cancer Research</i> University of Maryland Baltimore, Baltimore, MD	2013
<i>Lab Instructor and Lecturer, Anatomy & Physiology</i> Towson University, Towson, Maryland	2012
<i>Teaching Assistant, GPLS Bioinformatics section</i> University of Maryland Baltimore, Baltimore, MD	2012 – 2013
<i>Teaching Assistant, Molecular Biology Lab</i> Towson University, Towson, Maryland	2009

Service:

<i>Organizer, Urology Discussion Group, monthly journal club, University of Chicago</i>	2016-2017
<i>Reviewer, Journal of Pharmacy and Pharmacology</i>	2017
<i>Committee Chair, Cancer Biology Retreat Organizing Committee, University of Maryland</i>	2015-2016
<i>Treasurer/Organizer, Pride Alliance (Student Govt), University of Maryland</i>	2012-2014
<i>Graduate Program in Life Sciences Liaison, A Bridge to Academic Excellence</i> (Mentoring/tutoring program for Baltimore City public school students) University of Maryland	2012-2014
<i>Steering committee/Treasurer, Molecular biology, biochemistry & bioinformatics (MB3) Club</i> Towson University	2006-2008

Awards:

Awarded 3 rd place Best Talk (out of 120 applicants) SPORE PC Retreat, Ft Lauderdale, FL	2018
Awarded Best Postdoctoral Talk: Annual Cancer Biology Retreat, University of Maryland Baltimore	2016
Cosmic Scholarship Grant Recipient (NSF), Towson University, Baltimore, MD	2008
National Science Foundation, Cancer Research Summer Internship Program University of California San Francisco	2008
National Science and Mathematics Access to Retain Talent (SMART) Grant Recipient (NSF) Towson University, Baltimore, MD	2007, 2008
Dean's list at Towson University, Baltimore, MD	2006-2009

Publications:

1. Romero-Calvo I, Weber C, Ray M, Brown M, **Long TM**, Sparrow S, Roggin K, White K. Human organoids share structural and genetic features with primary pancreatic adenocarcinoma tumors. *Molecular Cancer Research*. *In press*.
2. **Long TM**, Clements V, Figley C, Long RL, Ostrand-Rosenberg S. Leptin driven inflammation promotes myeloid-derived suppressor cells (MDSC) contributing to obesity-associated breast cancer progression. *Journal of Leucocyte Biology*. January 2018.
3. Horne L, **Long TM**, Ostrand-Rosenberg S. A soluble form of CD80 enhances anti-tumor immunity by neutralizing programmed death ligand-1 and costimulating through CD28. *Cancer Immunology Research*. November 2017.
4. **Long TM**, Kach J, Selman P, Tonsing-Carter E, Bacalao M, Lastra R, de Wet L, Comiskey S, Gillard M, VanOpstall C, West D, Chan W, Vander Griend D, Conzen SD, Szmulewitz RZ. Selective glucocorticoid receptor modulators (SGRMs) delay castrate-resistant prostate cancer growth. *Molecular Cancer Therapeutics*. April 2017.
5. Lingaraju A, **Long TM**, Austin JR, Turner JR. Conceptual barriers to understanding physical barriers. *Seminars in Cell and Developmental Biology*. 42: 13-21. May 2015. <http://www.ncbi.nlm.nih.gov/pubmed/26003050>
6. **Long TM**, Nisa S, Donnenberg M, Hassel BA, Type I Interferon and RNase-L mediate protective activity against Enteropathogenic *Escherichia coli* –induced loss of intestinal epithelial cell barrier function. *Infection & Immunity*. 19(6):1295-305, April 2014. <http://www.ncbi.nlm.nih.gov/pubmed/24733098>
7. **Long TM**, Chakrabati A, Ezelle HJ, Brennan SE, Raufman J-P, Polyakova I, Silverman RH, Hassel SBA. RNase-L deficiency exacerbates experimental colitis and colitis-associated cancer. *Inflammatory Bowel Diseases*. 19(6):1295-1305, May 2013. <http://www.ncbi.nlm.nih.gov/pubmed/23567782>.
8. **Long TM**, Raufman, J-P. The diagnostic and prognostic role of cytokines in colon cancer. *Gastrointestinal Cancer: Targets and Therapy*. 2011(1): 27 – 39, April 2011. <http://dx.doi.org/10.2147/GICTT.S18423>.

Selected conference abstracts:

Long TM, Tonsing-Carter E, de Wet L, Chan W, Vander Griend D, Szmulewitz RZ, Conzen SD. Glucocorticoid receptor (GR)-mediated activation of cyclic-adenosine monophosphate (cAMP) pathway gene expression following androgen receptor (AR) antagonism of prostate cancer. AACR Annual Meeting. Chicago. April 2018.

Long TM, Tonsing-Carter E, de Wet L, Chan W, Vander Griend D, Conzen SD, Szmulewitz RZ. Glucocorticoid receptor promotes cAMP/PKA activation in enzalutamide-resistant prostate cancer. SPORE Annual Prostate Cancer Retreat. Ft Lauderdale. March 2018.

Long TM, Tonsing-Carter E, Beuter E, de Wet L, Chan W, Vander Griend D, Conzen SD, Szmulewitz RZ. Glucocorticoid receptor activation regulates both androgen receptor (AR)-consensus and GR-unique cancer-related genes. Prostate Cancer Foundation 24th Annual Scientific Retreat. Washington DC. October 2017.

Long TM, Long RL, Ostrand-Rosenberg S. Leptin drives inflammation which promotes myeloid-derived suppressor cell (MDSC) obesity-associated breast cancer progression. Regulatory Myeloid Suppressor Cells Conference, Philadelphia, PA, June 2016. Also presented as a talk at the University of Maryland Baltimore Cancer Biology Research Retreat, June 2016.

Long TM, Ostrand-Rosenberg S., Myeloid-derived suppressor cells (MDSC) promote weight gain and limit metabolic dysfunction in mice through anti-inflammatory mechanisms. Keystone Obesity and Adipose Tissue Biology, Banff, Alberta, Canada, Feb 2016.

Long TM, Ostrand-Rosenberg S. A soluble form of CD80 inhibits PD-L1 immune suppression and stimulates T cells through CD28-specific pathways indicating potential for increased therapeutic activity. AACR International Cancer Immunotherapy Conference, New York, NY, Sept 2015.

Long TM, Chakrabarti A, Ezelle HJ, Brennan SE, Raufman J-P, Polyakova I, Silverman RH, Hassel BA. RNase-L protects against intestinal inflammation and inhibits carcinogenesis through modulation of immune response and barrier function. American Association for Cancer Research Meeting, Washington D.C., April 2013.

Long TM, Kimball A, Webb TJ, S1P Receptor Signaling modulates NKT cell responses to B cell lymphoma. First Annual Cancer Biology Research Retreat. University of Maryland Baltimore. Baltimore, MD, May 2010.

Research grants:

University of Chicago Cancer Center Pilot Project Glucocorticoid Receptor signaling in prostate cancer cells: Impact on the tumor microenvironment	2017-2018
NCI-Funded SPORE in Prostate Cancer P50 CA 180995 Pilot Project Glucocorticoid Receptor signaling in prostate cancer: Patient tumor study	2017-2018
Prostate Cancer Foundation SPORE Challenge Award, Junior Investigator University of Chicago, Russell Szmulewitz, MD and Suzanne Conzen, MD, Primary Investigators	2017-2018
NIH Postdoctoral T32 Training Grant in Cancer Biology University of Maryland Baltimore, Toni Antalis, PhD, Director	2015-2016
NIH NIDDK T32 Research Training in Gastroenterology University of Maryland Medical Center, Baltimore, MD, Jean-Pierre Raufman, MD, Director	2012-2014
Jess and Mildred Fisher College of Science and Mathematics Grant Recipient Towson University, Towson, Maryland, Larry Wimmers, Ph.D., Faculty Advisor	2007
Towson University Undergraduate Research Grant and Stipend Recipient Towson University, Towson, Maryland, Larry Wimmers, Ph.D., Faculty Advisor	2007

Professional societies:

American Association for Cancer Research	2012-Current
Association for Women in Science	2017-Current