Mario G. Hollomon, Ph.D.

Texas Southern University
Department of Biology
3100 Cleburne Avenue
Houston, TX 77004
(713) 313-7784
Hollomon_mg@tsu.edu

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.

Publications:

Peer –reviewed Journal Articles:

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. Santiago-O'Farrill JM, Patterson-Ward L, Gordon N, Zhou Z, Kleinerman E, **Hollomon M**. Knockdown of *Fas-associated protein with Death Domain (FADD) sensitizes osteosarcoma to TNF-induced cell death.* [Corrections currently being made for final acceptance]
2. Patterson-Ward L, Boston T, Gordon N, **Hollomon M.** *Knockdown of autophagy proteins, ATG5 or LC3, has an opposing effect on anticancer drug treatment in mutant Ras-transformed osteosarcoma.*

Abstracts:

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-nitorcamptothecin 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. Austin, TX.
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.
14. Santiago O'Farrill, JM, Hollomon, M, Kleinerman, E.S., Gordon, N. (2015). *HSP27 as a* potential *factor to determine the fate of Gemcitabine- induced autophagy in osteosarcoma: Survival vs. death*. AACR 106th meeting, Philadelphia, PA.

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

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 7R011HL070225-03S1 (PI- Su) - supplement written by Su
   Funds awarded to support Postdoctoral studies for Mario Hollomon, Ph.D., 2005 – 2007 ($119,596)
3. National Cancer Institute (National Institutes of Health)
   Research supplement grant 5R01CA042992-22S1 (PI – Kleinerman) – supplement written by Hollomon
   Funds awarded to support Postdoctoral studies for Mario Hollomon, Ph.D., 2007 – 2009 ($213,803)
4. National Cancer Institute (National Institutes of Health)
   Research supplement grant 5R01CA042992-24S1 (PI – Kleinerman) – supplement written by Hollomon
   Funds awarded to support Postdoctoral studies for Mario Hollomon, Ph.D., 2010 – 2011 ($92,714)
5. Texas Southern University, University Seed Grant, Hollomon (PI), 2013 ($10,000)
6. Texas Southern University, RCMI Pilot Research Program, Hollomon (PI), 2015 – 2016 ($30,000)

Graduate Students:

Mentees:

Latnisha Patterson, M.S. Biology, May 2016

Inhibition of ATG5 or LC3 autophagy proteins results in opposing effects of camptothecin and gemcitabine-induced cell death in metastatic K-Ras transformed Krib osteosarcoma cells

Committee Member:

Jordan Pope, M.S. Biology, Fall 2015
Jihad Asad, M.S. Biology, Spring 2016
Kayla Burrell, M.S. Biology, Spring 2016
Anthony J. Harris, Jr., M.S. Biology, Summer 2017

Courses Taught:

Non-majors:

Survey of Life Sciences (Texas Common Course Numbering System: BIOL 1308)

Biology majors:

Biological Sciences I (lecture and laboratory)
Biological Sciences II (lecture and laboratory)
Human Anatomy and Physiology (lecture and laboratory)
Immunology
Undergraduate Research
Graduate Research Problems I
Graduate Research Problems II

Service and Committee Involvement (Texas Southern University):

- Member, University Facilities Committee, 2015 - present
- Faculty Senator, College of Science, Engineering and Technology, 2015 – 2017
- Member, Student Recruitment and Retention committee, College of Science and Technology, 2012-Present
- Chair, Undergraduate Assessment committee, Department of Biology, 2011-present
- Member, Search Committee for TSU Executive Director/Police Chief of Public Safety position, 2016
- Member, University General Education subcommittee, 2012-2016
- Member, Student Recruitment and Retention committee, College of Science and Technology, 2009-2010
- Member, University Faculty Development and Mentoring committee, Texas Southern University, 2008-2009
- Core member, Achieve the Dream, 2008-2010
- Chair, Student Recruitment and Retention committee, College of Science and Technology, 2004-2005

Administrative Experience:

- Supervisor, Student Work Study Program, Texas Southern University, 2012-Present
- Coordinator, Pre-Nursing Program, Department of Biology, Texas Southern University, 2012-Present
- Interim Director, Joint Admission Medical Program (JAMP), Texas Southern University, 2009-2010 (three semesters)
- Interim Director, Early Medical School Admission Program (EMSAP), Texas Southern University, 2009-2010 (three semesters)
- Coordinator, Pre-Nursing Program, Department of Biology, Texas Southern University, 2003-2005
- President, Pre-Alumni Association, Prairie View A&M University, 1989-1990

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

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)

Review Activity:

- Tumor Biology (SAGE publishing), 2017
- International Journal of Molecular Sciences (Multidisciplinary Digital Publishing Institute), 2017
- OncoTargets and Therapy (Dove Medical Press Ltd), 2016
- PLOS ONE (Plos One), 2015
- *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

Other Qualifications:

- Twenty 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 are available upon request