

Curriculum Vitae

Name: Cecelia C. Yates, PhD

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Education and Training

Undergraduate

1998-2001 Tuskegee University BS (2001), Biology
Tuskegee, Alabama Minor Chemistry

Graduate

2004-2009 University of Pittsburgh
School of Medicine/
Tuskegee University PhD (2009), Pathology/Integrative
Tuskegee, Alabama Bioscience

Postgraduate

2009-2012 University of Pittsburgh Post-Doctoral Fellow
School of Medicine Department of Pathology
Pittsburgh, Pennsylvania Pathology [Fellowship Director: Alan
Wells, MD, DMSc]

Appointments and Positions

Academic

2015-present Assistant Professor, McGowan Institute for Regenerative Medicine
University of Pittsburgh, Pittsburgh, Pennsylvania (**secondary
appointment**)

2014-present Assistant Professor, Department of Pathology, School of Medicine
University of Pittsburgh, Pittsburgh, Pennsylvania (**secondary
appointment**)

- 2012-present Assistant Professor, Department of Health Promotion, and Development, School of Nursing, University of Pittsburgh (**Tenure track primary appointment**)
- 2010-2012 Adjunct Instructor, Community College of Allegheny County, Pittsburgh, Pennsylvania
- 2009-2012 Postdoctoral Fellow, Department of Pathology, School of Medicine, University of Pittsburgh, Pittsburgh, Pennsylvania
- 1998-2001 Research Assistant, Carver Cancer Foundation, Tuskegee University, Tuskegee, Alabama

Non-Academic

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

Licensure and Certification

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

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
- 2016-present **Editorial Board Member-** American Journal of Pathology

Advisory Boards

2014-2017 **Steering Committee member**-American Society of Investigative Pathology grant application (**R13 Awarded 2015 and 2016**)

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**- Developmental stage therapeutics company targeting macular degeneration.

Membership in Professional and Scientific Societies

1999-2008 Endocrine Society
2001-present Beta Kappa Chi
2005-2007 American Heart Association
2005-present Wound Healing Society*
2007-present American Society for Investigative Pathology*
2007-2008 European Tissue Repair Society
2012-present American Association of Immunology

*(Committee or leadership role)

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
2009 ASIP Educational Fund Scholar, New Orleans, Louisiana
2010 Postdoctoral Award (1st 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), Sante Fe, New Mexico
2015	ASIP Junior Faculty Award, American Society for Investigative Pathology, Baltimore, MD
2016	University of Pittsburgh Innovator Awardee, University of Pittsburgh, Pittsburgh, Pennsylvania
2017	University of Pittsburgh Innovator Awardee, University of Pittsburgh, Pittsburgh, Pennsylvania
2018	

Publications

Citation indices All Since 2012

Citations	937 703
h-index	16 16
i10-index	19 19

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 Sept; 173. 3): 643. 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 $\beta 3$ 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. Loss of CXC chemokine receptor 3 signaling cause a delay in epidermal and dermal maturation and lead to hypertrophic scarring. *American Journal Pathology*. 2010 April; 176 (4): 1743-54. 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 July; 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):1972-83 PMID: 23541003
11. Xu L, **Yates C.C.**, Lockyer P, Xie L, Bevilacqua A, He J, Lander C, Patterson C, Willis MS: 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 MT, He J, Sullivan J, Grevengoed T, Schisler J, Han Y, Hill JA, **Yates C.C.**, Stansfield WE, Mapanga RF, Essop MF, Muehlbauer MJ, Newgard CB, Bain JR, Willis MS. 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 MT, Sullivan J, L Parry T, J Grevengoed T, Schisler JC, Hill JA, **Yates C.C.**, Mapanga RF, Essop MF, Stansfield WE, Bain JR, Newgard CB, Muehlbauer MJ, Han Y, Clarke BA, Willis MS. 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 MT, Sullivan J, L Parry T, J Grevengeod T, Schisler JC, Hill JA, **Yates C.C.**, Mapanga RF, Essop MF, Stansfield WE, Bain JR, Newgard CB, Muehlbauer MJ, Han Y, Clarke BA, Willis MS 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 Transl Med.* 2016 Jul 8. PMID: 27400798
16. **Yates C.C.***, Nuschke A., Rodrigues M, Whaley D, Dechant JJ, Taylor DP, Wells Mesenchymal stem cells survival and healing capacity improved by polymeric wound gel with matrikine. *Cell Transplant.* 2016 Jul 2. PMID: 27452449
17. Hachim D, LoPresti ST, **Yates CC**, Brown BN. Shifts in macrophage phenotype at the biomaterial interface via IL-4 eluting coatings are associated with improved implant integration. *Biomaterials.* 2016 Oct 11;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 Surg Infect (Larchmt).* 2016 Oct 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 PMID: 28874184
20. Happ C., Conner IP, Swogger J., Davis R., Link MC., Wells A, Schuman JS., **Yates CC.*** A Novel Combination Therapy reduces Subconjunctival Fibrosis and Prolongs bleb Survival and Intraocular Pressure Reduction after Glaucoma Filtration Surgery in the Rabbit Model. *Graefe's Archive for Clinical and Experimental Ophthalmology* Oct 2017 (*In Press*)
21. Johnson Z, Zhou G, **Yates. CC*** Gene Expression Profiles of Heterogeneous Fibrotic Diseases: Focus on Cell-Matrix Interaction. Nov 2017 (*In Press*)

***Corresponding Author**

Reviews, Invited Published Papers, Proceedings, Monographs

1. **Yates C.C.**, Bodnar R.J., Wells A. Molecular Control of Scarring. Cellular and Molecular Life Sciences. 2011 Jun; 68; 1861-187. 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):3 25-33. 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 RJ, Satish L, **Yates C.C.**, Wells A. Pericytes: A newly recognized player in wound healing. Wound Repair and Regeneration. 2016 Mar; 10. PMID: 26969517

Other Publications

Patents

1. **C.C., Yates**, A. Wells, T Turner, J. Jaynes (May 27, 2014) Chemokine Derived Peptides and Uses for Chronic Wound and Angiogenesis Inhibition Treatments. United States 8734775
2. A.Wells, **Yates C.C.**, J.S. Schuman (November 10, 2015) Activators of CXCR3 for the Treatment of Angiopathies In The Eye. United States 9,180,167
3. A. Wells, **Yates C.C.**, Taylor, D (2013) Cell-Based Compositions, Cell-Based Bandage Devices and Systems and Methods of Treatment Therewith United States Application #2014/020631
4. **Yates C.C.**, A. Wells, J.S.Schuman, Conner I (February 20, 2018) Goblet Cell Replacement Therapy United States 9,895,419
5. A.Wells, **Yates C.C.**, J.S. Schuman (September 27, 2016) Activators of CXCR3 for the Treatment of Angiopathies In The Eye. United States 9,452,200
6. A. Wells, **Yates C.C.**, J.S. Schuman (January 23, 2018) Activators of CXCR3 for the Treatment of Angiopathies of the Eye. United States 9, 872, 889

Research

Ongoing Research

1. NIH/NIGMS (1R01GM63569) (PI: Wells, UPitt)

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.

Co-I 2.0 months

2. NIH/NIAMS(1R01AR068317) (PI: Yates, UPitt)

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.

Co-I 2.0 months

3.NIH/NINR (1R01NR016436) (PI: Wang, UPitt/Cornell)

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. My role as a co-Investigator is to provide insight in foster interprofessional research and develop of this system between Nurses and Engineers to promote improve health. This includes mentoring and training both nurse and engineer pre- and postdoctoral scientists in a multidisciplinary manner. The **Yates' lab** role includes experimental involvement of testing the molecular and cellular aspect of the growth factor application therapies.

Co-I 2.0 months

4. U. PITT Chancellor's Innovation Commercialization Funds Award (PI:Yates)

FibroKine: An inhalation anti-fibrotic drug therapy for IPF

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

5. U. PITT Center for Medical Innovation Early Stage Seed Grant (PI:Yates)

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.

Co-I .5 months

6. Central Research Development Fund (PI:Yates)

Variability in Scleroderma Skin Fibroblast

The major goal of this project is to identify unique chemokine gene signatures that regulate fibrosis and are associated with disease severity. This proposal is targeted to investigate

possible relationships between chemokine gene alterations and fibrotic outcomes. There is no overlap with the current grant.

Co-I 2.0 months

6.NIH/LRP (L60 MD009870) (PI:Yates)

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

Funding period: 9/1/05-6/30/08

Role: Trainee

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 CC

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: 50% effort

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 various stages of fibrosis.

PI: Yates CC

Funding Period= 12/1/13-4/31/16

Other Scholarly Activities

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

Unpublished Presentations
(International; National; Regional; Local)

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- Invited
3. **Yates C.C.** (2015, March) *Scars and Souvenir: Skin, Lung, and Heart,* American Society of Investigative Pathology Annual Meeting, Boston, Massachusetts- Invited
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- Invited
5. **Yates C.C.** (2016, March) *Cell Injury Workshop: Proteotoxicity and Cell Injury,* Experimental Biology, San Diego, California- Invited
6. **Yates C.C.** (2016, October) Pathobiology for Investigators, Students, Academicians, *Microbiome and Disease,* Houston, Texas- Invited
7. **Yates C.C.** (2017, October) Pathobiology for Investigators, Students, Academicians *More than Skin Deep: Understanding the Variables in Cutaneous Wound Healing,* Pittsburgh PA

Recent Invited Local

1. **Yates, C.C.** (2013, February) *New Regenerative Strategies for Wound Repair: Retooling the Matrix.* Paper presented Magee-Women's Research Institute's Work-in-Progress (WIP) Conference & Research Seminar Series, Pittsburgh, PA- Invited
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 PA- Invited
3. **Yates, C.C.** (2014, April) *Inflammation Induced Responsive Gene Signatures in Scleroderma.* Clinical and Translational Science Institute Scholar Presentation, Pittsburgh, PA- Invited
4. **Yates, C.C.** (2014, October) *Goblet Cells Replacement Therapy.* Science 2014- Sustain It! (Technology Showcase) University of Pittsburgh, Pittsburgh, PA- Invited

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, PA- Invited
6. **Yates, C.C.** (2015, November) *Targeting Angiogenesis: A Therapeutic Approach Using a Synthetic Derived Peptide*, Cellular Approaches to Tissue Engineering and Regeneration
7. **Yates, C.C.** (2016, February) *Genomics of Variability in Progression and Severity of Skin Fibrosis*. Experimental Pathology Seminar Series. Pittsburgh, PA- Invited
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, PA- Invited
9. **Yates, C.C.** (June 2016-17) Scars and Souvenirs: Inflammation and Fibrosis in Skin Regenerative Medicine Summer School
10. **Yates, C.C.** (March 2017) Matrix Control of Cellular-Transplantation to Improve Scarring Outcomes Affliction, McGowan Institute 2017 Scientific Retreat Nemaocolin, PA

Other Presentations (e.g., workshops)

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| 2006 | 16 th Annual Wound Healing Society meeting, Scottsdale, Arizona (May) |
| 2007 | Tuskegee University Research Seminar, Tuskegee Alabama (February) |
| 2007 | McGowan Institute for Regenerative Medicine, Wound Healing Conference, Pittsburgh, Pennsylvania (March) |
| 2007 | 17 th Annual Wound Healing Society Meeting, Tampa, Florida (April) |
| 2007 | 17 th Annual European Tissue Repair Society Meeting, South Hampton, United Kingdom (September) |
| 2008 | Experimental Biology Meeting, San Diego, California (April) |
| 2008 | XXXI Congress of the Societa Italiana di Patologia Rende, Italy (September) |
| 2008 | 9 th Annual Biomedical Research Symposium, Tuskegee University (September) |
| 2009 | McGowan Institute for Regenerative Medicine, Pittsburgh, Pennsylvania (February) |
| 2009 | Advanced Wound Care and Wound Healing Society Meeting, Dallas, Texas |
| 2009 | ASIP 2010 Annual Meeting at Experimental Biology, New Orleans, Louisiana |
| 2010 | Advanced Wound Care and Wound Healing Society Meeting, Orlando, Florida |
| 2010 | ASIP 2010 Annual Meeting at Experimental Biology, Anaheim, California |
| 2010 | XXXI Congress of the Societa Italiana di Patologia, University of Salerno, Italy |
| 2011 | ASIP 2011, Excellence in Science Lecture, Washington, District of Columbia |
| 2013 | Immunohistochemistry and Microscopy Course (IHCM) Faculty award |
| 2013 | AAI 2013 annual meeting Presentation Award, Honolulu, Hawaii |
| 2014 | Keystone Symposia Early Career Investigator Award (ECITA) |

- 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,

Teaching

Primary Teacher**Lecturer / Guest Lecturer**

Course Number & Title	No. of Students	Level	Topic of Lecture
NUR-2204-1200 Pathophysiology Across Life Span (Lecture)	97	GR	Immune Function (4hrs)
NUR-2204-1200 Pathophysiology Across Life Span (Lecture)	20	GR	Immune Function (4hrs)
MSCMP 3730-Extracellular Matrix in Tissue Biology and Bioengineering	20	GR	Chemokine and Extracellular Matrix (3hrs)
MSCMP- 3740- Stem Cell - S	20	GR	Skin Stem Cells (2hrs)
MSCMP- Cellular Approaches to Tissue Engineering and Regeneration (CATER) training program seminar series	17	GR	Fibrosis and Wound Healing (2hrs)
MSCMP 3730-Extracellular Matrix in Tissue Biology and Bioengineering	15	GR	Fibrosis and Wound Healing (2hrs)
NUR-2204-1200 Pathophysiology Across Life Span (Lecture)	40	GR	Immune Function (2hrs)
MSCMP 2730: Molecular Mechanisms of Tissue Growth and Differentiation - SOM	24	GR	Wound Healing (2hrs)
MSCMP 3730-Extracellular Matrix in Tissue Biology and Bioengineering	20	GR	Chemokine and Extracellular Matrix (3hrs)

Mentoring

PhD and Professional Dissertations

- 2014-2016 Committee Member-**Emily E Friedrich MS, PhD**, Carnegie Mellon University, Department of Biomedical Engineering- Dissertation title: Localized control of inflammation via hyaluronic acid-conjugated tumor necrosis factor-alpha antibody therapeutics.
- 2013-2015 Chair and Research Advisor (School of Nursing) and Cellular Approaches to Tissue Engineering and Regeneration (CATER) mentor: -**Kendra Sayles, BS, RN**, Predoctoral Graduate Student Nursing- pending dissertation title: Genomics of Bone Regeneration

Awards

Corrine M. Barnes Scholarship recipient 2013
E Enid Goldberg Award 2015

- 2014-Present Secondary Mentor, Committee Member-**Christopher Mahoney, BS, MS**, University of Pittsburgh, Department of Biomedical Engineering- 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

- 2014-Present Primary Advisor-**Erica Johnson, BS**, (Medical Student) University of Pittsburgh School of Medicine, Department of Pathology- Dissertation title: The Role of Pericyte Signaling Through Chemokine Receptor 3 in the Human Retina

- 2015-Present Committee Member-**Jonquil Mau, BS, MS**, University of Pittsburgh, Department of Biomedical Engineering- 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, Orthopaedic Research Laboratories Alumni Council (ORLAC); Designated for a female graduate student to perform musculoskeletal research during the summer of 2014

2016-Present Committee Member-**Morgan Preziosi, BS**, University of Pittsburgh, Department of Pathology- Dissertation title: Wnt Signaling in Liver Regeneration after Partial Hepatectomy

2016-Present Committee Member-**Sarah Belcher, BSN, RN, OCN**, (School of Nursing) University of Pittsburgh, Department of Nursing; Robert Wood Johnson Foundation Future of Nursing Scholar- Dissertation title: Self-Management Mediation Relationships Between Perceived Stress, Psychological Responses and Inflammation in Multiple Cancer Survivors

Post-Doctoral Fellows and Residents

2014-2016 Research Advisor- **John Swogger MD**, University of Pittsburgh Department of Ophthalmology Injected versus Sponge-Applied Mitomycin-C (MMC) During Modified Trabeculectomy in New Zealand White Rabbit Model

2017-Present Research Advisor- **Zariel I Johnson**, University of Pittsburgh, School of Nursing
Classification for Global Gene Signature Predicting Severity of Systemic Scleroderma

2017-Present Research Advisor-**Guangyi Zhao**, University of Pittsburgh, School of Nursing
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 Undergraduate Mentoring Activities Nursing Honor Undergraduate Students

2016- Present Primary Research Advisor and Chair: **Heather Moore**, Undergraduate Nursing (Honors College): Scholarly: 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 Fellowships
 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**, Undergraduate Nursing (URMP Student)

Awards- CHOP Research Institute Summer Scholars Program(CRISSP)

2013-2015 Research Advisor: **Maranda Rosano**, Undergraduate Nursing (URMP Student): Scholarly Project: Migration Pattern of Fibrotic Fibroblast under Chemokine stimuli

Awards- UPMC Summer Student Nurse Fellowship

2015- Present **Research Advisor: Jessica Fisher**, Undergraduate Nursing (URMP Student): Scholarly Project: Psychosocial Behavioral Effects on Chronic Wounds

2015- Present Research Advisor: **Emma Wolfe**, Undergraduate Nursing (URMP Student): Scholarly Project: Macrophage Polarization in Aged Wound Healing

2016- Present Research Advisor: **Samantha Schaeffer**, Undergraduate Nursing (URMP Student): Scholarly Project: CXCR3 Modulation of Aged Fibroblasts and Keratinocytes.

Undergraduate Research Students

2012–present Research Advisor: **Holly Whitelam**, Undergraduate Bioengineering Major: Scholarly Project: Polymer Matrix Delivery of MSC in Skin Wounds.

2013-present Research Advisor: **Megan Link**, Undergraduate Biological Science Major: Scholarly Project: Matrix Profile of MSC under Inflammatory Stimuli.

Awards- The Samuel D. Colella Award

2013-present Research Advisor: **Sool Lee**, Undergraduate Biochemistry Major: Scholarly Project: Molecular Switch in Fibrosis.

2014- 2016 Research Advisor: **Rachel Whalen**, Undergraduate Biology: Scholarly Project: Role of Heat Shock Proteins in Modulating ECM Deposition

2015- Present Research Advisor: **Brandon Lantonio**, Undergraduate Neuroscience: Scholarly Project: 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- Present Research Advisor: **Madison Brannon**, Undergraduate Biology: Scholarly Project: Psychosocial Behavioral Effects on Type 2 Diabetic Wounds

2016- Present Research Advisor: **Elizabeth Schmele**, Undergraduate Biology: Scholarly Project: Psychosocial Behavioral Effects on Chronic Wounds

National Mentoring

2010-2011 **Diep Vuong**; Chaminade University, HI
2010-2011 **Venki Ramakrishnan**; University of Maryland, Baltimore County, MD
2010-2011 **Chelsea Saito-Reis**; Chaminade University, HI
2010-2011 **Brandon Young**; University of Maryland, Baltimore County, MD
2010-2011 **Jainee Lewis**; San Francisco State University, CA
2011-2013 **Joyce C. Ohiri**; University of Maryland, Baltimore County, MD
2011-2013 **David Thomas**; Georgia Gwinnett College, GA
2012-present **Shantell Phillips**; Texas Southern University, TX
2012-present **Evelyn Reid**; Medgar Evers College-CUNY, NY
2015-present **Liliana Espinoza**; St. Mary's University, San Antonio, TX

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 PhD, MSN, RN**, Assistant Professor Health Promotion & Development, University of Pittsburgh

2016-present **Jason Dechant PhD, MA**, Assistant Professor, Health Promotion & Development. University of Pittsburgh

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, Univeristy 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 **Co-Director** of McGowan Institute Injury, Repair and Regenerative Medicine Seminar Series- Biweekly
- 2016 **Committee Member**-McGowan Institute for Regenerative Medicine- CATER Trainee Admission and Evaluation Committee

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
- 2017 **Course Development:** Clinical Research and Diagnostics Honors Course

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- **Member-** Council - American Society of Investigative Pathology
- 2015- **Co-Chair and Instructor-F TROOP: Roadmap to Fellowship Grant Applications-** American Society for Investigative Pathology
- 2016- **Steering Committee Member,** Pathobiology for Investigators, Students, Academicians Meeting,
- 2016 **Chair-** Workshop Career-Choice Opportunities in Science and Networking Efficiently
- 2016 **Member,** Task Force Member for Strategic Planning, American Journal of Pathology,
- 2017 **Member,** Organizing committee
- 2018 **Member,** Scientific Committee, 22 annual Regenerative Medicine Workshop

Community Service

- 2007-present Wise Scholars Foundation, Tuskegee, AL
- 2007-present Pittsburgh Youth Development Project, Pittsburgh, PA
- 2011-present Pittsburgh ALS Foundation, Pittsburgh, PA
- 2015- Susan G. Komen Breast Cancer Fundraiser and Walk, San Diego, CA
- 2015- Sunday Service weekly lecture/discussion forum in the First Unitarian Church of Pittsburgh in Shadyside- Title: Nonhealing Wounds
- 2016 Women in Bi- Young Scientist Experimental Day-Carnegie Science Center, PA

2016 Elementary Career Day, Bowie, MD