

May H. Abdelaziz, BPharm, MS, PhD

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APPOINTMENTS

Associate Professor (Tenured)

Sept 2024-Present

Assistant Professor

June 2017-Aug 2024

Ben and Maytee Fisch College of Pharmacy (FCOP),
The University of Texas, Tyler (UT Tyler) – Tyler, TX

EDUCATION

Doctor of Philosophy

Feb 2013

Pharmaceutical Sciences – School of Pharmacy
Virginia Commonwealth University (VCU)– Richmond, VA
Dissertation title: *Kinetic and Thermodynamic Studies of Thrombin Inhibitors*

Master of Science

June 2008

Pharmaceutical Chemistry – School of Pharmacy
Cairo University – Cairo, Egypt
Thesis title: *Determination of Some Antifungal Agents*

Bachelor of Pharmaceutical Sciences (with honors)

May 2002

School of Pharmacy
Cairo University – Cairo, Egypt

ACTIVE FUNDING

FCOP Endowment Award (**\$75,000**)

Sept 2025 – Aug 2026

NCI/NIH R15CA283780 (**\$447,250**)

April 2024 – March 2027

“Characterization of HER2 inhibitors with a novel mechanism of action”
Role: PI

University of Texas System Retention STARs Award (**\$260,000**)

Sept 2024 – Aug 2027

Capital Equipment Funds to enhance PI lab research infrastructure
Role: PI

AI IDEA Grant (**\$14,000**)

April 2026 – Mar 2027

“Cognitive Architecture-Based Learning: Using Generative AI to
Individualize Pharmacy Curriculum for Diverse Neural Phenotypes”
Role: Co-I

PENDING FUNDING

NIAID/NIH R01AI195992 **(\$2,510,112)**

July 2027 – June 2032

“The effect of VraS sensor histidine kinase mutations on *S. aureus* virulence and signaling crosstalk”

Role: PI

COMPLETED FUNDING

UT Tyler ORS Faculty Research Support **(\$170,000)**

June 2022 – Dec 2024

This fund is allocated to hire a postdoctoral research associate to support PI research program.

Role: PI

NIH R21AI154189 **(\$380,750)**

Feb 2021 – Jan 2024

“Mechanistic Insights into VraS Mutations Linked to Bacterial Resistance”

Role: PI

UT Tyler Collaborative Research Grant **(\$30,000)**

July 2023 – June 2024

“The effect of VraS mutation on *S. aureus* gene expression and signaling network crosstalk”

Role: PI

UT Tyler Collaborative Research Grant **(\$30,000)**

July 2023 – June 2024

“Oral short-course pan-TB regimen with optimal dose combination of Omadacycline, delamanid, and OPC-167832.

Role: Co-PI

FCOP Research and Scholarship Grant **(\$16,500)**

July 2022 – Jun 2024

“Design and characterization of electrospun nanofiber membrane for antibacterial drug delivery”

Role: Co-PI

FCOP Assessment Grant **(\$5,604)**

July 2021 – June 2022

“Prediction and Utilization of PCOA Scores in Fisch College of Pharmacy”

Role: PI

FCOP Research and Scholarship Grant **(\$10,000)**

July 2020 – Jun 2021

“VraS Mutant Inhibition and Recombineering Using CRISPR/Cas9 Counterselection”

Role: PI

American Association of University Women (AAUW)

Research Publication Grant **(\$25,650)**

July 2019 – June 2020

“Optimizing the expression of kinases in *E. coli*”

Role: PI

FCOP Research and Scholarship Grant (**\$22,500**) July 2018 – June 2020
“Designing Artificial EGF Receptors Capable of Spontaneous Dimerization”
Role: PI

UT Tyler New Faculty Grant (**\$10,000**) Sept 2018 – Aug 2019
“Discovering Novel Allosteric Inhibitors of HER2 Homodimerization in Cancer”
Role: PI

UT Tyler Undergraduate Research Award (**\$3,000**) Sept 2018 – Aug 2019
“Designing Artificial EGF Receptors Capable of Spontaneous Dimerization”
Role: Co-PI

Not-Funded

NSF #2408739 (\$398,790) Spring 2025
“Equipment: MRI: Track 1 Acquisition of Fourier Transform Infrared Microscopy
for Multidisciplinary Materials Research and Education”
Role: Co-PI

NIH 1DP2OD034854 (\$2,192,550) Fall 2022
Discovery and validation of the first-in-class allosteric HER2 dimerization inhibitors

American Association for Cancer Research (AACR) (\$144,000) Spring 2020
Allosteric HER2 Dimerization Inhibitors: Hit Validation

AACP-Scholarship of Teaching and Learning (\$2,800) Spring 2018
“Developing A New Peer Evaluation Tool for Team-Based Learning”

Worldwide Cancer Research (\$142,500) Spring 2018
“Building A Biomolecular Lego-Inspired Toolbox for Assembling Artificial Dimerized Receptors”

AACP-New Investigator Award (\$10,000) Spring 2017
“Discovering Novel Allosteric Inhibitors of HER2 Homodimerization in Cancer”

PUBLICATIONS AND BOOK CHAPTERS

#Corresponding author, Undergraduate student, PharmD student

Discovery of Novel HER2 Inhibitors Proposed to Allosterically Inhibit Receptor Dimerization. B Cagle-White, S Bhattarai, HS Sibal, O Oyerinde, S Petkar, P Mosier, **MH Abdel Aziz[#]**. Under preparation.

Expression of Human Kinases in Bacterial Host Systems: A Comprehensive Review. B Cagle-White, H Sibal, R Imran, **MH Abdel Aziz[#]**. Under revision.

Progress and Advances in Nanotechnology-Based Pharma Products for the Treatment and Diagnosis of Ovarian Cancer. R Kashikar, A Kotha, J Le, TT Nguyen, P Famta, S Shah, G Vambhurkar, DA Srinivasarao, MH Abdelaziz, S Srivastava, M Chougule#. Under revisions.

Beta-lactam enhancement against methicillin-resistant *Staphylococcus aureus* by cell wall blockade is autolysis-dependent: a butyrolactone derivative as case in point. PM Magdum, JN Grissom, BT Franey, S Ullah, **MH Abdel Aziz**, EJ North, and A Sarkar#. Under final revisions.

Key Concepts of Medicinal Chemistry in Pharmacy Education: A Framework Connecting Science to Entrustable Professional Activities. CW Cunningham#, IS Haworth, **MH Abdel Aziz**, A Coop, MJ DellaVecchia, G Gumina, RV Kumar, EA Laubach, D Sun. Under peer review.

Scholarly Productivity Before and After Tenure Among Non-Pharmacy Practice Faculty in U.S. Schools and Colleges of Pharmacy. **MH Abdel Aziz**#, S Pollard, O Shoair#. Under peer review.

Design and Characterization of Electrospun Nanofiber Membranes for Antibacterial Drug Delivery. S Karki, A Neelam, I Montoya, S Sultana, O Alsmairat, S Aryal, **MH Abdel Aziz**#. Under peer review.

Scholarly Productivity of Non-Pharmacy Practice Faculty in U.S. Schools and Colleges of Pharmacy, 2019–2023. OA Shoair#, S Pollard, F Fosuhene-Apenteng, M Pimentel-Galvan, A Elagami, **MH Abdel Aziz**#. (2026) *Expl. Res. Clin. Soc. Pharm.* 23: 100806.

Staphylococcus aureus sensor histidine kinase VraS mutations linked to antibiotic resistance affect enzymatic catalysis, stability, and substrate interactions. B Cagle-White, S Bhattarai, E Scott, A Solis, L Marsh, K Catague, A Sarkar, **MH Abdel Aziz**#. (2026) *Arch Biochem Biophys.* 776: 110715.

A Mechanistic Understanding of the Effect of *Staphylococcus aureus* VraS Histidine Kinase Single Point Mutation on Antibiotic Resistance. L Ali, S Karki, G Boorgula, A Mekakda, B Cagle-White, S Bhattarai, R Beaudoin, A Blakeney, S Singh, S Srivastava, **MH Abdel Aziz**#. (2025) *Microbiol. Spectr.* 10.1128/spectrum.00095-25

Pharmacy Faculty and Students Perceptions of Artificial Intelligence: A National Survey. KA Gustafson, ..., **MH Abdel Aziz**, et al. (2025) *Curr. Pharm. Teach. Learn.* 17 (6): 102344.

A Benzoxazolylurea Inhibits VraS and Enhances Antimicrobials against Vancomycin Intermediate-Resistant *Staphylococcus aureus*. EP Heckler, L Ali, S Bhattarai, B Cagle-White, N Smith, RA Coover, **MH Abdel Aziz**#, A Sarkar#. (2025) *Bioorg. Med. Chem. Lett.* 120:130113.

Pharmacists' perceptions of artificial intelligence: A national survey. KA Gustafson, ..., **MH Abdel Aziz**, et al. (2025) *J. Am. Pharm. Assoc.* 65 (1): 102306.

Crosstalk involving two-component systems in *Staphylococcus aureus* signaling networks. L Ali and **MH Abdel Aziz**[#]. (2024) *J. Bacteriol.* 206(4):e0041823

Camptothecin Structure Simplification Elaborated New Imidazo[2,1-b]quinazoline Derivative as a Human Topoisomerase I Inhibitor with Efficacy against Bone Cancer Cells and Colon Adenocarcinoma. Al Khodair, SM El-Hallouty, B Cagle-White, MH Abdel Aziz, MK Hanafy, S Mowafy, NM Hamdy, SE Kassab. (2024) *Eur. J. Med. Chem.* 265: 116049.

A Scoping Review of Artificial Intelligence within Pharmacy Education. **MH Abdel Aziz**[#], C Rowe, R Southwood, A Nogid, S Berman, KA Gustafson. (2024) *Am. J. Pharm. Educ.* 88: 100615.

NH125 Sensitizes *Staphylococcus aureus* to Cell Wall Targeting Antibiotics through the Inhibition of VraS Sensor Histidine Kinase. S Bhattarai, L Marsh, K Knight, L Ali, A Gomez, A Sunderhaus, **MH Abdel Aziz**[#]. (2023) *Microbiol. Spectr.* 11(3):e0486122.

Pharmacy Students' Perceptions and Attitudes Toward Face-to-Face vs. Virtual Team-Based Learning (TBL) in the Didactic Curriculum: A mixed-Methods Study. O Shoair, WJ Smith, **MH Abdelaziz**, M Veronin, J Glavy, S Pirtle. (2023) *Med Educ Online* 28(1):2226851.

A FOXC2 inhibitor, MC-1-F2, as a Therapeutic Candidate for Targeting EMT in Castration-Resistant Prostate Cancer. M Castaneda, L Rodriguez; J Oh; B Cagle-White; H Suh; **MH Abdel Aziz**, J Lee. *Bioorg. Med. Chem. Lett.* 91 (2023) 129369.

Comparative Expression of Soluble, Active Human Kinases in Specialized Bacterial Strains. A Sunderhaus, R Imran, E Enoh, A Adedeji, T Obafemi, **MH Abdelaziz**[#]. *PLoS ONE* (2022) 17(4): e0267226.

Engineering Soluble Artificial Receptor Tyrosine Kinase Mimics Capable of Spontaneous *in vitro* dimerization. A Sunderhaus, R Imran, A Goudelock, M Nassar, K Cooper, D Patterson, **MH Abdel Aziz**[#]. *Biotechnol Bioeng.* 118 (2021) 1466–1475

Expression and Purification of Active Human Kinases Using *Pichia pastoris* as A General-Purpose Host. **MH Abdel Aziz**[#], Y Fan, L Liu, M Moasser, H Fu, N Jura, M Arkin. *Prot. Exp. Puri.* 179 (2021) 105780.

Onydecalsins, Fungal Polyketides with Anti-Histoplasma and Anti-TRP Activity. L Zhenjian, P Sujal, Z Lu, S Beyhan, **MH Abdel Aziz**, C Reilly, EW Schmidt. *J. Nat. Prod.* 81(12) (2018) 2605-11.

Novel Heparin Mimetics Reveal Cooperativity Between Exosite 2 and Sodium-Binding Site of Thrombin. **MH Abdel Aziz**, UR Desai. *Thromb. Res.* 165 (2018) 61-67.

Drofenine: A 2-APB analog with improved selectivity for human TRPV3. CE Deering-Rice, VK Mitchell, EG Romero, **MH Abdel Aziz**, DA Ryskamp, D Križaj, RG Venkat, CA Reilly. *Pharma. Res. Per.* 2(5) (2014) e00062.

Oxazinin A, A Fungal Dimeric Polyketide. Z Lin, M Koch, **MH Abdel Aziz**, D Tianero, R Galindo, T Cheatham III, L Barrows, CA Reilly, E Schmidt. *Org. Lett.* 16 (18) (2014) 4774-77

Designing Allosteric Regulators of Thrombin: Exosite 2 Features Multiple Sub-Sites That Can Be Targeted by Sulfated Small Molecules for Inducing Inhibition. PS Sidhu^{*}, **MH Abdel Aziz**^{*}, A Sarkar, AY Mehta, Q Zhou, UR Desai. *J. Med. Chem.* 56 (12) (2013) 5059–70. ^{*} Equally contributing authors.

Cardiovascular Agents. UR Desai, R Al-Horani, AY Mehta, **MH Abdel Aziz** (2013). In *The Chemistry of Drugs for Nurse Anesthetists – 2nd Edition* (Eds. Drs. Lemont B. Kier and Cynthia Schiek), AANA Publishing, Park Ridge, IL.

Designing allosteric regulators of thrombin: Monosulfated benzofuran dimers selectively interact with Arg173 of exosite 2 to induce inhibition. **MH Abdel Aziz**, PS Sidhu, A Liang, JY Kim, PD Mosier, Q Zhou, DH Farrell, UR Desai. *J. Med. Chem.* 55 (2012) 6888 – 97.

Identification of the site of binding of sulfated low molecular weight lignins on thrombin. **MH Abdel Aziz**, PD Mosier, UR Desai. *Biochem. Biophys. Res. Commun.* 413 (2011) 348 – 52.

Rational design of potent, small, synthetic allosteric inhibitors of thrombin. PS Sidhu, A Liang, AY Mehta, **MH Abdel Aziz**, Q Zhou, UR Desai. *J. Med. Chem.* 54 (2011) 5522 – 31.

Sulfated, low-molecular-weight lignins are potent inhibitors of plasmin, in addition to thrombin and factor Xa: Novel opportunity for controlling complex pathologies. BL Henry, **MH Abdel Aziz**, Q Zhou, UR Desai. *Thrombosis and Haemostasis* 103 (2010) 507–15.

INVITED PRESENTATIONS

Signal Crosswire: Crosstalk in *S. aureus* Signaling Systems. Presented at the Southern Biomedical Engineering Conference (SBEC). Tyler, TX, September 13, 2025.

A career in STEM research for women students and underrepresented minorities. Presented at the Southern Biomedical Engineering Conference (SBEC). Tyler, TX, September 13, 2025.

From Admissions to Outcomes: Leveraging Data to Identify and Support At-Risk Students. Presented at the FCOP Faculty Retreat. June 2025.

Bridging Innovation: Drug Discovery in Academia and Industry. Presented at the ACS East Texas section. UT Tyler, February 18, 2025.

AI in Pharmacy Education. Presented at the FCOP Faculty Retreat. June 2024

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A career in STEM research for women students and underrepresented minorities. Presented at the Southern Biomedical Engineering Conference (SBEC). Shreveport, LA, September 14, 2024.

Medicinal Chemistry: Healing by Design. Presented at ACS National Chemistry Week. UT Tyler, October 16, 2023.

The Effect of the *Staphylococcus aureus* Histidine Kinase VraS Mutations on Catalysis, Substrate Affinity, and Antibiotic Resistance. Presented at UT Health Science Center at Tyler. May 30, 2023.

Kinases: At the Crossroads of Human and Bacterial Cell Signaling. Presented at the FCOP Research Seminar Series. May 9, 2023.

Biomedical Research APPEs: Opportunities and Challenges. Presented at the FCOP Preceptor Conference. December 10, 2022.

Engineered tyrosine kinase receptor dimers as a drug discovery tool. **Podium Presentation** at the SBEC. August 27, 2022.

An Artificial Receptor Model for Discovering Protein–Protein Interaction Inhibitors. **Keynote Address**. Indiana University Postdoctoral Symposium. October 15, 2021.

Closing the Loop: Curricular Mapping and Addressing Gaps. Presented at the FCOP Faculty Retreat. July 2021.

Digital Health in Education and Practice. Presented to FCOP Faculty. Spring 2021

Discovering Novel Anticancer Allosteric Inhibitors of HER Dimerization. Presented at UT Health Science Center at Tyler. May 4, 2021.

POSTERS (Undergraduate student, PharmD student)

How do *Staphylococcus aureus* VraS sensor histidine kinase mutations affect its inhibition? MH Abdel Aziz, A Nguyen, D Al-Manaseer, R Shofner, B. Root. Presented at the National American Society of Microbiology Conference. Washington DC. June 5, 2026.

Structure-based design and analog similarity search guiding the discovery of HER2 allosteric inhibitors. I Montoya, S Petkar, PD Mosier, and MH Abdel Aziz. Presented at the National American Chemical Society Meeting. Atlanta, GA. March 24, 2026.

Mutations in the sensor VraS histidine kinase alter *Staphylococcus aureus* virulence. R Shofner, L Ali, S Karkj, S Petkar, MH Abdel Aziz. Presented at the Texas ASM Conference. Tyler, TX. October 31, 2025.

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Mutations cause a differential inhibition effect on the autophosphorylation of VraS sensor histidine kinase. A Nguyen, D Al-Manaseer, MH Abdel Aziz. Presented at the Texas ASM Conference. Tyler, TX. October 31, 2025.

Characterizing human Aurora kinase-A inhibitors. I Montoya, D Al-Manaseer, J Lee, MH Abdel Aziz. Presented at the LSUS Regional Student Scholars Forum. Shreveport, Louisiana. April 4, 2025.

Mutations in the sensor VraS histidine kinase alter *Staphylococcus aureus* virulence. R Shofner, L Ali, S Karki, A Blakeney, MH Abdel Aziz. Presented at the LSUS Regional Student Scholars Forum. Shreveport, Louisiana. April 4, 2025.

Exploring the Effect of VraS Mutations on Crosstalk in the Two-Component System Signaling Network of *Staphylococcus aureus*. D Al-Manaseer, A Mattern, L Ali, S Karki, and MH Abdel Aziz. Presented at the UT Tyler Lyceum, Tyler, TX. April 11, 2025.

Single point mutations in the sensor VraS histidine kinase drive *Staphylococcus aureus* antibiotic resistance. R Shofner, L Ali, S Karki, MH Abdel Aziz. Presented at the International Conference on Gram-Positive Pathogens. Omaha, Nebraska. October 14, 2024.

The Effect of VraS Single Point Mutation on *Staphylococcus aureus* Gene Expression during Vancomycin Shock: A Bioinformatic Analysis. S Karki, L Ali, S Srivastava, MH Abdel Aziz. Presented at the UT Tyler Lyceum, Tyler, TX. April 26, 2024.

Exploring Crosstalk Interactions in the Two-Component System Signaling Network of *Staphylococcus aureus*. D Al-manaseer, A Ngu, L Ali, S Karki, and MH Abdel Aziz. Presented at the UT Tyler Lyceum, Tyler, TX. April 26, 2024.

Molecular Mechanism of *Pseudomonas*-induced Activation of Epidermal Growth Factor Receptor. E Nwachukwu, S Fancher, B Cagle-White, MH Abdel Aziz, D Patterson, A Azghani. Presented at the East Texas Research Conference. Tyler, TX. April 12, 2024.

The effect of *Staphylococcus aureus*' VraS kinase domain mutations on VraR interaction affinity and activation. A Solis, B Cagle-White, L Marsh, S Bhattarai, MH Abdel Aziz. Presented at the National American Society of Microbiology Conference, Houston, TX. June 16, 2023.

The impact of *Staphylococcus aureus* VraS histidine kinase mutation on antibiotic resistance. L Ali, B Cagle-White, K Knight, MH Abdel Aziz. Presented at the National American Society of Microbiology Conference, Houston, TX. June 18, 2023.

Engineering polycaprolactone composite nanofiber as antibacterial wound healing scaffolds. I Montoya, S Karki, S Sulthana, S Aryal, O Alsmairat, MH Abdel Aziz. Presented at the UT Tyler Lyceum, Tyler, TX. April 14, 2023.

Investigating the Mechanism of Pseudomonas-induced Activation of Epidermal Growth Factor Receptor in vitro. E Nwachukwu, B Cagle-White, MH Abdel Aziz, A Azghani. Presented at the Texas Branch–American Society for Microbiology. March 25, 2023.

Design and characterization of electrospun nanofiber membrane for antibacterial drug delivery. S Karki, A Neelam, B Cagle-White, A Solis, L Ali, O Alsmairat, S Aryal, MH Abdel Aziz. Presented at the Southern Biomedical Engineering Conference. August 26, 2022. **(Third place, Undergraduate Student Poster Award)**.

Exploring the effect of mutations on the activity and stability of the bacterial histidine kinase VraS. E Scott, A Sunderhaus, S Bhattarai, K Catague, B Cagle-White, MH Abdel Aziz. Presented at the National American Chemical Society Meeting. March 21, 2022.

Activation of VraS histidine kinase by T331I mutation linked to antibiotic resistance. S Bhattarai, A Sunderhaus, L Marsh, and MH Abdel Aziz. **Selected for the “Live Poster” session** at the National American Chemical Society Meeting. April 10, 2021.

Modulation of VraS Sensor Histidine Kinase Activity and Inhibition in Presence of its Response Regulator VraR. L Marsh, S Bhattarai, A Sunderhaus, P Epie, and MH Abdel Aziz. Presented at the Texas Academy of Science. February 27, 2021.

Characterization of VraS Kinase Involved in Bacterial Resistance. A Gomez, S Bhattarai, V Ikegbunam, A Sunderhaus, and MH Abdel Aziz. Presented at the UT Tyler Lyceum, Tyler, TX. April 17, 2020. **(First place, Graduate Student Poster Award)**.

The Cellular Effects of An Allosteric HER2 Homodimerization Inhibitor. S Bhattarai, R Imran and MH Abdel Aziz. Presented at the UT Tyler Lyceum, Tyler, TX. April 17, 2020

Discovering novel anticancer allosteric inhibitors of HER2 homodimerization. H Sibal, O Overinde, P Amadi-Ohiri, PD Mosier, MH Abdel Aziz. Presented at the ACS National Meeting. Philadelphia, PA. March 22, 2020.

Optimizing the expression of soluble, active human kinases using specialized *E.coli* strains. R Imran, A Adedeji, T Obafemi, MH Abdel Aziz. Presented at the ACS National Meeting, Philadelphia, PA. March 22, 2020.

De-novo design and engineering of soluble artificial kinase receptor proteins. M. Nassar, D. Patterson and MH Abdel Aziz. Presented at the Texas Academy of Science Meeting, Nacogdoches, TX. February 28, 2020.

Discovering Potential Novel Allosteric Inhibitors of HER2 Homodimerization for Treatment of Cancer. PD Mosier and MH Abdel Aziz. Presented at the East Texas Research Conference. Tyler, TX. May 9, 2019.

Optimizing the Expression of Human Heparanase in Insect Cells. E Enoh; H Sibal, R Imran; and MH Abdel Aziz. Presented at the East Texas Research Conference. Tyler, TX. May 9, 2019.

Sulfated low molecular weight lignins bind to a specific pocket in thrombin exosite 2. MH Abdel Aziz, BL Henry, PD Mosier, UR Desai. Presented at the *ACS Southeastern Regional Meeting*. Richmond, VA. October 27, 2011.

Identification of the site of binding of sulfated low molecular weight lignins on thrombin. MH Abdel Aziz, JN Thakkar, BL Henry, A Liang, PD Mosier, UR Desai. Presented at the *Virginia Academy of Sciences meeting*. Richmond, VA. May 26, 2011.

TEACHING EXPERIENCE (in Team-Based Learning format)

Coordinator and Instructor, Introduction to Medicinal Chemistry (UT Tyler) (2019 - present)

Coordinator and Instructor, Integrated Lab 12 (UT Tyler) (Spring and Fall 2018)

Instructor, Integrated Pharmacy Courses (UT Tyler) (2017 - present)

Develop and conduct medicinal chemistry modules and integrated content with pharmacology, pathophysiology, and pharmacotherapy instructors. Several pharmacotherapy modules were taught including cardiovascular, endocrinology, infectious diseases, neuroleptics and centrally acting agents and oncology courses.

Trainer, NIH Programs of Excellence in Glycosciences (VCU) Spring 2013

Experimental design and training of visiting scholars on capillary electrophoresis and surface plasmon resonance techniques in glycobiology.

Tutor, Medicinal Chemistry for Nurse Anesthesia (VCU) Spring 2011

Medicinal Chemistry Teaching Assistant (VCU) 2008 – 2011

Foundations I and II

Applications of Pharmaceutical Analysis/Skills Lab III

Molecular Modeling

Pharmaceutical Chemistry Lab Instructor (MIU) 2002 – 2008

Pharmaceutical Chemistry I and II, and Drug Design

RESEARCH FOCUSED SERVICE

Reviewer – NIH/NIAID Drug Discovery and Molecular Pharmacology A (DMPA) review panel July 2026

Reviewer – NIH/NIAID DMPA review panel April 2026

Reviewer – NIH/NIAID Infectious Disease Drug Development and Molecular Pharmacology (DCAI 81) review panel Jan 2026

Judge, 3M Graduate Thesis Competition April 2025

<i>Reviewer – NIH/NCI review panel for R21 and R03 applications</i>	<i>Feb 2025</i>
<i>Reviewer – NIH/NIAID Anti-Infective Resistance and Targets study section</i>	<i>June 2024</i>
<i>Ad-Hoc reviewer for UT Tyler Institutional Grants</i>	<i>Spring 2024</i>
<i>Reviewer – NIH review panel for R13 Conference Grants</i>	<i>Nov 2023</i>
<i>Reviewer – AACP New Investigator Award</i>	<i>Fall 2023</i>
<i>Reviewer – AACP Conference Poster Reviewer</i>	<i>2024 - present</i>
<i>Reviewer – NIH Special Emphasis Panel - Fellowships</i>	<i>July 2023</i>
<i>Past Chair, UT Tyler Research Council (member since 2019)</i>	<i>2020-2022</i>
<i>Reviewer – NIH Study Section Macromolecular Structure and Function-A</i>	<i>Feb 2021</i>
<i>Thesis Committee Member (11)</i>	<i>2020–present</i>
<i>Research Advisor for UT Tyler Presidential Fellows</i>	<i>Fall 2019–2022</i>
<i>Judge, UT Tyler Lyceum</i>	<i>2019–present</i>
<i>Graduate School Representative in dissertation committees</i>	<i>Fall 2018–present</i>
<i>Developed FCOP research initiative for UT Tyler strategic plan</i>	<i>Fall 2017</i>
<i>Member in the Faculty Senate task force for Interdisciplinary Research (UT Tyler)</i>	<i>2017/2018</i>
<i>Member in FCOP Research Lab Design ad-hoc committee (UT Tyler)</i>	<i>2017/2018</i>
<i>Reviewer for several scientific journals</i>	<i>2013–present</i>

PROFESSIONAL AND ACADEMIC-FOCUSED SERVICE

Chair, Curricular Revision Task Force (FCOP)	2025-2026
Vice Chair, Curriculum Committee (FCOP)	2025-2026
Vice Chair, 41 st SBEC Organizing Committee	Sept 2025
Chair, Career Development session, SBEC	2024 and 2025
Chair, Biology and Biochemistry session, SBEC	Sept 2025
Member, Faculty Tribunal Hearing Panel (UT Tyler)	2024/2025
Member, SBEC Program Organizing Committee	2024-2025
Chair, Career Development session, SBEC	Sept 2024
Chair, Admission Committee (FCOP)	2023-2025
Chair, Faculty Search Committee	Spring 2025
Member, Research and Scholarship Committee (FCOP)	2023-2025
Member in Faculty Search Committees	2020 - 2025
Organized “AI in Pharmacy Education” Workshop for FCOP faculty	Summer 2024
FCOP Representative in the AACP House of Delegates	2023-2024
Chair, Biomaterials and BioSensors session, SBEC	Spring 2022
Member in postdocs/technicians Search Committees (FCOP)	2019–present
Reviewer for VCU 10 under 10 Award	2022-present
Member and chair in AACP Accreditation Self Study Committee (FCOP)	2017-present
Member in AACP Accreditation Steering Committee (FCOP)	2020-present
Abstract Reviewer for the AACP Annual Meeting	2020–present
Member, Assessment Committee (FCOP)	2018-2019
Organized AAPS Visiting Scientist Program Seminar – Dr. Ram Agharkar	March 2023
Chair, Curriculum Committee (FCOP)	2019-2020
Organized “Closing the Loop” Workshop for FCOP faculty	July 2021

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Organized “Digital Health in Education and Practice” Workshop for FCOP faculty	Spring 2021
Member in 2 ORS office search committees (UT Tyler)	2020–2021
UT Tyler Diversity and Inclusion Taskforce (UT Tyler)	2020/2021
Organized FCOP Grant Writing Seminar by Dr. Umesh Desai	Sept 2019
Book Reviewer for John Wiley & Sons	Spring 2019
Member of Wellness Taskforce (FCOP)	2019–2021
Member of OSCE Committee (FCOP)	2018/2019
Member of Strategic Planning Committee (FCOP)	2019–2021
Reviewer for AACP Express Script Scholar Program	Fall 2019
Member of Central Lab Manager Search Committee (UCSF)	Fall 2016
President, Graduate Students Association (VCU)	2011/2012
International Pharmacy Student Advisor (MIU)	2005 – 2008
Member, Quality Assurance of Academic Education (MIU)	2006 – 2008
Supervisor, Research Center (MIU)	2005 – 2006

CERTIFICATES

ACUE Certificate in Effective College Instruction	May 2023
TBL Practitioner Certificate, TBL Collaborative	Mar 2021
Fundamentals of TBL, TBL Collaborative	Feb 2019
Science Teaching Effectiveness Program for Upcoming Professors, UCSF	April 2016
Research Administration Training Series, U of U	2013
The Pre-Award Certificate.	
The Post-Award Certificate.	
The Research Investigator Certificate.	
The Responsible Conduct of Research Certificate.	

AWARDS AND HONORS

Peggy Cotter Award for outstanding early-career ASM branch members	2026
P4 Class Teacher of The Year Award	2025
Virginia Commonwealth University 10 under 10 Award	2021
P3 Class Teacher of The Year Award	2019
Dean’s Award for Excellence in Graduate Studies (VCU)	2013
Graduate School Dissertation Award (VCU)	2012
Certificate of Excellence for Outstanding Performance (MIU)	2007

RESEARCH TRAINEES’ ACHIEVEMENTS

Ben Fisch Fellowship in Pharmacy Award (Graduate student: Itzel Montoya)	2024
Dawn Franks Student Research Endowment Award (PharmD: Michael Pimentel-Galvan)	2024
PGY1 Memorial Hermann The Woodlands Medical Center (PharmD: Emerald Scott)	2023
Merck Manual Award for Academic Excellence (PharmD: Emerald Scott)	2023
Third place, Undergraduate Student Poster Award (Undergraduate: Salima Karki)	2022

USPHS Student Externship (PharmD: Kristina Catague)	2022
FDA Pharmacy Student Experiential Program (PharmD: Emerald Scott)	2022
Student Employee Rising Star Award (Undergraduate: Allison Sunderhaus)	2022
Summer Internship – Quest Diagnostic (Undergraduate: Allison Sunderhaus)	2021
American Chemical Society Bridge Travel Award (Undergraduate: Elanzou Enoh)	2020
First place, Graduate Student Poster Award (PharmD: Antonio Gomez)	2020
Steven Coleman Leadership Award (PharmD: Antonio Gomez)	2020

PROFESSIONAL AFFILIATIONS

American Chemical Society (ACS)	2011 – Present
American Association of Colleges of Pharmacy (AACP)	Lifetime member
American Association of University Women (AAUW)	2018 – Present
American Society of Microbiology (ASM)	2019 – Present
American Association for Cancer Research (AACR)	2019 – 2022