0 TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Adeyemi Anthony Olanrewaju Title: Assistant Professor

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
Ph.D.	2022	George Mason University	Microbiology & Infectious Diseases	Mechanisms of Exosome-Autophagy Interplay in Host Response to the Cytoplasmic RNA Virus (Rift Valley Fever Virus) and Development of Promising Countermeasure Approaches
M.Sc.	2017	Western Illinois University	Microbiology	Detection of Thermophilic Fungi in Corn-Based Food Produced in Illinois
BMLS	2011	Ladoke Akintola University of Technology, Nigeria	Medical Laboratory Science	Microbial contamination of locally produced cheese and determination of their antimicrobial potential in Nigeria

C. University Experience

Position	*University*	*Dates*
Assistant Professor	Texas State University	September 2023 – Present
Graduate Teaching Assistant	George Mason University	August 2018 – May 2022

D. Relevant Professional Experience

Position	*Entity*	*Dates*
Medical Immunology Scientist II	Quest Diagnostics Chantilly, VA	August 2022 – August 2023
Medical Laboratory Scientist	George Mason University Manassas, VA	December 2020 – May 2022
Supervisor and Medical Laboratory Scientist	Unity Point Health Hospital-Quad Cities Moline, IL	August 2017 – August 2018
Senior Research Assistant	Fungal Ecology Laboratory Western Illinois University	August 2015 – August 2017

D. Relevant Professional Experience - Continued

Position	*Entity*	*Dates*
Head of Medical Microbiology Laboratory	St. Mary Catholic Hospital Oyo, Nigeria	May 2015 – August 2015
Chief Intern – Medical Laboratory Scientist	Ogun State Hospital Sango Ota, Ogun State, Nigeria	May 2012 – February 2014

E. Other Professional Credentials (licensure, certification, etc.)

International Medical Laboratory Scientist (IMLS) Certification granted by The American Society of Clinical Pathologists (ASCP) in August of 2017, Recertified in 2020, and 2023. Expires August 2026.

BSL-3 Biosafety Laboratory 3 Certification from 12/2018 to present.

II. TEACHING

A. Teaching Honors and Awards:

Elaine Joyce Outstanding Biology Graduate Student Teaching Assistant Award, George Mason University, 05/2021

B. Courses Taught:

Texas State University – San Marcos, Texas – Medical Laboratory Science Program

MLS 3305 – Introduction to Clinical Laboratory Techniques - Lecture	2023 – Present
MLS 3410 – Clinical Chemistry I – Lecture/Lab	2023 – Present
MLS 3323 – Clinical Microscopy & Analysis of Body Fluids – Lecture/Lab	2024 – Present
MLS 4370 – Clinical Chemistry II – Lecture/Lab	2024 – Present
HS 1310 – Introduction to Health Professions	2024 – Present
MLS 3305 – Introduction to Clinical Laboratory Techniques - Lecture	2024 – Present
MLS 3304 – Introduction to Clinical Laboratory Techniques -Online Lecture	2026 – Present

George Mason University – Manassa, VA – Department of Biology

Graduate Teaching Assistant– Microbiology Laboratory Sections	2018 – 2022

C. Courses Prepared and Curriculum Development:

Introduction to Clinical Laboratory Techniques, MLS 3305, Restructured and Updated Existing Course, Texas State University, Medical Laboratory Science Program, Fall 2023 – present.

Clinical Microscopy & Analysis of Body Fluids, MLS 3323, Restructured and Updated Existing Course, Texas State University, Medical Laboratory Science Program, Spring 2024 – present.

Clinical Chemistry I, MLS 3410, Restructured and Updated Existing Course, Texas State University, Medical Laboratory Science Program, Fall 2023 – present.

Clinical Chemistry II, MLS 4370, Restructured and Updated Existing Course, Texas State University, Medical Laboratory Science Program, Fall 2023 – present.

D. Directed Student Learning:

- Master's thesis committee member for Ross Omari in the department of Biology at Texas State University. (2024)
- Research mentor to four medical laboratory undergraduate students (Skyler Ramdeen, Ndoese Usoro, Kathryn Giordano and Patricia Garza)

E. Other:

1. Continuing Education Coursework:

Scholarship and Teaching Excellence Program (STEP), Texas State University, 3h, November 10, 2023

Scholarship and Teaching Excellence Program (STEP), Texas State University, 3h, October 13, 2023

Scholarship and Teaching Excellence Program (STEP), Texas State University, 3h, September 22, 2023

New Faculty Orientation, Texas State University, August 15, 2023

Teaching online in Texas State. Online self-paced module, April 2025

III. SCHOLARLY/CREATIVE

1. Articles:

a. Refereed Journal Articles:

Alem, F., **Olanrewaju, A. A.,** Omole, S., Hobbs, H. E., Ahsan, N., Matulis, G., Brantner, C. A., Zhou, W., Petricoin, E. F., Liotta, L. A., Caputi, M., Bavari, S., Wu, Y., Kashanchi, F., & Hakami, R. M. (2021) Exosomes originating from infection with the cytoplasmic single-stranded RNA virus Rift Valley fever virus (RVFV) protect recipient cells by inducing RIG-I mediated IFN-B response that leads to activation of autophagy. *Cell & Bioscience,* **11**, 220. https://doi.org/10.1186/s13578-021-00732-z

Hetrick, B., Dongyang, Y., **Olanrewaju, A. A.**, Chilin, L.D., He, S., Debbagh, D., Ma Y.-C., Hofmann, L.A., Hakami, R. M., & Wu, Y. (2021) A traditional medicine,

Respiratory Detox Shot (RDS), inhibits the infection of SARS-CoV, SARS-CoV-2, and the Influenza A virus in vitro. *Cell & Bioscience,* **10**, 100. https://doi.org/10.1186/s13578-021-00609-1

Olanrewaju, A. A., & Hakami, R. M. (2020) The messenger apps of the cell: Extracellular vesicles as regulatory messengers of microglial function in the CNS. *Journal of Neuroimmune Pharmacology*, 15, 473-486. https://doi.org/10.1007/s11481-020-09916-9

Ogbolu, D. O., Alli, T., Oluremi, A. S., & **Olanrewaju, A. A.**, (2014). Microbial contamination of locally produced cheese and determination of their antimicrobial potential in Nigeria. *African Journal of Clinical and Experimental Microbiology*, 15(2): 76-83. http://dx.doi.org/10.4314/ajcem.v15i2.4

Olanrewaju A.A (2024). Exploring Exosomes as a Diagnostics Platform for Infectious Disease. Invited monthly columnist for "Under the Microscope"- Healthcare Hygiene Magazine. *Healthcare Hygiene Magazine*, *6*(12), 8. Retrieved from https://joom.ag/BC7d/p8

Adeyemi A Olanrewaju*, John E. Lee Sang, Nathalie L Austin, and Autumn N Vela. Extremely Elevated Coagulation Parameters in A Patient with End-Stage Renal Disease on Coumadin: A Case Report. Curr Tr Clin & Med Sci. 4(2): 2025. CTCMS.MS.ID.000582.

Olanrewaju, A.A., Ramdeen S., Usoro N., Giordano K., Garza P., Esan, T.O., Quadri O., Discovery of potential antiviral compounds against Dengue virus using virtual screening and physicochemical profiling from zinc database (Accepted for publication)

b. Published Abstract

Adeyemi Olanrewaju, Rodney Rohde, Skyler Ramdeen, Ndoese Usoro, Kathryn Giordano, Patricia Garza, Taiwo Esan, 291 Discovery of potential vaccine-like compounds against dengue protease of dengue virus using virtual screening and physicochemical profiling from ZINC database, American Journal of Clinical Pathology, Volume 164, Issue Supplement_1, November 2025, aqaf121.341, https://doi.org/10.1093/ajcp/aqaf121.341

A. Works in Print

a. **Olanrewaju, A.A.,** Vela, M.A., Chimeric Antigen Receptor (CAR) T-Cell Therapy in Patients with Relapsed/Refractory Multiple Myeloma: Efficacy, Challenges, and Future Directions. (Submitted for publication and awaiting review).

b. **Olanrewaju, A.A.,** Ramdeen S., Usoro N., Giordano K., Garza P., Esan, T.O., Quadri O., Discovery of potential antiviral compounds against dengue virus using virtual screening and physicochemical profiling from ZINC database (Submitted for publication and awaiting review).

c. **Olanrewaju, A.A.,** Ramdeen S., Usoro N., Giordano K., Garza P., Esan, T.O., Quadri O., Isolation and Characterization of Exosomes Purified from Dengue

Virus type 2 (DENV-2) infected Mammalian Cells (Submitted for publication and awaiting review).

d. Gerardo J Pacheco, Thomas Patterson, **Adeyemi Olanrewaju**, Paula Stigler Granados, Chagas disease testing validation. (In preparation)

2. Invited Talks, Lectures, Presentations:
   - Presented Research Activities at Annual Meeting of the Illinois State Academy of Science (ISAS) 2015-2018
   - Invited guest speaker by Redeemed student fellowship at Western Illinois University to give talk on success from a professor's perspective.

3. Other: **Awards**
   - College of health professions 2025 Presidential distinction for Excellence in Teaching
   - College of health professions 2025 Presidential distinction for Excellence in Scholarly/Creative Activity
   - College of health professions 2025 Presidential distinction for Excellence in Service
   - School of Systems Biology PhD impact award (04/2022)
   - Elaine Joyce outstanding Biology Graduate Student Teaching Assistant Award (05/2021)
   - OLLI Mason Scholarship (06/2021)
   - School of systems biology summer research fellowship (05/2019)
   - Provost award at George Mason University (08/2018)
   - First place award recipient for oral presentation in microbiology at the 109th conference of Illinois state Academy of Science (03/2017)
   - Western Illinois University Biological Science summer research scholarship fund recipient (For outstanding progress in master's thesis research) (05/2016)
   - Western Illinois university international student scholarship recipient (01/2017)
   - RISE (Research Inspiring Student Excellence) @ WIU graduate purple award (05/2016)

B. Oral and poster presentations
   - Discovery of novel vaccine/therapeutics against Dengue virus. American Society for clinical pathology (ASCP) national conference. **(November 2025)**
   - Discovery of novel vaccine/therapeutics against Dengue virus. Translational Health Research, Health Scholar Showcase poster presentation (**April 2025)**
   - Discovery of novel vaccine/therapeutics against Dengue virus. College of Health Professions Research Forum poster presentation (**April 2025**)
   - Discovery of novel vaccine/therapeutics against Dengue virus. Texas Association of Clinical Laboratory Science (TACLS) (**April 2025**)
   - Discovery of novel vaccine/therapeutics against Dengue virus. STEM conference, Texas State University (**March 2025**)
   - The potential use of exosomes for diagnosis and therapeutics. College of Health Professions Research Forum poster presentation (**April 2025**)

- The potential use of exosomes for diagnosis and therapeutics. Texas Association of Clinical Laboratory Science (TACLS) (**April 2025**)
- Screening of potential antiviral compounds- Assessing efficacy against dengue virus. Translational Health Research, Health Scholar Showcase poster presentation (**March 2024)**
- Screening of potential antiviral compounds- Assessing efficacy against dengue virus. College of Health Professions Research Forum poster presentation (**April 2024**)

C. Scholarly / Creative Grants and Contracts:

4. **Funded, non-funded and under review Internal/ External Grants and Contracts:**

- PI: Dr. Olanrewaju, Adeyemi Anthony. (2023). Research Start-Up Funds, Texas State University, $16.000 Summer 2024 Salary.
- PI: Dr. Olanrewaju, Adeyemi Anthony. (2023). Research Start-Up Funds, Texas State University, $19,300 Research Maintenance & Operations (M&O) funds.
- PI: Dr. Olanrewaju Adeyemi Anthony. (2023). Bioss Antibody Holiday research grant, $750 for purchase of antibody for research.
- PI: Dr. Olanrewaju Adeyemi Anthony. **(2024)**. American Society for Clinical Laboratory Science research grant, $5,000. (Funded)
- PI: Dr. Olanrewaju Adeyemi Anthony. **(2024)**. Gen Script life science research grant, $30,000- (Not funded)
- PI: Dr. Cesar A. Rosales-Nieto, Co-PI: Dr. Rodolfo Cardoso, Dr. Yuan Lu, **Dr. Adeyemi Olanrewaju,** Mr. Brian Bruner. **(2024)**. FDA grant. Bee pollen Supplementation in Late Gestation: Effects on Lactogenesis and Offspring Survival in Goats. $300,000 (Not funded)
- PI: Dr. Olanrewaju Adeyemi Anthony. (**2024**). Bioss back to school research grant, $1000 for purchase of antibody for research. (Not funded)
- PI: Dr. Olanrewaju Adeyemi Anthony. (**2024**). Discovery of novel vaccine/therapeutics against dengue virus. Research Enhancement Program (REP) grant. (**2024**). $8,000. (Funded).
- PI: Dr. Cesar A. Rosales-Nieto, Co-PI: **Dr. Adeyemi Olanrewaju,** USDA grant. From Hive to Herd: Eco-Friendly Control of H. contortus Using Bee Pollen Bioactives. $282,884 (Under review)

5. Conference attendance:
   - American Society for Clinical Laboratory Science CLEC conference. Atlanta, Mar 5th - 8th, **2025.**
   - American Society for Clinical Laboratory Science CLEC conference. Las Vagas, Feb 22nd - 24th, **2024.**
   - Translational Health Research Conference Health Research Showcase. Texas State University, March 1st, **2024**.
   - College of Health Professions Research Training Program. Round Rock, Sept 20th- 21st, **2024**.
   - STEM conference. Texas State University, April 19th, **2024**.

IV. SERVICE

A. Institutional

1. University:
   Member, College Research Enhancement Committee (CREC) 2023-2024

2. College:
   Member, Faculty/Student Research Forum Committee 2023-2024

3. Department/Program/School:
   Member, Interview Committee for Applicants to Medical Laboratory Science Program 2024
   Participant, Bobcat Days Representing the Medical Laboratory Science Program to prospective Texas State University students 2023-2024
   Participant, Bobcat Days Representing the Medical Laboratory Science Program to prospective Texas State University students 2024-2025

C. Community:

- Reviewer for Cell Communication and Signaling journal (current)
- Reviewer for Current Issue in Molecular Biology (CIMB) journal (current)
- Orise grant reviewer for Florida Department of Health Biomedical Research Program **(2024-2025)**
- Book chapter reviewer for FA Davis (*Molecular Diagnostics: Fundamentals, Methods and Clinical Applications* for its fourth edition)- **2024**
- **2024** TXST Stem Conference Judge
- Volunteer judge for Fairfax high school science fair competition (01/2020)
- Mentor-student reviewer for Frontier in Pharmacology journal
- Mentor-student reviewer for Cells journal
- Mentor-student reviewer for Viruses journal
- Volunteer Judge for Fairfax County elementary and middle school science and engineering fair competition (02/2019)
- Undergraduate postal judge at the 14th Biology Research Symposium, Western Illinois University Macomb, IL (03/2016)
- Volunteer for Western Illinois University science demonstration show: An annual activity organized by the biology, chemistry and physics department that invite parents and children from the community to learn science as it relates to a particular theme (08/2015- 05/2017)
- Volunteer at Western Illinois University Biology Graduate Student Association (BGSA) Adopt a classroom program: A biweekly science outreach program designed for third graders from elementary schools around the community to stimulate an early interest in science (08/2015- 05/2017)

D. Organization Memberships:
Member, The American Society for Clinical Laboratory Science (ASCLS) 2023-2024

Member, Texas Association for Clinical Laboratory Science (TACLS) 2023-2024

Member, American Society for Clinical Pathologists (ASCP) 2017-2026

Member, American Society for Microbiology (ASM) 2020-2024

Member, Illinois State Academy of Science (ISAS) 2015-2018