

CURRICULUM VITAE

Cecelia C. Yates, PhD

Associate Professor

Department of Health Promotion and Development

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EDUCATION AND TRAINING

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|-------------|--|
| 2001 | B.S. Biology, Minor in Chemistry, Tuskegee University, Tuskegee, Alabama |
| 2010 | PhD Pathology/Integrative Bioscience, University of Pittsburgh School of Medicine/Tuskegee University, Tuskegee, Alabama |
| 2010 – 2012 | Post-Doctoral Fellow, Department of Pathology, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania |

APPOINTMENTS AND POSITIONS

Academic

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| 2012 – 2018 | Assistant Professor, Department of Health Promotion and Development, School of Nursing, University of Pittsburgh |
| 2014 – 2018 | Assistant Professor, Department of Pathology, School of Medicine University of Pittsburgh, Pittsburgh, Pennsylvania |
| 2015 – 2018 | Assistant Professor, McGowan Institute for Regenerative Medicine, University of Pittsburgh, Pittsburgh, Pennsylvania |
| 2018 – Present | Associate Professor (Tenured) , Department of Health Promotion and Development, School of Nursing, University of Pittsburgh |
| 2018 – Present | Associate Professor , Department of Pathology, School of Medicine University of Pittsburgh, Pittsburgh, Pennsylvania (secondary appointment) |
| 2018 – Present | Associate Professor , McGowan Institute for Regenerative Medicine, University of Pittsburgh, Pittsburgh, Pennsylvania (secondary appointment) |

Non-Academic

- | | |
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| 2001 – 2004 | Sentient Foods Colors and Technology Analytical Chemist, St. Louis, Missouri |
| 1997 – 1998 | Center for Disease Control Intern, Atlanta, Georgia |

CERTIFICATION AND ADVANCED TRAINING

- 2010 The Business of Innovation Commercialization, Academic Entrepreneurship, Katz Graduate School of Business, University of Pittsburgh, Pittsburgh, Pennsylvania
- 2012 American Association of Immunologists, Immunology Introduction Course, University of Pittsburgh, Pittsburgh, Pennsylvania
- 2014 American Association of Immunologists, Immunology Advance Course, University of Pittsburgh, Pittsburgh, Pennsylvania



EDITORIAL BOARDS

- 2014 – 2017 **Member:** American Journal of Pathology – Elsevier-Journals Strategy Committee (This committee advises the editors and publishers of the journal.)
- 2016 – 2017 **Section Editor:** Current Pathobiology Reports – Wound Healing Section
- 2016 – Present **Editorial Board Member:** American Journal of Pathology

ADVISORY BOARDS

- 2014 – 2017 American Society of Investigative Pathology grant application (**R13 Awarded 2015 and 2016**)
- 2016 – Present Advisory Board and Task Force for Strategic Planning, American Journal of Pathology, and Molecular Diagnostics

CONSULTATION

- 2012 – Present **Consultant:** Wright Therapy – pressure ulcers gradient technology
- 2012 – Present **Consultant:** Federation of American Societies for Experimental Biology-Minority Access to Research Careers (FASEB-MARC)
- 2015 – Present **Co-founder and Scientific Advisor Ocugenix LLC:** Developmental stage therapeutics company targeting macular degeneration.
- 2015 – Present **Co-founder Curostem™:** Cellular bio-band aid therapy for chronic wounds treatment. 
- 2018 – Present **Founder FibroKine™ LLC:** Pittsburgh based start-up for targeted peptide therapy for fibrosing diseases. 

HONORS

- 2006 Wound Healing Society Young Investigator Award Finalist, Scottsdale, Arizona
- 2006 Graduate Presentation (1st Prize), Department of Pathology, University of Pennsylvania, Philadelphia, Pennsylvania
- 2007 European Tissue Repair Society Young Investigator Award, South Hampton, United Kingdom
- 2008 FASEB-MARC Minority Trainee Travel Award, San Diego, California

2008	ASIP's 2008 Experimental Pathologist-in-Graduate Training Award, San Diego, California
2008	Educational Scholar Award at the XXIX Congress of the Italian Society of Pathology, Cosenza, Italy
2009	ASIP Educational Fund Scholar, New Orleans, Louisiana
2010	Post-doctoral Award (1 st Prize), Department of Pathology, University of Pittsburgh, Pittsburgh, Pennsylvania
2011	ASIP 2011 Excellence in Science Award, Washington, District of Columbia
2013	Immunohistochemistry and Microscopy Course (IHCM) Faculty Travel Award, Martha's Vineyard, Massachusetts
2013	AAI 2013 Annual Meeting Presentation Award, Honolulu, Hawaii
2013	Clinical Translational Science Institute Career Education and Enhancement for Health Care Research Diversity Scholar, University of Pittsburgh, Pittsburgh, Pennsylvania
2014	Keystone Symposia Early Career Investigator Award (ECITA), Santa Fe, New Mexico
2015	ASIP Junior Faculty Award, American Society for Investigative Pathology, Baltimore, Maryland
2016	University of Pittsburgh Innovator Awardee, University of Pittsburgh, Pittsburgh, Pennsylvania
2017	University of Pittsburgh Innovator Awardee, University of Pittsburgh, Pittsburgh, Pennsylvania

PUBLICATIONS

Citation indices	All	Since 2013
Citations	970	703
h-index	17	17
i10-index	20	20

Refereed Articles (All-Data Based)

1. Bodnar R.J., Yates C.C., Wells A. IP-10 blocks VEGF-induced endothelial cell motility and tube formation via inhibition of calpain. *Circulation Research*. 2006 Mar 17; 98(5):617-25. PMID: 16484616
2. Yates C.C., Whaley D., Kulasekeran P., Hancock W.W., Lu B., Bodnar R.J, Newsome J., Hebda P.A., Wells A. Delayed and Deficient Dermal Maturation in Mice Lacking the CXCR3 ELR-negative CXC Chemokine Receptor. *American Journal of Pathology*. 2007 Aug; 171(2):484-95. PMID: 17600132
3. Yates C.C., Whaley D., Babu R., Zhang J., Beckman E., Pasculle W.A., Wells A. Multifunctional polymer-based gel accelerates wound healing in full thickness bacteria-contaminated mouse models. *Biomaterials*. 2007 Sep; 28(27):3977-86. PMID: 17561250

4. **Yates C.C.**, Whaley D., Yen A.Y., Kulasekeran P., Hebda P. A., Wells A. ELR-negative CXC chemokine CXCL11 (IP-9/I-TAC) facilitates dermal and epidermal maturation during wound repair. *American Journal of Pathology*. 2008 Sep; 173(3):643-52. PMID: 18669615
5. **Yates C.C.**, Whaley D., Hooda S., Hebda P.A., Bodnar R., Wells A. CXCR3^{-/-} Mice display a dysfunction in basement membrane remodeling and delay in re-epithelialization during wound healing. *Wound Repair Regeneration*. 2009 Jan-Feb; 17(1):34-41. PMID: 19152649
6. Bodnar R.J., **Yates C.C.**, Rodgers M.E., Du X., Wells A. ELR-negative chemokine IP-10/CXCL10 induces dissociation of newly-formed vessels secondary to calpain cleavage of β 3 integrin. *Journal of Cell Science*. 2009 Jun 15; 122(Pt 12):2064-77. PMID: 19470579
7. **Yates C.C.**, Krishna P., Whaley D., Bodnar R., Wells A. Lack of CXC chemokine receptor 3 signaling leads to hypertrophic and hypercellular scarring. *American Journal Pathology*. 2010 Apr; 176(4):1743-55. PMID: 20203286
8. **Yates C.C.**, Whaley D.L., Wells A. Transplanted fibroblasts prevent dysfunctional repair in a murine CXCR3⁻ deficient scarring model. *Cell Transplantation*. 2012 Jan; (epub). PMID: 22236446
9. ***Yates C.C.**, Rogers M., Wells A., Jaynes J., Bodnar R.J., Turner T. IP-10 Fragment is the Functional Motif that Blocks Endothelial Cell Motility and Vessel Formation. *PLoS One*. 2012 Jul 16; 7(7): e40812. PMID: 22815829
10. Rodrigues M., **Yates C.C.**, Griffin L., Wells A. The matrikine Tenascin-C protects multipotential stromal cells/mesenchymal stem cells from death cytokines such as FasL. *Tissue Engineering*. 2013 Sep; 19(17-18):1972-1983. PMID: 23541003
11. Xu L., **Yates C.C.**, Lockyer P., Xie L., Bevilacqua A., He J., Lander C., Patterson C., Willis M.S. MMI-0100 inhibits cardiac fibrosis in myocardial infarction by direct actions on cardiomyocytes and fibroblasts via MK2 inhibition. *Journal of Molecular Cellular Cardiology*. 2014 Dec; 77:86-101. PMID: 25257914
12. Quintana M.T., He J., Sullivan J., Grevengoed T., Schisler J., Han Y., Hill J.A., **Yates C.C.**, Stansfield W.E., Mapanga R.F., Essop M.F., Muehlbauer M.J., Newgard C.B., Bain J.R., Willis M.S. Muscle ring finger-3 protects against diabetic cardiomyopathy induced by a high fat diet. *BMC Endocrine Disorders*. 2015 Jul 28; 15:36. PMID: 26215257
13. He J., Quintana M.T., Sullivan J., L. Parry T., J. Grevengoed T., Schisler J.C., Hill J.A., **Yates C.C.**, Mapanga R.F., Essop M.F., Stansfield W.E., Bain J.R., Newgard C.B., Muehlbauer M.J., Han Y., Clarke B.A., Willis M.S. MuRF2 regulates PPAR γ 1 activity to protect against diabetic cardiomyopathy and enhance weight gain induced by a high fat diet. *Cardiovascular Diabetology*. 2015 Aug 5; 14:97. PMID: 26242235
14. He J., Quintana M.T., Sullivan J., L. Parry T., J. Grevengoed T., Schisler J.C., Hill J.A., **Yates C.C.**, Mapanga R.F., Essop M.F., Stansfield W.E., Bain J.R., Newgard C.B., Muehlbauer

M.J., Han Y., Clarke B.A., Willis M.S. Cardiomyocyte-specific Human Bag3 P209L Expression Induces Mitochondrial Fragmentation, BAG3 Haploinsufficiency, and Activates p38 Signaling. *Am J Pathol.* 2016 Aug; 186(8):1989-2007. PMID: 27321750

15. Nuschke A., Rodrigues M., Rivera J., **Yates C.C.**, Whaley D., Stolz D., Griffith L., Wells A. EGF tethered to β -tricalcium phosphate bone scaffolds via a high affinity binding peptide enhances survival of human mesenchymal stem cells/multipotent stromal cells (MSC) in animal models. *Stem Cells Translational Medicine.* 2016 Nov; 5(11):1580-86. PMID: 27400798

16. **Yates C.C.***, Nuschke A., Rodrigues M., Whaley D., Dechant J.J., Taylor D.P., Wells A. Mesenchymal stem cells survival and healing capacity improved by polymeric wound gel with matrikine. *Cell Transplant.* 2017 Jan 24; 26(1):103-13. PMID: 27452449

17. Hachim D., LoPresti S.T., **Yates C.C.**, Brown B.N. Shifts in macrophage phenotype at the biomaterial interface via IL-4 eluting coatings are associated with improved implant integration. *Biomaterials.* 2017 Jan; 112:95-107. PMID: 27760399

18. Satish L., Gallo P.H, Sandra Johnson S., **Yates C.C.**, Kathju S. Local application of probiotic bacteria mitigates scar formation after burn injury and infection. *Surgical Infections* *Surgical Infections.* 2017 Feb 1; 18(2)119-27. PMID: 27788042

19. **Yates C.C.***, Nuschke A., Rodrigues M., Johnson Whaley D., Wells A. Multipotent stromal cells/mesenchymal stem cells and fibroblasts combine to minimize skin hypertrophic scarring. *Stem Cell Research & Therapy.* 2017 Sep 5; 8(1):193. PMID: 28874184

20. Mahoney C.M., Imbarlina C., **Yates C.C.**, Marra K.G. Current Therapeutic Strategies for Adipose Tissue Defects/Repair Using Engineered Biomaterials and Biomolecule Formulations. *Frontiers in Pharmacology.* 2018 May 17; 9:507. PMID: 29867506

21. Johnson Z.I., Jones J.D., Mukherjee A., Ren D., Feghali-Bostwick C., Conley Y.P., **Yates C.C.** Novel classification for global gene signature model for predicting severity of systemic sclerosis. *PLoS One.* 2018 Jun 20; 13(6):e0199314. PMID: 29924864

22. Mota R., Parry T.L., **Yates C.C.**, Qiang Z., Eaton S.C., Mwiza J.M., Tulasi D., Schisler J.C., Patterson C., Zaglia T., Sandri M., Willis M.S. Increasing Cardiomyocyte Atrogin-1 Reduces Aging-Associated Fibrosis and Regulates Remodeling in Vivo. *The American Journal of Pathology.* 2018 Jul; 188(7):1676-92. PMID: 29758183

***Corresponding Author**

Books Edited

1. *Fibrosis in Disease – An Organ-Based Guide to Disease Pathophysiology and Therapeutic Considerations.* Edited by Willis M.S., **Yates C.C.**, Schisler J.C. Springer Nature; 2018.

Book Chapters

1. J. Frederick, R. Mitchell, **C. Yates**: Chapter 3: Tissues, the Extracellular Matrix, and Cell-Biomaterial Interactions. In: Wagner, Saklyama-Elbert, Zhang, Yaszemski, eds. *Biomaterials Science: Introduction to Materials in Medicine*. 4th ed. Academic Press Elsevier. -pending

Reviews, Invited Published Papers, Proceedings

1. **Yates C.C.**, Bodnar R.J., Wells A. Matrix control of scarring. Cellular and Molecular Life Sciences. 2011 Jun; 68(11):1871-81. PMID:21390544

2. ***Yates C.C.**, Hebda P. A., Wells A. Skin wound healing and scarring: fetal wounds and regenerative restitution. Birth Defects Research Part C: Embryo Today: Reviews. 2013 Dec; 96(4):325-33. PMID:24203921

3. Wells A, Nuschke A, **Yates C.C.** Skin tissue repair: Matrix microenvironmental influences. Matrix Biology. 2016 Jan; 49:25-36. PMID: 26278492

4. Bodnar R.J., Satish L., **Yates C.C.**, Wells A. Pericytes: A newly recognized player in wound healing. Wound Repair and Regeneration. 2016 Mar; 24(2):204-14. PMID: 26969517

PATENTS AND TRADEMARKS

1. A. Wells, **C.C. Yates**, D. Taylor (2013) Cell-Based Compositions, Cell-Based Bandage Devices and Systems and Methods of Treatment Therewith. United States Application #2014/020631.

2. **C.C. Yates**, A. Wells, T. Turner, J. Jaynes (Granted: May 27, 2014) Chemokine Derived Peptides and Uses for Chronic Wound and Angiogenesis Inhibition Treatments. United States 8734775.

3. A. Wells, **C.C. Yates**, J.S. Schuman (Granted: November 10, 2015) Activators of CXCR3 for the Treatment of Angiopathies in the Eye. United States 9,180,167.

4. A. Wells, **C.C. Yates**, J.S. Schuman (Granted: September 27, 2016) Activators of CXCR3 for the Treatment of Angiopathies in the Eye. United States 9,452,200.

5. **C.C. Yates**, M. Willis, R.J. Bodnar, J. Jaynes (2017) Small Peptide Antagonists Block CXCL10-CXCR3 Signaling and Cardiac Disease Cellular Function. United States Application #62/650,719

6. **C.C. Yates**, J. Jaynes, Z.I. Johnson (2017) Use of chemokine-mimetic small peptides for personalized treatment of tissue fibrosis. United States Application #62/662,987

7. **C.C. Yates**, J. Jaynes, M. Willis, Z.I. Johnson (2017) CXCR3 agonist peptides for treatment of cardiovascular disease. United States Application #62/663,003

8. A. Wells, **C.C. Yates**, J.S. Schuman (Granted: January 23, 2018) Activators of CXCR3 for the Treatment of Angiopathies of the Eye. United States 9,872,889.

9. **C.C. Yates**, Z.I. Johnson (Filed: February 14, 2018) FibroKine™ Peptides – Trademark. Serial number: 87797336.

10. **C.C. Yates**, A. Wells, J.S. Schuman, I. Conner (Granted: February 20, 2018) Goblet Cell Replacement Therapy. United States 9,895,419.

11. **C.C. Yates**, J. Jaynes, T. Corcoran, Z.I. Johnson (2018) Inhaled delivery of FibroKine™ Peptides for targeted anti-fibrotic therapy.

RESEARCH

Ongoing Research Support

NINR (1R01NR016436) (PI: Wang, Cornell | PI: Yates, UPitt) 7/22/16 – 4/30/21

Extended release of bioactive factors provides for greater patient autonomy

The overarching goal of this translational study is to advance nursing science and the wound care field by developing effective growth factor application therapies to reduce healthcare cost and improve both self-management options and the quality of life for patients with chronic wounds. The Yates lab role includes experimental involvement of testing the molecular and cellular aspect of the growth factor application therapies. There is **no overlap in aims, target molecules, molecular processes, or endpoints the current proposal.**

NIH (1R01AR068317) (PI: Yates, UPitt) 5/24/16 – 4/30/19

Genomics of variability in progression and severity of fibrosis

The major goal of this project is to (1) elucidate key molecular pathways driving the progression of fibrosis in Scleroderma, (2) identify therapeutic targets to improve outcomes and fibrosis related symptoms, and (3) explore the genes in the chemokine pathway that differentiate severity of fibrosis in SSc using prediction modeling and apply high-throughput genomic technologies. There is **no overlap with the current grant.**

NIGMS (1R01GM63569) (PI: Wells, UPitt) 1/1/15 – 11/30/18

Dermal-epidermal communication during wound healing

The major goal of this project is to determine the role of key matrix proteins in educating the wound to avoid scarring and promote quiescence after healing. The Yates lab role includes experimental involvement of the design and effectuation of vivo wounding cellular transplantation studies aimed at deciphering cell-matrix interactions. My role as a co-Investigator is to provide insights into the interpretation of discovered mechanisms as well as mentor graduate students and postdoctoral fellows working on this proposal. There is **no overlap in aims, target molecules, molecular processes, or endpoints with the current proposal.**

Chancellor's Innovation Commercialization Funds Award (PI: Yates) 2/01/18 – 12/30/18

The overarching goal of this proposal is to improve the development of anti-fibrotic peptides which has the potential to inhibit IPF through an aerosol inhalation delivery mechanism. There is **no overlap in aims, target molecules, molecular processes, or endpoints the current proposal.**

Center for Medical Innovation Early Stage Seed Grant 1/01/18 – 12/31/18

FibroKine: CXCL10 Biomimetic Peptides for Treatment of Pulmonary Fibrosis

The overarching goal of this proposal is to development on an inhaled aerosol delivery system that will achieve target organ specificity and efficient FibroKine delivery to the lung. This will specifically aid patients who suffer from Pulmonary Fibrosis.

NIH/LRP (L60 MD009870) (PI: Yates) 9/01/15 – 8/31/19

African Americans with Systemic Sclerosis Heterogeneity

The major goal of this project is yield key differential expressed genes involved in the switch between inflammation and repair that leads to fibrosis in African Americans. There is **no overlap with the current grant.**

Completed Research Support

NIH/NIGMS -1R01GM063569-03(National Institute of Health Minority Supplement)

Dermal-Epidermal Communication during Wound Healing" supplement for minority training.

PI: Yates C.C. supplement of R01-parent grant

NIH/NIGMS-FASEB-MARC Postdoctoral and Professional Development & Enrichment Award

Correction of Fibroblast Dysfunctional Repair in Skin Scarring

PI: Yates C.C. Funding period – 9/1/11-9/1/12

Internal-University of Pittsburgh (Nursing Genomic Hub)

Gene Expression Switch in Skin Fibrosis

The major goal of this pilot study is to yield key differential expressed genes involved in the switch between inflammation and repair that leads to fibrosis.

PI: Yates C.C. Funding Period – 6/1/13-5/31/14

Career Education and Enhancement for Health Care Research Diversity Program

Chemokine Matrix Regulation of Dermal Fibrosis

2013-2014:

Center for Research and Evaluation

Epigenetic Control of ECM Compliance in Skin Fibrosis

PI: Yates CC- Funding Period – 6/1/13-5/31/14

Internal- University of Pittsburgh School of Nursing (Center for Research & Evaluation)

Epigenetic Control of ECM Compliance in Skin Fibrosis

The major goal of this pilot study is to establish an animal model to assess the genetic and epigenetic changes that occur during varies stages of fibrosis.

PI: Yates CC Funding Period – 12/1/13-4/31/16

EDUCATIONAL OR TRAINING GRANTS

PI: Catherine Bender, University of Pittsburgh, School of Nursing
NIH/NINR-T32 #

Interdisciplinary Training of Nurse Scientists in Cancer Survivorship Research

Yates C.C. Role: 2014-2016: Advisory Committee

PI: Satdarshan Paul Monga and William Wagner, University of Pittsburgh, School of Medicine
NIH/NIBIB-T32 # 2T32EB001026-11

McGowan Cellular Approaches to Tissue Engineering and Regeneration (CATER) training grant program.

Yates C.C. Role: 2014-2019: Faculty Member

2015-2019- CATER Trainee Admission and Evaluation Committee

PI: Yvette Conley, University of Pittsburgh, School of Nursing
NIH/NINR-T32 #

Targeted Research and Academic Training for Nurses in Genomics

Yates C.C. Role: 2015-2021: Faculty Member

MANUSCRIPT REVIEWER

2009 – Present Ad hoc reviewer, Wound Healing and Regeneration
2010 – Present Ad hoc reviewer, Acta Dermato-Venereologica
2011 – Present Ad hoc reviewer, MHR Basic Science of Reproductive Medicine
2011 – Present Ad hoc reviewer, Journal of Biomedical Materials Research: Part A
2012 – Present Reviewer, American Journal of Pathology
2012 – Present Reviewer, Cell Transplantation
2012 – Present Reviewer, Stem Cell Research & Therapy
2013 – Present Reviewer, PLoS One
2018 – Present Reviewer, Advance Wound Care

UNPUBLISHED PRESENTATIONS

(International; National; Local)

Recent Invited International

1. **Yates C.C.** (2007, September) *CXCR3 Chemokine Receptor Facilitates Dermal and Epidermal Maturation in Aged Associated Wounds*. 17th Annual European Tissue Repair Society Meeting, Southampton, United Kingdom

2. **Yates C.C.** (2008, September) *Loss of CXC Chemokine Receptor 3 Signaling Causes a Delay in Epidermal and Dermal Maturation and Leads to Hypertrophic Scarring*. XXIX Congress of the Societa Italiana di Patologia Rende, Cosenza, Italy

3. **Yates C.C.** (2008, September) *CXCR3 Chemokine Receptor Facilitates Dermal and Epidermal Maturation in Aged Associated Wounds*. XXIX Congress of the Societa Italiana di Patologia Rende, Cosenza, Italy

4. **Yates C.C.** (2010, October) XXX Congress of the Societa Italiana di Patologia, University of Salerno, Salerno, Italy

Recent Invited National

1. **Yates C.C.** (2014, May) *Co-transplantation of mesenchymal stem cell and fibroblast reduces inflammation and corrects defective dermal remodeling*, American Association of Immunologists Annual Meeting, Honolulu, Hawaii – Selected abstract podium presentation

2. **Yates C.C.** (2014, May) *Chemokine Links between Inflammation and Matrix Remodeling in Skin Fibrosis*, American Society of Investigative Pathology Annual Meeting Cellular Survival: Tumors and Wounds, San Diego, California

3. **Yates C.C.** (2015, March) *Scars and Souvenir: Skin, Lung, and Heart*, American Society of Investigative Pathology Annual Meeting, Boston, Massachusetts

4. **Yates C.C.** (2015, October) *Heat Shock Protein 90 Disrupts TGF-Beta/Smad2/3 Signaling and Modulates ECM Deposition in Dermal Fibroblasts*, Pathobiology for Investigators, Students, Academicians, Baltimore, Maryland

5. **Yates C.C.** (2016, March) *Cell Injury Workshop: Proteotoxicity and Cell Injury*, Experimental Biology, San Diego, California

6. **Yates C.C.** (2016, October) *Microbiome and Disease*, Pathobiology for Investigators, Students, Academicians, Houston, Texas

7. **Yates C.C.** (2016, December) *Next Generation Wound Healing Strategies: “Smart Polymer” Therapy to Improve Tissue Repair*, Pathology-Grand Rounds University of North Carolina at Chapel Hill, Chapel Hill, North Carolina

8. **Yates C.C.** (2017, April) *Microphage-Fibroblast Crosstalk in Shaping Fibrotic Responses*, ASIP 2017 Annual Meeting AT Experimental Biology, Chicago, Illinois

9. **Yates C.C.** (2017, April) *Lesson in Tissue Repair*, Jackson State University – NIH Research Centers in Minority Institutions Program, Jackson, Mississippi

11. **Yates C.C.** (2018, April) *Fibrokine–Novel Peptide Therapy*, Experimental Biology, San Diego, California

Recent Invited Local

1. **Yates, C.C.** (2013, February) *New Regenerative Strategies for Wound Repair: Retooling the Matrix*, Magee-Women’s Research Institute's Work-in-Progress (WIP) Conference & Research Seminar Series, Pittsburgh, Pennsylvania

2. **Yates, C.C.** (2013, September) *Modulation of Glaucoma Filtration Surgery Healing Response Through the CXCR3 Pathway in New Zealand White Rabbit Model*, Ophthalmology Grand Rounds-Lecture series Papers to Practice, Pittsburgh Pennsylvania
3. **Yates, C.C.** (2014, April) *Inflammation Induced Responsive Gene Signatures in Scleroderma*, Clinical and Translational Science Institute Scholar Presentation, Pittsburgh, Pennsylvania
4. **Yates, C.C.** (2014, October) *Goblet Cells Replacement Therapy*, Science 2014- Sustain It! (Technology Showcase) University of Pittsburgh, Pittsburgh, Pennsylvania
5. **Yates, C.C.** (2014, November) *From Etiology to Cure: Links between Inflammation and Matrix Remodeling in Skin Fibrosis*, McGowan Institute Wound Healing Research Conference Pittsburgh, Pennsylvania
6. **Yates, C.C.** (2015, November) *Targeting Angiogenesis: A Therapeutic Approach Using a Synthetic Derived Peptide*, Cellular Approaches to Tissue Engineering and Regeneration, Pittsburgh, Pennsylvania
7. **Yates, C.C.** (2016, February) *Genomics of Variability in Progression and Severity of Skin Fibrosis*, Experimental Pathology Seminar Series. Pittsburgh, Pennsylvania
8. **Yates, C.C.** (2016, May) *Next generation wound healing strategies: “Smart Cell” polymers to improve age and excessive scarring*, McGowan Institute Wound Healing Research Conference Pittsburgh, Pennsylvania
9. **Yates, C.C.** (2016, June) *Scars and Souvenirs: Inflammation and Fibrosis in Skin*, Regenerative Medicine Summer School, Pittsburgh, Pennsylvania
10. **Yates, C.C.** (2017, March) *Matrix Control of Cellular-Transplantation to Improve Scarring Outcomes Affliction*, McGowan Institute 2017 Scientific Retreat, Nemaquin, Pennsylvania
11. **Yates, C.C.** (2017, June) *Scars and Souvenirs: Inflammation and Fibrosis in Skin*, Regenerative Medicine Summer School, Pittsburgh, Pennsylvania
12. **Yates C.C.** (2017, September) *More than Skin Deep: Understanding the Variables in Cutaneous Wound Healing*, Pathobiology for Investigators, Students, Academicians, Pittsburgh Pennsylvania
13. **Yates, C.C.** (2018, June) *Scars and Souvenirs: Inflammation and Fibrosis in Skin*, Regenerative Medicine Summer School, Pittsburgh, Pennsylvania

TEACHING

Primary Teacher

Term / Years	Course Number & Title	No. of Students	Level	Didactic or Clinical
Sp/2013	NUR 0003-1025: Anatomy &Physiology Lab-2	24	UG	Clinical Lab
Sp/2013	NUR 0003-1030: Anatomy &Physiology Lab-2	37	UG	Clinical Lab
Fa/2013	NUR 2204-1070: Pathophysiology Across Life Span (online) (Co-instructor)	5	GR	Didactic
Fa/2013	NUR 2204-1070: Pathophysiology Across Life Span (onsite) (Co-instructor)	97	GR	Didactic
Sp/2014	NUR 0003-1015: Anatomy & Physiology Lab-2	31	UG	Clinical Lab
Su/2014	NUR 0002-1100: Anatomy & Physiology Lab-2	37	UG	Clinical Lab
Su/2014	NUR 0003-1200: Anatomy & Physiology Lab-2	28	UG	Clinical Lab
Su/2014	NUR 3060-1335: Independent Study	1	GR	Didactic
Fa/2014	NUR 2204-1200: Pathophysiology Across Life Span (online) (Primary Instructor)	5	GR	Didactic
Fa/2014	NUR 2204-1200: Pathophysiology Across Life Span (onsite) (Co-instructor)	99	GR	Didactic
Sp/2015	NUR 0003-1015: Anatomy &Physiology Lab-2	32	UG	Clinical Lab
Su/2015	NUR 0002-1100: Anatomy &Physiology Lab-2	33	UG	Clinical Lab
Su/2015	NUR 0003-1200: Anatomy &Physiology Lab-2	27	UG	Clinical Lab
Fa/2015	NUR 0012-1050: Human Anatomy &Physiology-1 (Primary Instructor)	111	UG	Didactic
Fa/2015	NUR 0012-1070: Human Anatomy &Physiology-1 (Co-instructor)	175	UG	Didactic
Fa/2015	NUR 0003-1200: Anatomy &Physiology Lab (Co-coordinator)	225	UG	Clinical Lab
Sp/2016	NUR 0013-1030: Human Anatomy & Physiology (Primary Instructor, Section 1; Co-instructor, Section 2)	250	UG	Didactic
Sp/2016	NUR 0003-1200: Anatomy &Physiology Lab (Co-coordinator)	225	UG	Clinical Lab
Su/2016	NUR 2004-1010: Pathophysiology Across Life Span (onsite) (Co-instructor)	17	GR	Didactic
Fa/2016	NUR 2004-1010: Pathophysiology Across Life Span (online) (Primary)	17	GR	Didactic
Sp/2017	NUR 0013-1030: Human Anatomy & Physiology (Primary Instructor, Section 1; Co-instructor, Section 2)	250	UG	Didactic

Su/2017	NUR 0013-1030: Human Anatomy & Physiology- (Co-instructor, Section 2)	30	UG	Didactic
Fa/2017	NUR 2004-1200: Pathophysiology Across the Life Span (Primary Instructor)	15	GR	Didactic
Sp/2018	NUR 0013-1030: Human Anatomy & Physiology- (Primary Instructor)	148	UG	Didactic

Lecturer/Guest Lecturer

Term/ Years	Course Number & Title	No. of Students	Level	Topic of Lecture
Fa/2013	NUR-2204-1200: Pathophysiology Across Life Span (Lecture)	97	GR	Immune Function (4hrs)
Sp/2014	NUR-2204-1200: Pathophysiology Across Life Span (Lecture)	34	GR	Immune Function (4hrs)
Su/2014	NUR-2204-1200: Pathophysiology Across Life Span (Lecture)	20	GR	Immune Function (4hrs)
Fa/2014	NUR-2204-1200: Pathophysiology Across Life Span (Lecture)	95	GR	Immune Function (4hrs)
Fa/2014	MSCMP-3730: Extracellular Matrix in Tissue Biology and Bioengineering	20	GR	Chemokine and Extracellular Matrix (3hrs)
Fa/2014	MSCMP-3740: Stem Cell - S	20	GR	Skin Stem Cells (2hrs)
Fa/2014	MSCMP: Cellular Approaches to Tissue Engineering and Regeneration (CATER) training program seminar series	17	GR	Fibrosis and Wound Healing (2hrs)
Sp/2015	NUR-2204-1200: Pathophysiology Across Life Span (Lecture)	34	GR	Immune Function (4hrs)
Su/2015	NUR-2204-1200: Pathophysiology Across Life Span (Lecture)	22	GR	Immune Function (4hrs)
Fa/2015	NUR-2204-1200: Pathophysiology Across Life Span (Lecture)	90	GR	Immune Function (4hrs)
Fa/2015	MSCMP-3730: Extracellular Matrix in Tissue Biology and Bioengineering	20	GR	Chemokine and Extracellular Matrix (3hrs)
Fa/2015	MSCMP-3740: Stem Cell	15	GR	Skin Stem Cells (2hrs)
Fa/2015	MSCMP0-3730: Extracellular Matrix in Tissue Biology and Bioengineering	15	GR	Fibrosis and Wound Healing (2hrs)
Sp/2016	NUR-2204-1200: Pathophysiology Across Life Span (Lecture)	40	GR	Immune Function (2hrs)

Sp/2016	MSCMP-2730: Molecular Mechanisms of Tissue Growth and Differentiation - SOM	24	GR	Wound Healing (2hrs)
Fa/2016-18	MSCMP-3730: Extracellular Matrix in Tissue Biology and Bioengineering	20	GR	Chemokine and Extracellular Matrix (3hrs)
Sp/2017-2018	MSCMP-2730: Molecular Mechanisms of Tissue Growth and Differentiation - SOM	24	GR	Wound Healing (2hrs)

MENTORING

PhD and Professional Dissertations – Nursing

- 2013 – 2015 Chair and Research Advisor (School of Nursing) and Cellular Approaches to Tissue Engineering and Regeneration (CATER) Mentor – **Kendra Sayles, BS, RN**, pre-doctoral graduate nursing student with the dissertation (pending) title: Genomics of Bone Regeneration
AWARDS: Corrine M. Barnes Scholarship recipient 2013; E Enid Goldberg Award 2015
- 2016 – Present Committee Member – **Sarah Belcher, BSN, RN, OCN** at the University of Pittsburgh in the Nursing Department, with the dissertation title: Self-Management Mediation Relationships Between Perceived Stress, Psychological Responses and Inflammation in Multiple Cancer Survivors
AWARDS: Robert Wood Johnson Foundation Future of Nursing Scholar

PhD and Professional Dissertations – Engineering

- 2014 – 2016 Committee Member – **Emily E. Friedrich, MS, PhD** at Carnegie Mellon University in the Biomedical Engineering Department, with the dissertation title: Localized control of inflammation via hyaluronic acid-conjugated tumor necrosis factor-alpha antibody therapeutics
- 2014 – Present Secondary Mentor, Committee Member – **Christopher Mahoney, BS, MS** at the University of Pittsburgh in the Biomedical Engineering Department, with the dissertation title: Adipose Matrix Derived Composite Hydrogel for Autologous Fat Graft Retention
AWARDS: Cellular Approaches to Tissue Engineering and Regenerative Medicine Trainee Fellowship (2014 – Present); Commonwealth of Pennsylvania Fiscal Year 15 State Grant 2015; Wes Pickard Academic Fellowship Award (honorably declined) 2015; K. Leroy Irvis Fellowship Award (2015 – Present)
- 2015 – Present Secondary Mentor – **Jonquil Mau, BS, MS** at the University of Pittsburgh in the Biomedical Engineering Department, with the dissertation title: Regeneration of the Anterior Cruciate Ligament Using Extracellular Matrix

Scaffolds and a Resorbable Metallic Implant: Development for Clinical Translation

AWARDS: NIH T32 Biomechanics in Regenerative Medicine (BiRM) Training Fellowship Recipient, University of Pittsburgh, Pittsburgh, PA (2015 – 2017); Best Poster Award, International Symposium on Ligaments & Tendons XIV 2015; Erin McGurk Grant, Orthopedic Research Laboratories Alumni Council (ORLAC) – Designed for a female graduate to perform musculoskeletal research during the summer of 2014

2016 – Present Committee Member – **Samuel LoPresti** at the University of Pittsburgh in the Bioengineering Department with the dissertation title: Aged Skeletal Muscle ECM Recapitulates Altered Host Response during Muscle Injury

2018 – Present Committee Member – **Martin Haschak** at the University of Pittsburgh in the Bioengineering Department with the dissertation title: Age-related compositional and biomechanical alterations in the cardiac microenvironment drive alterations in cardiac tissue resident macrophage proliferation, phenotype, and functionality which contribute to the age-related decline in cardiovascular function

AWARDS: Irvis Fellowship, University of Pittsburgh; CATER T32 Fellowship, University of Pittsburgh

2018 – Present Committee Member – **Alexis Nolfi** at the University of Pittsburgh in the Bioengineering Department with the dissertation title: Modulation and Visualization of Cytokine-Eluting Coatings from Polypropylene Mesh to Optimize Downstream Outcomes

AWARDS: University of Pittsburgh School of Engineering Bevier Award; August 2016 Issue of American Journal of Obstetrics and Gynecology: Figure from paper was chosen for cover art of the journal; Achievement Rewards for College Scientists (ARCS) Pittsburgh Chapter – Chosen as Scholar 2015; National Science Foundation Graduate Research Fellowship Program – Chosen as Fellow 2015; Cellular Approaches to Tissue Engineering and Regeneration (CATER) pre-doctoral T32 Training Grant – Chosen as Fellow 2018

PhD and Professional Dissertations – Pathology

2013 – 2016 Outside Research Advisor – **Austin Nuschke**, at the University of Pittsburgh School of Medicine in the Pathology Department, with the dissertation title: Multipotent Stromal cells/Mesenchymal Stem Cells and Fibroblasts Combine to Minimize Skin Hypertrophic Scarring (Primary Advisor – Alan Wells)

2014 – Present Primary Mentor – **Erica Johnson, BS** medical student, at the University of Pittsburgh School of Medicine in the Pathology Department, with the dissertation title: The Role of Pericyte Signaling through Chemokine Receptor 3 in the Human Retina

2016 – Present Outside Research Advisor – **Morgan Preziosi, BS** at the University of Pittsburgh in the Pathology Department, with the dissertation title: Wnt

- Signaling in Liver Regeneration after Partial Hepatectomy (Primary Advisor – Paul Monga)
- 2017 – Present Outside Research Advisor – **Nakisha Rutledge**, at Northwestern University in the Pathology Department, with the dissertation title: Characterization of CD99L2 as an Important Regulator of Inflammation (Primary Advisor – William Muller)

Post-Doctoral Fellows and Residents

- 2014 – 2016 Research Advisor – **John Swogger, MD** at the University of Pittsburgh in the Department of Ophthalmology, with the research title: Injected versus Sponge-Applied Mitomycin-C (MMC) During Modified Trabeculectomy in New Zealand White Rabbit Model
- 2017 – Present Research Advisor – **Zariel I. Johnson** at the University of Pittsburgh in the School of Nursing, with the research title: Classification for Global Gene Signature Predicting Severity of Systemic Scleroderma
- 2017 – Present Research Advisor – **Guangyi Zhao** at the University of Pittsburgh in the School of Nursing, with the research title: M2 Macrophage Phenotype Modifies the Wound Micro-Environment to Improve Aged-Deficient Tissue Repair
- AWARDS:** 2017 Pathobiology for Investigators, Students, and Academicians (PISA) Travel Awardee

University of Pittsburgh Masters Research Students

- 2014 – 2016 Research Advisor – **Akhil Patel** at the University of Pittsburgh in the School of Nursing, in the Department of Health Promotion and Development, with the research title: Fibroblast MSCs Transplantation for Reduction of Scarring
- 2017 – Present Research Advisor – **Michelle Clifton** at the University of Pittsburgh in the School of Nursing, in the Department of Health Promotion and Development, with the research title: Classification for Global Gene Signature Predicting Severity of Systemic Scleroderma

University of Pittsburgh Undergraduate Mentoring Activities Nursing Honor Undergraduate Students

- 2016 – Present Primary Research Advisor and Chair – **Heather Moore** at the University of Pittsburgh in the Undergraduate Nursing Honors College, with the scholarly project title: The Microbiota, A Possible Link Between Vitamin D Deficiency and the Development of Type 2 Diabetes
- AWARDS:** National Society of Collegiate Scholars (NSCS) Nominee; 2016 Gerald R. and Helen Kissell Burns Resource Scholarship Recipient; 2016 Brackenridge Research Fellowship; 2017 Honors College – Health Sciences Summer Research Fellowships (1 of 10 selected University wide); 2017 Summer Research Opportunity in Pathology Program

Nursing Undergraduate Research Students

- 2013 – 2014 Research Advisor – **Marisa Febiszewski** at the University of Pittsburgh as an Undergraduate Nursing (URMP) Student

- AWARDS:** CHOP Research Institute Summer Scholars Program (CRISSP)
- 2013 – 2015 Research Advisor – **Maranda Rosano** at the University of Pittsburgh as an Undergraduate Nursing (URMP) Student, with the scholarly project title: Migration Pattern of Fibrotic Fibroblast under Chemokine Stimuli
- AWARDS:** UPMC Summer Student Nurse Fellowship
- 2015 – Present Research Advisor – **Jessica Fisher** at the University of Pittsburgh as an Undergraduate Nursing (URMP) Student, with the scholarly project title: Psychosocial Behavioral Effects on Chronic Wounds
- 2015 – Present Research Advisor – **Emma Wolfe** at the University of Pittsburgh as an Undergraduate Nursing (URMP) Student, with the scholarly project title: Macrophage Polarization in Aged Wound Healing
- 2016 – Present Research Advisor – **Samantha Schaeffer** at the University of Pittsburgh as an Undergraduate Nursing (URMP) Student, with the scholarly project title: CXCR3 Modulation of Aged Fibroblasts and Keratinocytes
- 2017 – Present Research Advisor – **Erin Frankel** at the University of Pittsburgh as an Undergraduate Nursing (URMP) Student

Undergraduate Research Students

- 2012 –2014 Research Advisor – **Holly Whitelam** an Undergraduate Bioengineering student, with the scholarly project title: Polymer Matrix Delivery of MSC in Skin Wounds
- 2013 – 2014 Research Advisor – **Sool Lee** an Undergraduate Biochemistry student, with the scholarly project title: Molecular Switch in Fibrosis
- 2013 – 2016 Research Advisor – **Megan Link** an Undergraduate Biological Science student, with the scholarly project title: Matrix Profile of MSC under Inflammatory Stimuli
- AWARDS:** The Samuel D. Colella Award
- 2014 – 2016 Research Advisor – **Rachel Whalen** an Undergraduate Biology student, with the scholarly project title: Role of Heat Shock Proteins in Modulating ECM Deposition
- 2015 – 2018 Research Advisor – **Brandon Lantonio** an Undergraduate Neuroscience student, with the scholarly project title: Stem Cell and Fibroblast Modulation of Wound Fibrosis
- AWARDS:** 2017 ASIP Trainee Travel Award to Attend the ASIP Annual Meeting at 2017 Experimental Biology (National Award); 2017 Pathobiology for Investigators, Students, and Academicians (PISA) Travel Awardee (only UG recipient)
- 2016 – 2017 Research Advisor – **Madison Brannon** an Undergraduate Biology student, with the scholarly project title: Psychosocial Behavioral Effects on Type 2 Diabetic Wounds
- 2016 – 2018 Research Advisor – **Elizabeth Schmele** an Undergraduate Biology student, with the scholarly project title: Psychosocial Behavioral Effects on Chronic Wounds
- 2018 – Present Research Advisor – **Dana Julian** an Undergraduate Neuroscience student, with the scholarly project title: Fibroblast Phenoconversion

National Mentoring

- 2010 – 2011 **Jainee Lewis** at San Francisco State University, San Francisco, California
2010 – 2011 **Venki Ramakrishnan** at the University of Maryland, Baltimore County, Maryland
2010 – 2011 **Chelsea Saito-Reis** at Chaminade University, Honolulu, Hawaii
2010 – 2011 **Diep Vuong** at Chaminade University, Honolulu, Hawaii
2010 – 2011 **Brandon Young** at the University of Maryland, Baltimore County, Maryland
2011 – 2013 **Joyce C. Ohiri** at the University of Maryland, Baltimore County, Maryland
2011 – 2013 **David Thomas** at Georgia Gwinnett College, Lawrenceville, Georgia
2012 – Present **Shantell Phillips** at Texas Southern University, Houston, Texas
2012 – Present **Evelyn Reid** at Medgar Evers College-CUNY, Brooklyn, New York
2015 – Present **Liliana Espinoza** at St. Mary's University, San Antonio, Texas

Junior Faculty Mentoring

- 2013 – Present **Latha Satish, MSc, MPhil, PhD**, Research Assistant Professor of Plastic Surgery, University of Pittsburgh
2014 – Present **Jacqueline Jones, PhD**, Assistant Professor, Department of Biological and Environmental Science, Troy University
2015 – Present **Christine A. Feeley, RN, MSN, PhD**, Assistant Professor, Department of Health Promotion and Development, University of Pittsburgh
2016 – Present **Jason Dechant, MA, PhD**, Assistant Professor, Department of Health Promotion and Development, University of Pittsburgh
2016 – Present **Edward A. Medina, MD, PhD**, Assistant Professor, Division of Hematopathology, Department of Pathology and Laboratory Medicine, UT Health San Antonio
2017 – Present **Diane R. Bielenberg**, Assistant Professor, Department of Surgery, Harvard Medical School Vascular Biology Program, Boston Children's Hospital
2017 – Present **Denuja Karunakaran, PhD**, Associate Scientist, Cardiac Function Laboratory, University of Ottawa Heart Institute
2018 – Present **Titus A. Reaves, PhD**, Assistant Professor, Department of Regenerative Medicine and Cell Biology, College of Medicine, Medical University of South Carolina

SERVICE

University Committees

- 2013 **Presenter** – Celebrating differences: Issues for minorities in academic medicine, Institute for Clinical Research Education
2013 **Panelist** – Managing Your Mentor: Best Practices for Mentees, Office of Academic Career Development University of Pittsburgh Health Sciences
2014 **School of Nursing Representative** – Facilitator, Women in Medicine & Science Forum, University of Pittsburgh
2014 **Judge** – Health Disparities Poster Competition – School of Health Sciences, University of Pittsburgh

- 2014 **School of Nursing Representative** – Provost's Diversity Task Force Luncheon, University of Pittsburgh
- 2014 **Panelist** – *Science 2014–Sustain It!* Technology Showcase, University of Pittsburgh
- 2015 **School of Nursing Representative** – Mentor, Women in Medicine & Science Forum, University of Pittsburgh
- 2015 **Judge** – Health Disparities Poster Competition – School of Health Sciences, University of Pittsburgh
- 2015 – 2018 **Co-Director** – McGowan Institute Injury, Repair and Regenerative Medicine Seminar Series – Biweekly
- 2016 – Present **Committee Member** —Trainee Admission and Evaluation Committee Cellular Approaches to Tissue Engineering and Regeneration (CATER)
- 2017 **Faculty Advisor**-Biomaterial Society- Graduate Chapter
- 2018 **Panelist** – National Center for Faculty Development and Diversity, University of Pittsburgh
- 2018 **ICRE Scholar** – Networking for Diversity, University of Pittsburgh
- 2018 – 2020 **Elected Member** – University Senate Bylaws Committee, University of Pittsburgh

School of Nursing Committees

- 2014 **Member** – School of Nursing PhD Council
- 2014 **Member** – School of Nursing PhD Council Subcommittee – PhD Program Progression and Graduation Committee
- 2014 **Reviewer** – Undergraduate and Graduate scholarship essay, School of Nursing, University of Pittsburgh
- 2015 **Committee Member** – Curriculum Refresh Task Force #3
- 2015 – Present **Committee Chair** – School of Nursing PhD Council Subcommittee – PhD Program Progression and Graduation Committee
- 2015 **Reviewer** – Undergraduate and Graduate scholarship essay, School of Nursing, University of Pittsburgh
- 2015, 2016 **Gap Analysis Taskforce** – PhD Council Subcommittee
- 2016 **Committee Member** – Kazakhstan School of Nursing Module and Course Development (Human Anatomy & Physiology and Pathophysiology), University of Pittsburgh
- 2016 **Member** – School of Nursing Honors College committee, University of Pittsburgh
- 2017 **Course Development** – Clinical Research and Diagnostics Honors Course, University of Pittsburgh

National Service

- 2009 – Present **Reviewer and Judge** – Annual Biomedical Research Conference for Minorities (ABRCMS)
- 2009 – 2011 **Co-Chair** – American Society of Investigative Pathology, Trainee Newsletter
- 2011 – 2015 **Chair** – Cell Injury Special Interest Group, American Society of Investigative Pathology

- 2012 – Present **Faculty Mentor** – Federation of American Societies for Experimental Biology-Minority Access to Research Careers (FASEB-MARC)
- 2012 – 2015 **Member** – FASEB, ASIP Public Affairs Working
- 2012 – 2015 **Member** – Publication Committee, American Journal of Pathology
- 2013 **Chair** (Symposium) – Experimental Biology Annual Meeting: Regulation of the Extracellular Matrix in the Pathophysiology of Disease
- 2014 **Chair** (Symposium) – Experimental Biology Annual Meeting EB 2014: Cellular Injury: Tumors and Wounds. San Diego CA
- 2013 – Present **Co-Chair and Instructor** – F TROOP: Roadmap to Fellowship Grant Applications, American Society for Investigative Pathology
- 2014 – 2015 **Chair-Elect** – Committee for Career Development and Diversity, American Society of Investigative Pathology
- 2015 – Present **Member** – Education Committee, American Society of Investigative Pathology
- 2015 – Present **Chair** – Committee for Career Development and Diversity, American Society of Investigative Pathology
- 2015 – Present **Council Member** – Council, American Society of Investigative Pathology
- 2015 – Present **Co-Chair and Instructor** – F TROOP: Roadmap to Fellowship Grant Applications, American Society for Investigative Pathology
- 2016 – Present **Steering Committee Member** – Pathobiology for Investigators, Students, Academicians Meeting
- 2016 **Chair** – Workshop Career-Choice Opportunities in Science and Networking Efficiently
- 2017-Present **Member** – Organizing and Scientific Committee, Regenerative Medicine Workshop
- 2017-Present Member- Federation of American Societies for Experimental Biology (FASEB) Ordinary Committee Excellence in Science Award

Community Service

- 2007 – Present Wise Scholars Foundation, Tuskegee, Alabama
- 2007 – Present Pittsburgh Youth Development Project, Pittsburgh, Pennsylvania
- 2011 – Present Pittsburgh ALS Foundation, Pittsburgh, Pennsylvania
- 2015 Sunday Service weekly lecture/discussion forum in the First Unitarian Church of Pittsburgh in Shadyside – Title: Non-healing Wounds
- 2016 Women in Bio-Young Scientist Experimental Day, Carnegie Science Center, Pittsburgh, Pennsylvania
- 2016 Susan G. Komen Breast Cancer Fundraiser and Walk, San Diego, California
- 2016 Elementary Career Day, Bowie, Maryland
- 2017 Science of Silence Day, Vol Pittsburgh, Pennsylvania