Linda K. Mooberry, Ph.D.
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Personal Statement /Career Objective

I have been fulfilling the role of Laboratory Manager and Biosafety Officer. I want to use my experience as Lab Manager, attention to detail, and scientific knowledge to grow with the university as our STEM Building is completed. I am also progressing toward earning certification as a Biosafety Professional. I look forward to contributing to the development of new innovative research and teaching laboratories and state-of-the-art support spaces.

Educational Background

- Doctor of Philosophy in Biomedical Sciences through Department of Biochemistry and Molecular Biology from University of North Texas Health Science Center Graduate School of Biomedical Sciences, Fort Worth TX.

- Bachelor of Science Degree *Magna cum Laude* from University of Texas at Arlington. Major: Biochemistry; Minor: Biology.

Employment Experience

Laboratory Manager/Biosafety Officer, University of North Texas at Dallas, September 2023 to Present

- Attention to detail, ability to work independently, and oversight of lab prep, breakdown, and clean-up.
  Responsibility for media preparation and microorganism culture for Microbiology Laboratory.
  Responsible for lab prep, breakdown, and clean-up for various other labs, including Context of Chemistry, Earth Science, Biology for Educators, and General Physics I and II.
- Purchased all lab materials for Fall 2023, Spring 2024, Summer 2024, and Fall 2024 semesters
- Managed lab operating budget for Fiscal Year 2024
- Knowledge and maintenance of equipment and instrumentation.
  - Contacted technician for malfunctioning ice maker and purchased and installed new equipment
  - Contacted certified technician for fume hood service and maintenance
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- Maintaining safety precautions and monitoring for safety hazards.
- Development, updating, and maintaining lab protocols.

Assistant Laboratory Manager/Biosafety Officer, University of North Texas at Dallas, September 2020 to August 2023

- Attention to detail, ability to work independently, and oversight of lab prep, breakdown, and clean-up.
  Responsibility for media preparation and microorganism culture for Microbiology Laboratory.
  Responsible for lab prep, breakdown, and clean-up for various other labs, including Context of Chemistry, Earth Science, Biology for Educators, and General Physics I and II.
- Knowledge and maintenance of equipment and instrumentation.
  Discovered installation issue with Labconco Biological Safety Cabinet; resolved presence of

cotter pins in sash counterweights.
Searched for, contacted, and scheduled certification service for fume hoods, laminar flow hoods, and biosafety cabinet.
Trained in maintaining fume hoods, including us of monitoring software and installation of filters.

- Maintaining safety precautions and monitoring for safety hazards.
  Experienced in conducting all safety inspections.
  Designed and created biosafety forms.
  Completed Principles and Practice of Biosafety through ABSA.
- Knowledge and presentation of experiments and software.
  Scheduled IT Helpdesk to resolve issue with BioPac instrument used in Anatomy and Physiology I Lab.
  Instructed Adjunct Faculty in proper use.
- Supervision of student employees.
  Interviewed, trained, and supervised 3 Federal Work-Study student employees.
- Development, updating, and maintaining lab protocols.

Updated and maintained Microbiology lab prep sheets for hybrid and face-to-face classes Developed lab prep sheets for Context of Chemistry, Earth Science, and Biology for Educators

- Evaluation of adjunct faculty
  Conducted Peer-Teaching Observations for 2 Adjunct Instructors
- Operational Budget and Purchasing
  Approval of Pcard Application and Scheduled Pcard Training
  Completed Training and Received Approval as a UNT System Marketplace Requestor
  Given PaymentWorks Role as Initiator to Invite Vendors and Suppliers

Research Specialist, University of North Texas Health Science Center, January 2015- July 2018.

- Development of a macromolecular drug delivery nanoparticle platform for nucleic acids
- Collaborations with M.D. Anderson Cancer Center, Strike Bio, Inc. (Dallas, TX) and Fannin Innovation Studio (Houston, TX)
- Research conducted for the preparation of a patent application
- Co-Inventor on a provisional patent application
- DLAM Policy and CITI Lab Animal Research Training
- Animal studies such as biodistribution, pharmacokinetics, maximum tolerated dose and tumor-bearing animals
- Updates on the status of research projects through regular meetings and work-in-progress presentations
- Experience includes microfluidics, dynamic light scattering, confocal microscopy, RNAi transfection, radiolabeling of nucleic acids, aseptic cell culture, fast protein liquid chromatography, protein purification and characterization, and lab management such as ordering, scheduling, and training.

Graduate Teaching Assistant, UNTHSC.

- Awarded NIH Neurobiology of Aging Fellowship, UNTHSC.
  - Experience includes brain cancer research utilizing drug delivery nanoparticle, journal club and seminar presentations
- Awarded National Science Foundation Project Score Fellowship.
  - Experience includes 9th Grade Biology Lab Supervision such as lecturing and laboratory design and set-up
- Experience includes RNAi transfection, toxicity and anti-tumor assays *in vivo*, radiolabeling proteins, aseptic cell culture, cytotoxicity assays, immunoblotting, electron microscopy, biochemical assays and preparation of macromolecular drug complexes.

Lab Technician, University of Texas-Arlington.

- Experience includes PCR, recombinant DNA cloning, spectrophotometric and

calorimetric analysis of macromolecules, lab supervision such as ordering and training.

Teaching Experience

- Fall 2025 – Elementary Biochemistry
- Fall 2024 – Elementary Biochemistry
- Fall 2023 – Elementary Biochemistry
- Spring 2023 – Context of Chemistry Laboratory and Biology for Educators Laboratory
- Fall 2022 – Context of Chemistry Laboratory and Earth Science Laboratory
- Spring 2022 – Microbiology Laboratory; hybrid
- Fall 2021 – Biology of Educators Laboratory, 2 sections; hybrid
- Spring 2021 – Biology for Science Majors I Lecture, online

Service

May 2025: Greenhouse Usage Committee
February 2025: Search Committee, Lecturer of Biology
July 2024: search Committee, Assistant Laboratory Manager

Continuing Education and Training

August 2025: Completed Advanced Biosafety Training Series Module 1, Module 2
August 2025: Completed Pcard Renewal Training
August 2024: Completed APHIS 101: Arthropod and Plant Research Permits training course, ABSA.org
July 2024: Completed Pcard Renewal Training
May 2024: Completed Journal Worksheet Training
April 2024: Completed IDT Training
April 2024: Completed Budget Analytics Training
June 2023: Completed UNT System Marketplace Requestor and Shopper Training
July 2022: Completed Principles and Practice of Biosafety
June 2019: Completed Introduction to the Principles and Practice of Clinical Research, NIH
June 2019: Completed Introduction to Clinical Pharmacology, NIH

Professional Society Memberships

- American Biological Safety Association
- Southern Biosafety Association

Selected Publications and Presentations

Peer-Reviewed Journal Articles

Chen, X; Mangala, LS; Mooberry, L; Bayraktar, E; Dasari, SK; Ma, S; Ivan, C; Court, KA; Rodriguez-Aguayo, C; Bayraktar, R; Raut, S; Sabnis, N; Kong, X; Yang, X; Lopez-Berestein, G; Lacko, AG; Sood, AK. (2019). Identifying and targeting angiogenesis-related microRNAs in ovarian cancer. *Oncogene,* 38(33), 6095-6108. doi: 10.1038/s41388-019-0862-y

Raut, S; Mooberry, L; Sabnis, NA; Garud, A; Dossou, A; Lacko AG. (2018). Reconstituted HDL: drug delivery platform for overcoming biological barriers to cancer therapy. *Frontiers in Pharmacology,* 9:1154. doi: 10.3389/fphar.2018.01154

Raut, S; Dasseux, JL; Sabnis, NA; Mooberry, L; Lacko A. (2018). Lipoproteins for therapeutic delivery: recent advances and future opportunities. *Therapeutic Delivery, 9*(4), 257-268. doi: 10.4155/tde-2017-0122

Mooberry, LK; Sabnis, NA; Panchoo, M.; Nagarajan, B.; Lacko, AG. (2016). Targeting the SR-B1 receptor as a gateway for cancer therapy and imaging. *Frontiers in Pharmacology, 7*(466), 1-11. doi: 10.3389/fphar.2016.00466

Mooberry, LK; Nair, M; Paranjape, S; McConathy, WJ; Lacko, AG. (2010). Receptor-mediated uptake of paclitaxel from a synthetic high-density lipoprotein nanocarrier. *J Drug Targeting, 18*(1), 53-58. doi: 10.3109/10611860903156

Dissertation

Mooberry L, Evaluation of Reconstituted High Density Lipoprotein as an Anticancer Drug Platform; UMI Dissertation Publishing; 2010; 177pgs.

Presentations

Mooberry, L; Sabnis, N; Raut, S; Lacko, A. Optimization of reconstituted lipoprotein nanoparticle for short-interfering RNA delivery. Innovations in Cancer Prevention and Research Conference, Austin TX; November 2017.

Mooberry, L; Sabnis, N; Lacko, A. Optimization of reconstituted high density lipoprotein (rHDL) nanoparticles (NPs) for short-interfering RNA (siRNA) delivery. Experimental Biology 2017, Chicago IL; April 2017.