

Curriculum Vitae

Mario Hollomon, Ph.D.

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EDUCATION:

B.S., Biological Sciences, Prairie View A&M University, 1993

M.S., Environmental Toxicology, Texas Southern University, 1997

Ph.D., Environmental Toxicology, Texas Southern University, 2003

POSTDOCTORAL TRAINING:

2005 – 2007 The University of Texas MD Anderson Cancer Center, Department of Immunology
Houston, TX

2007 – 2011 The University of Texas MD Anderson Cancer Center, Department of Pediatrics
Houston, TX

CURRENT APPOINTMENTS:

2014 - Present Assistant Professor, Department of Biology, Texas Southern University, Houston, TX

2012 – Present Contingent Worker (non-compensated), Department of Pediatrics, The
University of Texas MD Anderson Cancer Center, Houston, TX

2002 – Present Adjunct Professor, Department of Math and Natural Sciences, Houston Community College,
Houston, TX

PREVIOUS APPOINTMENTS:

2011 – 2013 Visiting Assistant Professor, Department of Biology, Texas Southern University, Houston, TX

2007 – 2010 Visiting Assistant Professor, Department of Biology, Texas Southern University, Houston, TX

2005 – 2007 Adjunct Professor, Department of Biology, Texas Southern University, Houston, TX

2003 – 2005 Visiting Assistant Professor, Department of Biology, Texas Southern University, Houston, TX

2000 - 2003 Instructor, Department of Biology, Texas Southern University, Houston, TX

1997 - 2000 Graduate Research Assistant, Department of Biology, Texas Southern University, Houston, TX

1996 - 1997 Graduate Research Assistant, Minority Center for Toxicological Research, Texas Southern
University, Houston, TX

1995 - 1996 Graduate Teaching Assistant, Department of Chemistry, Texas Southern University,
Houston, TX

1995 Summer Research Intern, National Oceanic and Atmospheric Association (NOAA), National
Acidic Precipitation Assessment Program (NAPAP), Washington, D.C.

ADMINISTRATIVE RESPONSIBILITIES:

Supervisor, Student Work Study Program, Texas Southern University, 2012-Present

- Assign tasks to assist with department of biology operations.
- Monitor employee work schedule and attendance.

Interim Director, Joint Admission Medical Program (JAMP), Texas Southern University, 2009-2010 (three semesters)

- Coordinated program day-to-day activities.
- Recruited students for JAMP.
- Prepared JAMP budget.
- Supervised JAMP assistant.

Interim Director, Early Medical School Admission Program (EMSAP), Texas Southern University, 2009-2010 (three semesters)

- Partnership with The University of Texas Medical Branch
- Coordinated program day-to-day activities.
- Selected high school seniors to interview for freshman EMSAP slots.
- Recruited students for open EMSAP slots.
- Monitored students' academic progress to ensure that they remained eligible for program.
- Doubled the number of students in the EMSAP program.

Coordinator, Pre-Nursing Program, Department of Biology, Texas Southern University, 2003-2005

- Advised pre-nursing majors.
- Developed pre-nursing curriculum to ensure that students would be prepared to apply to area nursing programs after two years of enrollment at Texas Southern University.
- Organized visits to Texas Southern University from area nursing program representatives.

President, Pre-Alumni Association – Prairie View A&M University, 1989-1990

- Association's inaugural President
- Aim of association was to increase undergraduate participation with alumni activities with the hope of increasing their likelihood of joining the National Alumni Association after their graduation.
- Organized fund raisers and activities.

COMMITTEE INVOLVEMENT:

Member, Student Recruitment and Retention committee, College of Science and Technology, Texas Southern University, 2012-Present

- Identify policies that will increase student recruitment and retention.
- Assist with the development of a program to better acquaint area high schools with the programs offered in the College of Science and Technology.

Member, University General Education subcommittee, Texas Southern University, 2012-Present

- Redesign biology non-majors course to satisfy new state general education core course requirements.

Co-Chair, Undergraduate Assessment committee, Department of Biology, Texas Southern University, 2011-Present

- Develop assessment plan to satisfy SACS requirements.
- Implement assessment plan with the aim of improving the undergraduate biology program.

Member, Student Recruitment and Retention committee, College of Science and Technology, Texas Southern University, 2009-2010

- Participated in discussions and gave suggestions to increase student retention.
- Prepared student survey designed to assess the concerns and needs of students in the College of Science and Technology.

Member, University Faculty Development and Mentoring committee, Texas Southern University, 2008-2009

- Committee was charged with developing programs that promote the development of junior faculty.

Core member, Achieve the Dream, Texas Southern University, 2008-2010

- Supplemental Instruction Team Leader
- Supervised student tutors assigned to biology courses.

Chair, Student Recruitment and Retention committee, College of Science and Technology, Texas Southern University, 2004-2005

- Prepared report to College of Science and Technology dean outlining suggestions to improve recruitment and retention within the college.
- Developed recruitment plan for area high schools.

HONORS AND AWARDS:

- University Academic Scholarship – Prairie View A&M University, 1987
- Premedical Concepts Institute Scholarship –Prairie View A&M University, 1987
- Department of Biology Scholar – Prairie View A&M University, 1992
- EPA Predoctoral Fellowship, \$75,000, 1997-2000
- National Heart, Lung and Blood Institute (NHLBI) traineeship recipient (did not accept), 2001
- Who's Who Among America's Teachers, 2001
- National Heart, Lung and Blood Institute (NHLBI) Postdoctoral Fellowship, 2005
- National Cancer Institute (NCI) Postdoctoral Fellowship, 2007
- Mike Doiron Memorial 19th Annual Legends of Friendswood Education Foundation Award, The University of Texas M. D. Anderson Cancer Center and The Legends of Friendswood Education Foundation, \$7,500, 2008
- National Cancer Institute (NCI) Postdoctoral Fellowship, 2010

RESEARCH SUPPORT:

1. Texas Southern University
University Seed Grant
Hogan (PI) Hollomon (Co-PI), 2003
[grant written by Hollomon]
2. National Heart Lung and Blood Institute (National Institutes of Health)
Research supplement grant 7R01HL070225-03S1 (PI- Su)
Funds awarded to support Postdoctoral studies for Mario Hollomon, Ph.D.
(2005-2007, \$119,596)
[Supplement written by Su]

3. National Cancer Institute (National Institutes of Health)
Research supplement grant 5R01CA042992-22S1 (PI – Kleinerman)
Funds awarded to support Postdoctoral studies for Mario Hollomon, Ph.D.
(2007-2009, \$213,803)
[Supplement written by Hollomon]
4. National Cancer Institute (National Institutes of Health)
Research supplement grant 5R01CA042992-24S1 (PI – Kleinerman)
Funds awarded to support Postdoctoral studies for Mario Hollomon, Ph.D.
(2010-2011, \$92,714)
[Supplement written by Hollomon]
5. Texas Southern University
University Seed Grant
Hollomon (PI), 2013

RESEARCH INTERESTS:

Cancer Biology; Immunology; Autophagy; Cell Death Signaling

PUBLICATIONS:

1. Yu L, Su B, **Hollomon M**, Facchinetti V, Zhou Z, Kleinerman E. *The use of MEKK3 knockout bone marrow cells to demonstrate the essential role of vasculogenesis in Ewing's sarcoma growth.* Cancer Res 2010, 70:1334-1343.
2. Huang G, Yu L, Cooper L, **Hollomon M**, Huls H, Kleinerman E. *Genetically modified T cells targeting interleukin-11 receptor α -chain kill human osteosarcoma cells and induce the regression of established osteosarcoma lung metastases.* Cancer Res 2012, 72(1):271-281.
3. **Hollomon MG**, Gordon N, Santiago-O'Farrill JM, Kleinerman E. *Knockdown of autophagy related-protein 5, ATG5, decreases oxidative stress and has an opposing effect on camptothecin-induced cytotoxicity in osteosarcoma cells.* BMC Cancer 2013, 13:500
4. Player A, Oguamanam T, Okanmelu J, Burrell K, **Hollomon M**. *Preliminary characterization of IL32 in basal-like/triple negative compared to other types of breast cell lines and tissues.* BMC Res Notes 2014, 7:501.

Manuscripts in Preparation

1. **Hollomon M**, Zhou Z, Santiago-O'Farrill JM, Gordon N, Kleinerman E. *Fas-associated protein with Death Domain (FADD) knockdown sensitizes osteosarcoma to TNF-induced cell death.*
2. Patterson-Ward L, Boston T, , Zhou Z, Santiago-O'Farrill JM, Gordon N, **Hollomon M**. *Knockdown of autophagy proteins, ATG5 or LC3, has an opposing effect on anticancer drug treatment in osteosarcoma.*

ABSTRACTS AND POSTER PRESENTATIONS:

1. Mehta, C.S., Sun, P.N., **Hollomon, M.**, Enongene, E. and Mumtaz, M.M. (1996). *Elevation of glial fibrillary acidic protein in rat CNS: 13-week toluene and trichloroethylene oral exposures studies*. National Health and Environmental Effects Research Laboratory (NHEERL) Symposium on Susceptibility and Risk. Durham, N.C.
2. **Hollomon, M.**, Sun, P.N., Mumtaz, M.M. and Mehta, C.S. (1996). *Assessment of GFAP in rat brain after repeated oral toluene exposures*. National Health and Environmental Effects Research Laboratory (NHEERL) Symposium on Susceptibility and Risk. Durham, N.C.
3. **Hollomon, M.** (1998). *Acute oral neurotoxicity and assessment of the biomarker of effect, glial fibrillary acidic protein, in male Sprague-Dawley rats after 1,2-dichloroethane exposure*. EPA Star Fellowship Conference. Washington, D.C.
4. Whitaker, C., Baszile, D., Jejelowo, O. and **Hollomon, M.** (2005). *Impact of oxidative stress and polyunsaturated fatty acids on macrophage cytokine production*. Texas Academy of Science 108th Annual Meeting. The University of Texas – Pan American, TX.
5. Yu, L., Deng, Y., **Hollomon, M.**, Zhou, Z., Su, B. and Kleinerman, E. (2007). *The role of MEKK3 in tumor angiogenesis and vasculogenesis*. The 9th International Symposium on Anti-Angiogenic Agents. San Diego, CA.
6. Stevenson, C., Jejelowo, O. and **Hollomon, M.** (2008). *Impact of oxidative stress, antioxidants, and polyunsaturated fatty acids on mediators associated with asthma*. Texas Academy of Science 111th Annual Meeting. Texas A&M University – Corpus Christi, TX.
7. Williams, B and **Hollomon, M.** (2008). *Influence of antioxidant status in MCF-7 cell line to etoposide treatment*. HBCU-Undergraduate Program, National Research Conference. Atlanta, GA.
8. **Hollomon, M.** and Kleinerman, E. (2008). *9-nitrocamptothecin induces autophagy in DLM8 osteosarcoma cells that is independent of caspase activation*. Cancer Health Disparities Summit. Bethesda, MD.
9. Kim, E., **Hollomon, M.** and Kleinerman, E. (2009). *Effects of poly (ADP-ribose) polymerase (PARP) inhibitors, 3-aminobenzamide and PJ-34, on the antitumor activity of 9-nitrocamptothecin on osteosarcoma cells*. Undergraduate Summer Research Experience, Rice University, Houston, TX.
10. Gordon N, M.D., **Hollomon M, Ph.D.**, Chien HC, Santiago O’Farrill JM, Kleinerman E, M.D. (2013). *The microenvironment plays an important role in the ability of aerosol gemcitabine and liposomal 9-nitrocamptothecin to elicit therapeutic effect on osteosarcoma*. Global Biotechnology Congress, Boston, MA.
11. Santiago O’Farrill, JM, **Hollomon, M**, Kleinerman, E.S., Gordon, N. (2013). *Autophagy as a mechanism implicated in osteosarcoma resistance to Gemcitabine*. AACR-NCI-EORTC, Boston, MA.
12. Santiago O’Farrill, JM, **Hollomon, M**, Kleinerman, E.S., Gordon, N. (2014). *The role of autophagy on Gemcitabine-induced cytotoxicity in osteosarcoma*. Keystone Symposia. Autophagy: Fundamentals to disease.

13. Santiago O’Farrill, JM, **Hollomon, M**, Kleinerman, E.S., Gordon, N. (2015). *HSP27 as a potential regulator of Gemcitabine-induced autophagy in osteosarcoma cells*. ASPHO 2015 Annual Meeting, Phoenix, AZ.

ORAL PRESENTATIONS:

1. Department of Pediatrics, The University of Texas MD Anderson Cancer Center, “9-nitrocamptothecin-induced Autophagy in Osteosarcoma Cells” March 18, 2008
2. Autophagy in Health and Disease: A Workshop on Cross-Disciplinary Issues, The University of Texas Medical School at Houston, “Camptothecin-induced Autophagy” November 14, 2008
3. Department of Cancer Biology Seminar Series, The University of Texas MD Anderson Cancer Center, “9-nitrocamptothecin-induced Autophagy in Osteosarcoma Cells” January 21, 2009
4. Department of Pediatrics, The University of Texas MD Anderson Cancer Center, “Autophagy Induction in Osteosarcoma” May 12, 2009
5. Department of Pediatrics, The University of Texas MD Anderson Cancer Center, “Drug-induced Autophagy in Osteosarcoma” March 9, 2010

TEACHING EXPERIENCE:

- General Biology lecture and laboratory
- Biology for non-majors lecture and laboratory
- Human Anatomy and Physiology lecture and laboratory
- Immunology lecture and laboratory
- Human Physiology laboratory

PROFESSIONAL DEVELOPMENT:

- Student Success Institute, Pacific Crest, Texas Southern University (2013)
- Presidential Initiative: Academic Advising Professional Development, The Teaching and Learning Excellence Center (TLEC), Texas Southern University (2012)

STUDENT ORGANIZATION ADVISEMENT:

- Texas Southern University Pre-Nursing Association – primary advisor (2013 - present)
- Health Occupations Students of America (HOSA) – primary advisor (2011 - 2013)
- School-to-School – primary advisor (2012 - 2013)

PEER REVIEW ACTIVITY:

- *Discovery Biology* by Singh-Cundy and Cain, 6ed, 2015
- *Autophagy Journal* (Landes Bioscience Journals) 2012
- *Concepts In Biology* by Enger/Ross/Bailey, 12ed, 2007
- *The Living World* by Johnson, 5ed, 2006

PROFESSIONAL MEMBERSHIPS:

- American College of Toxicology (ACT)
- Beta Kappa Chi National Scientific Honor Society
- Society of Environmental Toxicology and Chemistry (SETAC)
- National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE)

CERTIFICATIONS/TRAINING:

- Small animal handling
- Employment Law & Practices
- Radiation Safety Training
- Safety in a Laboratory Environment
- Virus Safety Training

OTHER QUALIFICATIONS:

- Fifteen years of collegiate-level instruction experience
- Twenty-two biology graduate level hours - meets SACS accreditation requirements
- Research proposal development and submission to funding agencies
- Undergraduate and graduate research supervision
- Effective management of classes ranging from five to two hundred students
- Continued favorable student evaluations
- Student recruitment and retention activities
- Curriculum development
- Tutorial program supervision
- Extensive student advising and mentoring
- Microsoft Office, Photoshop, GraphPad, Blackboard

REFERENCES: Available upon request