

RICHA CHANDRA, PH.D.

Department of Chemistry & Biochemistry
University of St. Thomas, Houston, TX

Phone: (713) 942-5928
E-Mail: chandrr@stthom.edu

PROFESSIONAL PREPARATION

Ph.D., Analytical Chemistry, Texas A&M University, College Station, TX	2006
Dissertation: "The Analysis of Triglyceride-Rich Lipoproteins in Human Serum for Clinical Studies"	
Focus: Bioanalytical Chemistry	Advisor: Ronald D. Macfarlane
B.A., Chemistry, Austin College, Sherman, TX	2002
B.A., Spanish, Austin College, Sherman, TX	2002

PROFESSIONAL EXPERIENCE

Chair of the Department of Chemistry and Biochemistry, University of St. Thomas, Houston, TX	2025-present
Professor (Tenured) of Chemistry, University of St. Thomas, Houston, TX	2025-present
Past Chair of ACS-GHS (American Chemical Society Greater Houston Section)	2026-2027
Chair of ACS-GHS (American Chemical Society Greater Houston Section)	2025-2026
Chair-Elect of ACS-GHS (American Chemical Society Greater Houston Section)	2024-2025
Associate Professor of Chemistry (Tenured), University of St. Thomas, Houston, TX	2020-2025
Cullen Trust for Higher Education/Delores Welder-Mitchell Chair	2020-present
Director of MSEIP (Minorities in Science and Engineering Improvement Program)	2022-2024
Education Consultant (STEAM on Demand)	2023-2025
Co-Host of WISEcast (Podcast for Women in STEM and Education)	2020-present
Co-Founder, The Wisest Women: Social Impact Organization Bringing Equity in STEM	2020-Present
Assistant Professor of Chemistry (tenure-track), University of St. Thomas, Houston, TX	2013-2020
Visiting Assistant Professor of Chemistry, Southwestern University, Georgetown, TX	2011-2013
Adjunct Associate Professor of Chemistry, Austin Community College, Austin, TX	2010-2011
Post-Doctoral Research Associate, Department of Cell and Molecular Biology, TTUHSC	2008-2009

LANGUAGES

Fluency in English, Hindi and Spanish

PEER-REVIEWED PUBLICATIONS

***undergraduate students indicated with asterisk**

*Kong, N.; *Penaloza, N.; *Agreda, G.; *Castillo, A.; *Nguyen, A.B. *Cardozo, C.; *Gutheinz, J.; *Tran, A.; *Ho, T.V.; Mellis, B.; Chandra, R. "Oxidation Effects on Lipoproteins Measured by Dynamic Light Scattering" Biochemistry and Biophysics Reports. 2025 Feb 10; (41): 101945. <https://doi.org/10.1016/j.bbrep.2025.101945>

*Rasool A.; *Chidi C.; *Rigaut S.; *Carty S.; Soubra-Ghaoui C; Chandra. R. "A Novel Combinatorial Approach Integrating Experimental and Computational Analysis of Antioxidant Activity: Evaluating Catechin and L-Ascorbic Acid in Serum" PLOS ONE 20(1): e0309881. <https://doi.org/10.1371/journal.pone.0309881> 2025 Jan 15.

Chandra, R.; Mellis, B.; *Garza, K.; *Hameed, S.A.; *Jurica, J.M.; *Hernandez, A.V.; *Nguyen, M.N.; Mittal, C.K. "Remnant Lipoprotein Size Distribution Profiling via Dynamic Light Scattering Analysis" *Clinica Chimica Acta*. 2016 Nov 1;(462):6-14.

Chae, P.S.; Kruse, A.C.; Gotfryd, K.; Rana, R.R.; Cho, K.H.; Rasmussen, S.G; Bae, H.E.; Chandra, R.; Gether, U.; Guan, L.; Kobilka, B.K.*; Loland, C.J.; Byrne, B.; Gellman, S.H. "Novel Tripod Amphiphiles for Membrane Protein Analysis" *Chemistry, A European Journal*. 2013 Nov 11; 19(46): 15645-51. (*Co-Authored with Brian Kobilka, Nobel Prize in Chemistry 2012)

Chae, P.S.; Rasmussen, S.G.; Rana, R.R.; Gotfryd, K.; Chandra, R.; Goren, M.A., Kruse, A.C.; Nurva, S.; Loland, C.J.; Pierre, Y.; Drew, D.; Popot, I.L.; Picot, D.; Fox, B.G.; Guan, L.; Gether, U., Byrne, B.; Kobilka, B.K.*; Gellman, S.H. "Maltose-neopentyl glycol (MNG) amphiphiles for solubilization, stabilization and crystallization of membrane proteins" *Nature Methods*. 2010 Oct 31;(7):1003-1008. (*Co-Authored with Brian Kobilka, Nobel Prize in Chemistry 2012)

Pohl, J.; Chandra, R.; Corpuz G.; McNeal C. and Macfarlane R.D. "Hypertriglyceridemia and megacystis-microcolon-intestinal hypoperistalsis syndrome" *J. Pediatr. Gastroenterol. Nutr.* 2008 Oct; 47(5):507-13

Chandra, R. and Macfarlane, R.D. "Remnant Lipoprotein Profiling by CsBiEDTA Density Gradient Ultracentrifugation" *Analytical Chemistry*. 2006 Feb 1;78(3):680-5.

PEER REVIEWED GRANT PROPOSALS

R. Chandra, M. Larios-Sanz, G. Moreno, "WISE-ASCEND (Women in STEM Excellence – Advancing STEM Careers through Empowerment, Networks, and Discovery)," 2025 Clare Boothe Luce Program for Women in STEM Application (\$750,000 – Not Funded).

R. Chandra, A. Laganowsky, B. Wylie, "New frontiers in the chemical characterization of high-density lipoprotein complexes" WelchX Pilot Grant (\$100,000 – Not Funded).

M.A. Steiger, R. Chandra, J. A. Palasota, G. Smith, and O. Letko, "Departmental Research Grant," Grant No. AV-0024, Welch Foundation, 2024-2027 (\$165,000 – Funded).

R. Chandra and J.A. Splawn, "Request for No-Cost Extension for Award P120A200089," US Department of Education – Minorities in Science and Engineering Improvement Program, 2023-2024 (\$166, 562 remaining funds awarded).

R. Chandra, *R. Babu, *T. Nguyen, *C. Cardozo, *A. Marin, *C. Lubrano, *R. Nguyen, "Biochemistry Analytical Chemistry" Committee on Student Research, University of St. Thomas, 2023 (\$4,500– Funded).

S. Ghaoui, J. A. Palasota, J. Hollingsworth, R. Chandra, M.A. Steiger, and C. Young, "Departmental Research Grant," Grant No. AV-0024, Welch Foundation, 2021-2024 (\$135,000 – Funded).

R. Chandra, *N. Kong, N. Penaloza, A. Nguyen, and C. Cardozo, "Bioanalytical Chemistry Research Group," Committee on Student Research, University of St. Thomas, 2021 (\$2,000– Funded).

R. Chandra, "Lipoprotein Profiling for Cardiovascular Disease Risk Assessment," Henry Dreyfus Teacher-Scholar Awards Program, 2019 (\$75,000 – Not Funded).

J. A. Palasota, J. Clarage, R. Chandra, S. Ghaoui, J. Hollingsworth, E. Ledesma, B. Mellis, M. A. Steiger, and C. Young, "Departmental Research Grant," Grant No. AV-0024, Welch Foundation, 2018-2021 (\$120,000 – Funded).

R. Chandra, "HSI-STEM Proposal," UST HSI-STEM Project, US Department of Education HSI-STEM Grant, award numbers P031C160188 and P031C110128. 2015-2019 (\$25,000 – Funded)

R. Chandra, *N. Nguyen, *T.V. Ho, *N. Kong, *A. Nguyen, *N. Penaloza, "Committee on Student Research, University of St. Thomas, 2019 (\$2,000– Funded).

R. Chandra, *R. Heinz-Montoya, *N. Nguyen, *N. Kong, *A. Akhtar, *A. Nguyen, "Lipoprotein Profiling through HPLC Fluorescence Detection," Committee on Student Research, University of St. Thomas, 2018 (\$1,136.40– Funded).

R.Chandra and J. Hollingsworth, "2017 STEM Summer Camp," Charity Guild of Catholic Women, 2017 (\$11,500 – Funded)

R. Chandra, E. Nam, A. Simmons-Nout, M. Flagg, R. Rosell, "Pre-Proposal Inclusive Excellence," Howard Hughes Medical Institute (HHMI), 2017-2021 (\$1.5M – Not Funded).

R. Chandra, *A. Rasool, *A. Hernandez, *R. Heinz-Montoya, *N. Nguyen, "Presentation of Research Results at the National American Chemical Society Meeting," Committee on Student Research, University of St. Thomas, 2017 (\$1176.47 – Funded).

J. A. Palasota, J. Clarage, R. Chandra, S. Ghaoui, J. Hollingsworth, E. Ledesma, B. Mellis, M. A. Steiger, and C. Young, "Departmental Research Grant," Welch Foundation, 2016-2018 (\$70,000 – Funded).

R. Chandra and J. A. Palasota, "Metacognitive Focused Instruction in the General Chemistry Laboratory," Keck Foundation, 2016-2019 (\$250,000 – Not Funded).

M.Steiger, R. Chandra, S. Ghaoui, and C. Young, "CLICK: Crossover Learning to Improve Chemistry Knowledge," National Science Foundation, IUSE-Engaged Student Learning: Exploration, 2015-2017 (\$217,919 - Not Funded)

J. A. Palasota, J. Clarage, R. Chandra, S. Ghaoui, E. Ledesma, B. Mellis, M. A. Steiger, and C. Young, "Departmental Research Grant," Welch Foundation, 2015-2016 (\$35,000 – Funded).

R. Chandra, "Presentation of Research Results at the National American Chemical Society Meeting," Faculty Development Committee, University of St. Thomas, 2014 (\$1205.56 – Funded).

R. Chandra, *K. Garza, *S. Hameed, *J. Jurica, *C. Chidi, "Presentation of Research Results at the National American Chemical Society Meeting," Committee on Student Research, University of St. Thomas, 2014 (\$3492 – Funded).

PLATFORM PRESENTATIONS

"Ethical Use of AI in the Classroom": Richa Chandra; Title V CORE Grant Workshop, University of St. Thomas, Houston, TX; April 4, 2025.

"Oxidation Effects on Lipoproteins Measured by Dynamic Light Scattering": Richa Chandra; Graduate Seminar Series for Department of Biomedical Engineering, University of Houston, Houston, TX; September 27, 2024.

"Chemical Bioanalysis of Cardiovascular Disease Risk Factors," Richa Chandra; WelchX Collaboration Retreat: Soapbox Presentation, Austin, TX; June 19, 2024.

"Decoding the Lipid-Protein Interactions Affecting the Biophysical Properties of Native HDL," Richa Chandra, Arthur Laganowsky, Benjamin Wylie; WelchX Collaboration Retreat: Lightning Talk, Austin, TX; June 20, 2024.

"Our Gen Z Learners – Chemistry Edition," Richa Chandra; Department of Chemistry and Biochemistry, Department Meeting; University of St. Thomas, Houston, TX; September 5, 2023.

"Grow Your Ambition: Self-Advocate & Advance Yourself in STEM" Richa Chandra and Amber Miller: Department of

Physics and Engineering Guest Speaker Series, September 22, 2021.

Keynote Address: "Thrive $\leftrightarrow$ Strive: Bringing Equity and Equilibrium to STEM" Richa Chandra and Amber Miller: University of St. Thomas Research Symposium, April 22, 2021.

"Cool Landing and Full Student Engagement," Richa Chandra; Teach Online Workshop, University of St. Thomas, Houston, TX; January 22, 2021.

"Ready, Set, Go Online!" Richa Chandra; STEM Collaborative Webinar Series, University of St. Thomas, Houston, TX; August 7th and August 13th, 2020.

"Remnant Lipoprotein Size Distribution Profiling via Dynamic Light Scattering Analysis" Richa Chandra; President's Research and Scholarship Colloquium, University of St. Thomas, Houston, TX, October 27, 2015.

"Metabolic snapshots of triglyceride transport in human blood circulation: A diagnostic toolkit" Richa Chandra; Advances in Bioanalytical Chemistry Symposium, Division of Analytical Chemistry, 249th ACS National Meeting & Exposition, Denver, CO, March 23 and 24, 2015.

"Cardiovascular Chemistry: Oxidation of Triglyceride Rich Lipoproteins in Human Blood and The Role of Natural Product Antioxidants." Richa Chandra; Department of Chemistry and Biochemistry, Southwestern University, Georgetown, TX, November 15, 2012.

"The Theory and Practice of Indian Classical Music." Richa Chandra; Guest lecturer for the May Term Musical Acoustics Course; Department of Physics, Southwestern University, Georgetown, TX, May 22-23, 2012.

"Accessible New Amphiphiles for Solubilization, Stabilization and Crystallization of Membrane Proteins." Richa Chandra; Presented to the Welch Summer Scholars Program and the Department of Chemistry and Biochemistry, Southwestern University, Georgetown, TX, June 1, 2011.

"A New Career Trend: Hyphenated Professional Identities for Indian-Americans." Richa Chandra; Presented at the Professional Development Seminar for Network for Indian Professionals Austin, August 28, 2010.

"The Use of Fluorescence Resonance Energy Transfer to Study Protein-Protein Interactions." Richa Chandra; Presented for Student Seminar Series, Texas A&M University, College Station, TX, January 26, 2004.

OTHER PRESENTATIONS & MEDIA APPEARANCES

Seasons 1-5 (current): 90 published episodes, WISEcast, the Podcast for Women in STEM and Education, <https://podcasters.spotify.com/pod/show/thewisestwomen>; Co-Hosts: Chandra, Richa and Miller, Amber, Founded: August 2020.

"ZnSe Quantum Dot-Based Biosensing for Accurate Quantification of LDL and HDL Cholesterol Levels via Fluorescence Intensity," Rojan Babu, Tatiana Kawula, Edgardo Giron; Chandra, Richa; Poster Presentation: University of St. Thomas Research Symposium, April 25, 2024.

"Fatty Acid Analysis using Transmission FTIR Instrumentation and Computational Chemistry Software," Margaret Edozie, Rijja Rasool, Wendi Whitaker, Dr. Gregory Smith, and Dr. Richa Chandra; Poster Presentation: University of St. Thomas Research Symposium, April 25, 2024.

"Density Gradient Ultracentrifugal Lipoprotein Profiling," Christopher Lubrano, Ryan Nguyen, Nicholas Le; Richa Chandra; Poster Presentation: University of St. Thomas Research Symposium, April 25, 2024.

"Direct Quantification of Human Lipoproteins through ZnSe Quantum Dot Biosensors," Rojan Babu, Thanh Nguyen, Haley Keister, Ali S. Rad, Richa Chandra, Triantafillos J. Mountziaris; Poster Presentation: ACS National Meeting & Exposition, New Orleans, Louisiana, Mar. 17-21, 2024.

"Density gradient Ultracentrifugal Lipoprotein Profiling," Thanh Nguyen, Richa Chandra; Poster Presentation: ACS National Meeting & Exposition, Indianapolis, Indiana, Mar. 26-30, 2023.

"Lipoprotein profiling via fluorescence anion-exchange high performance liquid chromatography," Cameron Cardozo, Richa Chandra; Poster Presentation: ACS National Meeting & Exposition, Indianapolis, Indiana, Mar. 26-30, 2023.

"Gold nanoparticle-based ultrasensitive lateral flow immunoassay for quantitative analysis of lipoproteins," Rojan Babu, Richa Chandra; Poster Presentation: ACS National Meeting & Exposition, Indianapolis, Indiana, Mar. 26-30, 2023.

"Anion Exchange HPLC of Lipoproteins" *Cardozo, Cameron; Chandra, Richa; Poster Presentation: University of St. Thomas Research Symposium, April 28, 2022.

"Oxidation Effects on Lipoproteins Measured By Dynamic Light Scattering" *Agreda, Gustavo; Chandra, Richa; Oral Presentation: University of St. Thomas Research Symposium, April 29, 2022.

"Serum Lipoprotein Profiling Via Density Gradient Ultracentrifugal Separation" *Hyder, Sumbullah; Marin, Ana; Chandra, Richa; Poster Presentation: University of St. Thomas Research Symposium, April 28, 2022.

"Density gradient Ultracentrifugal Lipoprotein Profiling," Thanh Nguyen, Ana Marin, Richa Chandra; Poster Presentation: ACS National Meeting & Exposition, San Diego, California, Mar. 20-24, 2022.

"Oxidation Effects on Lipoproteins Measured by Dynamic Light Scattering," Gustavo Agreda, Richa Chandra; Poster Presentation: ACS National Meeting & Exposition, San Diego, California, Mar. 20-24, 2022.

"Anion-Exchange HPLC of human serum with fluorescent probe as a potential diagnostic tool for cardiovascular disease," Cameron Cardozo, Andrea Castillo, Richa Chandra; Poster Presentation: ACS National Meeting & Exposition, San Diego, California, Mar. 20-24, 2022.

"STEM, Innovation, and Entrepreneurship" Chandra, Richa. Webinar with StudentPort: <https://www.youtube.com/watch?v=MYF3v5CgLOs&t=2708s>, February 6, 2021

"International Women's Day Interview" Chandra, Richa and Miller, Amber; Future STEM Leaders (www.futurestemleaders.org), March 8, 2021.

"STEMing Out" Chandra, Richa; Podcast Guest for *Open Windows Culture Podcast*, Season 3, Episode 6, July 12, 2021.

"Isoelectric Focusing of Oxidized High-Density Lipoproteins" *Kong, Nickolette; Chandra, Richa; Oral Presentation: University of St. Thomas Research Symposium, April 23, 2021.

"Dynamic Light Scattering Analysis of Oxidized High-Density Lipoprotein" *Penaloza, Natalia; Nguyen, Angela B.; Chandra, Richa; Oral Presentation: University of St. Thomas Research Symposium, April 23, 2021.

"Fluorescence quantitation of human lipoproteins through anion exchange HPLC" *Montoya, Rafael H.; *Nguyen, Nhi; Chandra, Richa; Poster Presentation: 255th ACS National Meeting & Exposition, New Orleans, Louisiana, Mar. 18-22, 2018.

"Enhanced antioxidant activity in hypertriglyceridemic serum measured through a ferric reduction assay" *Rasool, Ayesum; Chandra, Richa; Ghaoui, Sarah; Poster Presentation: 255th ACS National Meeting & Exposition, New Orleans, Louisiana, Mar. 18-22, 2018.

"Remnant lipoprotein size distribution profiling via dynamic light scattering analysis" *Hernandez, Ana; Chandra, Richa; Mellis, Birgit; Platform Presentation: 255th ACS National Meeting & Exposition, New Orleans, Louisiana, Mar. 18-22, 2018.

"Fluorescence quantitation of human lipoproteins through anion exchange HPLC" *Montoya, Rafael H.; *Nguyen, Nhi; Chandra, Richa; Poster Presentation: University of St. Thomas Research Symposium, April 12, 2018.

"Enhanced antioxidant activity in hypertriglyceridemic serum measured through a ferric reduction assay" *Rasool, Ayeshum; Chandra, Richa; Ghaoui, Sarah; Poster Presentation: University of St. Thomas Research Symposium, April 12, 2018.

"Remnant lipoprotein size distribution profiling via dynamic light scattering analysis" *Hernandez, Ana; Chandra, Richa; Mellis, Birgit; Platform Presentation: University of St. Thomas Research Symposium, April 12, 2018.

"Two-dimensional analysis of apolipoproteins using gel electrophoresis and SDS-PAGE" *Nguyen, Ngoc Minh; Chandra, Richa; Platform Presentation: 251st ACS National Meeting & Exposition, San Francisco, California, April 3, 2017.

"High Performance Liquid Chromatography Measurement of Lipoproteins," *Hernandez, Ana; *Heinz-Montoya, Rafael; *Jimenez, Francisco; Chandra, Richa; University of St. Thomas Research Symposium, April 6, 2017

"Cardiovascular Chemistry: Quantifying Antioxidant Power," *Rasool, Ayeshum; *Zeibak, Stephanie; *Schmidt, Hannah; Chandra, Richa; University of St. Thomas Research Symposium, April 6, 2017

"Remnant Lipoprotein Size Distribution Profiling via Dynamic Light Scattering Analysis," *Nguyen, Mia N.; Mellis, Birgit; Chandra, Richa; University of St. Thomas Research Symposium, April 6, 2017

"Bioanalytical Method Development: Cardiovascular Chemistry," *Hernandez, Ana; *Pham, Khoa; *Ranna, Anna; Singh, Jyothi; Cherif, Abdel; Chandra, Richa; HSI-STEM Research Symposium, September 23, 2016.

"Remnant Lipoprotein Size Distribution Profiling via Dynamic Light Scattering Analysis," *Garza, Kyana; Chandra, Richa; Platform Presentation: University of St. Thomas Research Symposium, April 8, 2016.

"Evaluation of Antioxidant Protection in Human Serum Via a Ferric Reduction Assay" *Chidi, Chinanu and Chandra, Richa; Platform Presentation: University of St. Thomas Research Symposium, April 8, 2016.

"Preparative HPLC for Serum Lipoproteins," *Hernandez, Ana; *Dang, Tony; Chandra, Richa; Poster Presentation: University of St. Thomas Research Symposium, April 8, 2016.

"Remnant Lipoprotein Size Distribution Profiling via Dynamic Light Scattering Analysis" *Garza, Kyana; Chandra, Richa; Platform Presentation: 251st ACS National Meeting & Exposition, San Diego, California, March 13-17, 2016.

"Remnant Lipoprotein Size Distribution Profiling of Serum Samples of Varying Metabolic Disorders via Dynamic Light Scattering Analysis" *Hameed, Samee; *Jurica, James; Chandra, Richa; Poster: 251st ACS National Meeting & Exposition, San Diego, California, March 13-17, 2016.

"Evaluation of Antioxidant Protection in Human Serum Via a Ferric Reduction Assay" *Chidi, Chinanu; Chandra, Richa; Poster: 251st ACS National Meeting & Exposition, San Diego, California, March 13-17, 2016. (*denotes undergraduate students)

"Bioanalytical Method Development in Cardiovascular Chemistry," *Chidi, Chinanu; *Garza, Kyana; *Motlani, Sophia.; *Moore, Nathaniel.; Shaikh, S.; Mittal, C.; Chandra, R.; HSI-STEM Research Symposium, September 25, 2015

"Preparative Isolation and Characterization of the Triglyceride Rich Lipoprotein Subclass via High-Speed Centrifugal Flotation and Dynamic Light Scattering Analysis" *Garza, Kyana; *Chidi, Chinanu; Chandra, Richa; Poster: University of St. Thomas Research Symposium, April 10, 2015.

"Antioxidant Protection in Human Blood Serum of Varying Triglyceride Content Utilizing a Ferric Reduction Assay", *Chidi, Chinanu; *Garza, Kyana; and Chandra, Richa; Poster: University of St. Thomas Research Symposium, April 10, 2015.

"Differential remnant lipoprotein profiling via immunoseparation and dynamic light scattering analysis" *Hameed, Samee; *Jurica, James; Chandra, Richa; Poster: 249th ACS National Meeting & Exposition, Denver, CO, March 23 and 24, 2015, ANYL-89.

"Preparative isolation and characterization of the triglyceride rich lipoprotein subclass via high-speed Centrifugal Flotation and Dynamic Light Scattering Analysis" *Garza, Kyana; *Chidi, Chinanu; Chandra, Richa; Poster: 249th ACS National Meeting & Exposition, Denver, CO, March 23 and 24, 2015, ANYL-112.

"Antioxidant protection in human blood plasma of varying triglyceride content utilizing a ferric reduction assay" *Chidi, Chinanu; *Garza, Kyana; Chandra, Richa; Poster: 249th ACS National Meeting & Exposition, Denver, CO, March 23 and 24, 2015, AGFD-120.

"Susceptibility and analysis of triglyceride rich lipoproteins in human blood to chemical oxidative stress" *Poi, Tyler; *Williams, Tim; Chandra, Richa; Poster: 245th ACS National Meeting & Exposition, New Orleans, LA, United States, April 7-11, 2013, CHED-803.

"Density Profiling of Triglyceride Rich Lipoproteins and Their Remnants." Richa Chandra; Poster: XIV International Symposium on Atherosclerosis, Fiera di Roma, June 18-22, 2006, Rome, Italy.

"The Analysis of Triglyceride-Rich Lipoproteins in Human Serum for Clinical Studies." Richa Chandra and Ronald D. Macfarlane; Presented at Student Research Week, Texas A&M University, College Station, TX, March 29, 2005 (*1st Place, Life Sciences Category*).

"The Characterization and Detection of Remnant Lipoproteins in Human Serum." Richa Chandra and Ronald D. Macfarlane; Presented at Industry-University Cooperative Chemistry Program (IUCCP) Symposium, Texas A&M University, College Station, TX, October 20, 2004.

"The Characterization and Detection of Remnant Lipoproteins in Human Serum." Richa Chandra and Ronald D. Macfarlane; Presented at Pathways in Research Symposium, Texas A&M University, Corpus Christi, TX, October 16, 2004 (*2nd Place, Graduate Category*).

PROFESSIONAL SERVICE

Vice-President of Academic Affairs (VPAA) Search Committee, University of St. Thomas, Houston, TX	2026
Chair of Faculty Search Committee for Organic Chemistry, University of St. Thomas, Houston, TX	2026
Member of Promotion and Tenure Committee, University of St. Thomas, Houston, TX	2026-ongoing
Member of Special Committee on Tenure-Track Conversion, University of St. Thomas, Houston, TX	2025-2026
Chair of Faculty Search Committee for Biochemistry, University of St. Thomas, Houston, TX	2025
Dissertation Committee Member, Cullen College of Engineering, University of Houston, TX	2024, 2025
Project Director: US Dept. of Ed., Minorities in Science & Engineering Improvement Program	2022-2024
Director of ACS-GHS (American Chemical Society Greater Houston Section) Executive Committee	2022-2024
Faculty Grievance Committee, University of St. Thomas, Houston, TX	2022-2025

Faculty Search Committee for Chemical Engineering, University of St. Thomas, Houston, TX	2022
Faculty Search Committee for Biochemistry, University of St. Thomas, Houston, TX	2022
Faculty Search Committee for Physical Chemistry, University of St. Thomas, Houston, TX	2022
Faculty Search Committee for Chemical Engineering, University of St. Thomas, Houston, TX	2021
Article Reviewer for <i>Food and Function</i> (<u>Royal Society of Chemistry</u>)	2021
Online Teaching Coach, University of St. Thomas, Houston, TX	2020-Present
Academic Calendar Committee, University of St. Thomas, Houston, TX	2018-Present
Core Curriculum Workgroup, University of St. Thomas, Houston, TX	2018-2021
Empower Group, Women's Leadership Initiative in STEM, University of St. Thomas, Houston, TX	2018-2020
OpenStax Faculty Advisory Board, Rice University, Houston, TX	2017-2019
Strategic Thinking Oversight Committee, University of St. Thomas, Houston, TX	2017-2018
Health Professions Advisor, University of St. Thomas, Houston, TX	2016-Present
First Year Experience Advisor, University of St. Thomas, Houston, TX	2015-Present
Dean of Arts and Sciences Search Committee, University of St. Thomas, Houston, TX	2015-2016
Founder: Junior Faculty Group, Initiative for University Excellence, University of St. Thomas	2015-2016
Faculty Search Committee for the Dept. of Biology, University of St. Thomas, Houston, TX	2015
Reviewed article for <i>Analytical Chemistry</i> , invitation from Dr. Catherine Fenselau, Associate Editor	2015
Chemical Safety Committee, University of St. Thomas, Houston, TX	2014-2018
Faculty Search Committee, Dept. of Chemistry and Physics, University of St. Thomas, Houston, TX	2014
Founder of UST-STEM Junior Faculty Research Group, University of St. Thomas, Houston, TX	2014-2016
American Chemical Society Project SEED Mentor, University of St. Thomas, Houston, TX	Summer 2014
Parental Leave Task Force (Faculty Senate), University of St. Thomas, Houston, TX	2014-2015
Faculty Advisor to ACS Student Chapter, Southwestern University, Georgetown, TX	2012-2013
Peer Teaching Network, Southwestern University, Georgetown, TX	2012-2013
Junior Faculty Research Group, Southwestern University, Georgetown, TX	2012-2013
Guest Lecturer, Musical Acoustics Course, Southwestern University, Georgetown, TX	2012
Site Leader for "Be The Change", National Day of Service, Austin, TX	2011
Beginner Teacher Induction & Mentoring Program, Austin Community College/Pflugerville ISD	2011-2012

AFFILIATIONS AND AWARDS

Saint Edith Stein Excellence in Research Award Recipient, University of St. Thomas, Houston, TX	2025-2026
Saint Edith Stein Excellence in Research Award Nominee, University of St. Thomas, Houston, TX	2022-2023
TOAST (Teach Online Award to Spur Transformation), University of St. Thomas	2020-2021
Saint Thomas Aquinas Excellence in Teaching Award Nominee, University of St. Thomas, Houston, TX	2020-2021
The Association of Former Students, Texas A&M University	2010-Present
American Chemical Society	2006-Present
Advisor of the Year Award Nominee, Health Occupations Students of America (HOSA)	2014-2015
2012 Southwestern University Teaching Award Finalist	2012
1 st Place, Life Sciences Category, Student Research Week, Texas A&M University	2005
2 nd Place, Graduate Category, Pathways in Research Symposium, Texas A&M University	2004
Dean's Award for Academic Excellence, Texas A&M University, College Station, TX	2002
<i>Phi Lambda Upsilon</i> (Chemistry Honor Society), Texas A&M University	2005

COURSES AND TEACHING INTERESTS

Analytical Chemistry & Advanced Analytical Chemistry
 General Chemistry & Organic Chemistry
 Research Methods and Development
 Scientific Communication
 Organic Chemistry
 Bioanalytical Chemistry
 Chemical Education