

Curriculum Vitae

Lyndon L. Lyons, Ph.D.

Present Title and Affiliation:

2024 – Present	University of North Texas at Dallas Natural Science Adjunct Professor
2019 – Present	Houston Community College Biology Adjunct Professor
2018 – 4/2023	Fortis Institute Professor
2017 -2017	US Pain & Spine Hospital Clinical Lab Assistant Laboratory Director
2014 - 2017	Houston Community College District Upward Bound Program Instructor

Education:

2023 American Heart Association
Instructor: BLS, ACLS, BSL & PALS Certifications

2022 The Core Elements of Project Management in Public Health

2022 Faculty Mentor: Quality Control Fall Prevention Project by Wanda Williams, MSN, RN

2015 **Principles of Clinical Toxicology Certification Program 2015**

American Association for Clinical Chemistry “AACC”

2105 **Using Tandem Mass Spectrometry in the Clinical Laboratory Certificate Program 2015**
American Association for Clinical Chemistry “AACC”

2011 Texas Southern University, **Ph.D. Environmental Toxicology**
Houston, TX
Dissertation title: *Study of In Vivo Exposure of Single-Walled Carbon Nanotubes in Mouse Liver*

2008 Texas Southern University, **M.S. Biological Sciences**

Houston, TX
 Thesis title: *Molecular Target of Dietary Agent in Prostate Cancer*
 2003 Texas Southern University, **B.S. Biological Sciences**
 Houston, TX
 1989 El Centro College, (Associate of Applied Arts and Science) **Computer Center Specialist**
 Dallas, TX

Previous Appointments:

2010 - 2011	Department of Biology & Chemistry Texas Southern University	Graduate Research Assistant
2009 - 2010	NASA/C-BER Fellowship Program Texas Southern University	Graduate Fellow
2008 (summer)	NASA Research Center for Biotechnology and Environmental Health, Ames Research Center Moffett Field, CA.	Research Intern
2003 - 2008	Department of Biology Texas Southern University	Graduate Teaching Assistant

Memberships:

- American College of Toxicology (ACT)
- Society of Environmental Toxicology and Chemistry (SETAC)
- The National Scholars Honor Society
- Tri-Beta Biological Honor Society
- Kappa Psi Pharmaceutical Fraternity

Honors and Awards:

- Missouri City Chapter, STEM-ulation Program
 - Aim of association was to stimulate cogitative thinking for young scientist and to conduct research in the Department of Chemistry/Biology.
 - Research conducted on the role of Single Walled Carbon Nanotubes on mouse liver cells.
 - Research conducted on the role of apoptosis, capasase and oxidative stress on liver cells.
- NASA/C-BER Graduate Intern Program (2001)
 - Six- Month award to conduct research on E coli and Heat Shock Response.
- The National Scholars Honor Society
- NASA Fellowship Program Predoctoral Fellow (2008-2010)
 - Two-year award to support Predoctoral Fellow - \$26,000/yr □ Department of Biology Scholar – Texas Southern University (2002)
- Tri-Beta Honor Society – Texas Southern University (2000-2003)
 - Aim of association was to increase undergraduate participation with alumni activities with the hope of increasing their likelihood of joining the National Honor Society during and after their graduation.
 - Organized fund raisers and activities to increase undergraduate interest and involvement in the National Honor Society.
- University Academic Scholarship – Texas Southern University (2001)

Administrative Responsibilities/Committee Involvement:

- Member, Student Recruitment and Retention, College of Science and Technology, TSU, 2009 - 2011
 - 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, Student Development and Mentoring committee, University Committee, TSU, 2008-2009
 - Charged with developing programs that promote the development of junior faculty.
- Core member, Achieve the Dream, TSU, 2008-2010.
 - Supplemental Instruction Team Leader
 - Supervised student tutors assigned to biology/chemistry courses.
- Chair, Student Recruitment and Retention, College of Science and Technology, TSU, 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.
- Coordinator Assistant, Pre-Nursing Program, Department of Biology, TSU, 2003 – 2005
 - Advised pre-nursing majors.
 - Developed pre-nursing curriculum development to ensure that students would be prepared to apply to area nursing programs after two years of enrollment at TSU.
 - Organized visits to TSU from area nursing program representatives.

Publications (Journal Articles):

- **Lyndon L. Lyons**, Renard Thomas, and Bobby L. Wilson, (2011) *Study of In Vivo Exposure of Single-Walled Carbon Nanotubes in Mouse Liver* Department of Chemistry, Texas Southern University, Houston, TX -77004 USA

Abstracts/Poster Presentations:

- **Lyndon L. Lyons** (2011) *Study of In Vivo Exposure of Single-Walled Carbon Nanotubes in Mouse Liver* [poster presentation] [Abstract]. San Jose CA.
- **Lyndon L. Lyons**. (2008) *Impact of oxidative stress, antioxidants, and polyunsaturated fatty acids on mediators associated with asthma*. [Abstract]. Texas Academy of Science 112th Annual Meeting. Texas A&M University – Junction, TX.

Oral Presentations:

- 2011 NASA Ames STEMS Symposium, Ames Research Center: Moffett Field, CA.
- Texas Academy of Science, March 2009
Llano River Field Station, Texas Tech University Junction, Texas

Conferences Attended:

- Gulf Coast Society of Toxicology Meeting. (2004)
 - Center for Cancer Immunology Meeting. (2005)
 - Society of Toxicology Annual Meeting. (2006)
 - Frontiers in Cancer Prevention Research Conference (2007)
 - Cancer Health Disparities Summit. (2008)
 - Sarcoma Retreat. (2008)
 - Achieve the Dream (AtD). (2009)
 - Minority Health Professions Meeting. (2010)
 - Gulf Coast Society of Toxicology Meeting. (2011)
 - NASA Ames Research Conference. (2011)
- Houston, TX**
Galveston, TX
San Diego, CA
Philadelphia, PA
Bethesda, MD
Houston, TX
San Francisco, CA
Houston, TX
New Orleans, LA
San Jacinto, CA

Other Related Qualifications:

- 15 + years of collegiate-level instruction experience (five years as a graduate teaching assistant).
- Twenty-two biology graduate level hours - meets SACS accreditation requirements.
- Experience teaching graduate-level biology/chemistry courses.
- Previous teaching experience in anatomy and physiology.
- Effective management of classes ranging from five to nearly two hundred students.
- Continued satisfactory student evaluations.
- Experience with student recruitment and retention activities.
- Ten + years of Blackboard/Canvas online learning experiences.

Research Interest Keywords:

Cancer Biology, Immunology, Autophagy, Cell Death Signaling, Microgravity Simulator and Nanotechnology.

- Animal care and genotyping
 - Experimental design
 - Immunofluorescence staining
 - Polymerase Chain Reaction (PCR)
 - Bacterial transformation
 - Primary cell line generation
 - General animal handling and dissection
 - Numerous other standard laboratory techniques
 - HPLC/Raman spectroscopy
 - Microgravity Simulator “rotating wall vessel bioreactor” (E. coli)
 - Molecular Cloning
 - Nose-only Inhalation
 - Flow Cytometry

Other Capabilities:

- Undergraduate and graduate research mentorship
- Capable of working independently and as a team member within the company.
- Research proposal development.
- Coordinate research analysis; provide assessment and recommendations based on test results.

- Collaborate with team of scientist, non-scientist in the development of toxicology in the emerging science. □ Coordinate research analysis; provide assessment and recommendations based on test results.
- Collaborate with team of scientist, non-scientist in the development of toxicology in the emerging science.
- Currently in the pursuit of the DABT Certification.