

CURRICULUM VITAE

Jean Johanna Latimer

Current Positions

- 2016** Director, AutoNation Institute for Breast Cancer Research and Care
- 2011** Associate Professor
Department of Pharmaceutical Sciences
College of Pharmacy
Health Professions Division
Nova Southeastern University
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E-mail: jean.latimer@nova.edu
- Adjunct Professor
Department of Obstetrics, Gynecology and Reproductive Sciences
Division of Gynecologic Oncology
University of Pittsburgh School of Medicine

Previous Positions

- 1993-1995** Visiting Professor
Department of Human Genetics
Graduate School of Public Health University of Pittsburgh
- 1993-2005** Assistant Investigator
Magee-Womens Hospital Research Institute
- 1997-1998** CME Course Coordinator
Comprehensive Breast Care Center
Magee-Womens Hospital/University of Pittsburgh Medical Center
- 1998-2008** Faculty, Molecular Genetics and Biochemistry Program
Interdisciplinary Biomedical Graduate Program University of
Pittsburgh Schools of the Health Sciences
- 2000-2005** Faculty, Molecular Toxicology Program
Interdisciplinary Biomedical Graduate Program
University of Pittsburgh Schools of the Health Sciences
- 1993-2011** Assistant Professor
Division of Gynecological Oncology
Department of Obstetrics, Gynecology and Reproductive Sciences
University of Pittsburgh Cancer Institute
- 1994-2011** Member, Program in Molecular and Cellular Carcinogenesis
University of Pittsburgh Cancer Institute

1995–2011 Member, Comprehensive Breast Care Center
Magee-Womens Hospital/University of Pittsburgh Medical Center

1996–2011 Member, Pittsburgh Tissue Engineering Initiative

2005–2011 Member, Center for Environmental Oncology
University of Pittsburgh Cancer Institute

Member, McGowan Institute for Regenerative Medicine

2006–2011 Faculty, Cellular and Molecular Pathology Program
Interdisciplinary Biomedical Graduate Program University of
Pittsburgh Schools of the Health Sciences

Member, Program in Stem Cell Biology
University of Pittsburgh Cancer Institute

2010–2011 Adjunct Professor
Department of Biological Sciences
Bayer School of Natural and Environmental Sciences
Duquesne University

Education

1978–1982 **B.A.**, Cornell University
(Cell Biology)

1982–1989 **Ph.D.**, State University of New York at Buffalo,
Roswell Park Cancer Institute Division (Molecular
Biology, Cell Biology)

Advisor: Dr. Heinz Baumann
Professor of Cellular and Molecular Biology

Thesis: Evolution of Alpha₁-Antitrypsin Gene: Expression, Structure and
5' Flanking Regions in *Mus caroli* and *Mus domesticus*

1989–1993 Post-Doctoral Fellow/Post-Graduate Researcher Laboratory of
Radiobiology and Environmental Health University of
California, San Francisco

Mentors: Dr. Roger A. Pedersen
Professor of Radiology and Anatomy

Dr. James E. Cleaver
Professor of Dermatology and Pharmaceutical Chemistry

Scholarships, Fellowships, and Awards

- 1986–1987 Rotary International Graduate Scholarship
- 1989–1992 National Institute of Environmental Health Sciences (NIEHS) Post-Doctoral Traineeship
- 1991 University of California, San Francisco/Lawrence Livermore National Laboratory
Program in Analytical Cytology Research Award
- 1994 Ruth Estrin Goldberg Memorial Award for Cancer Research
- 1999 Project Award, “Live-Cell Microscopy”, University of British Columbia Confocal Microscopy
Summer Program
- 2001 Department of Defense Concept Award for Breast Cancer Research
- 2008 Hillman Scholar Award, University of Pittsburgh Cancer Institute
- 2010 Cancer Research Award, Ladies Auxiliary, Veterans of Foreign Wars of Pennsylvania
- 2017 Laboratory Legend, Bioptechs, Inc.
- 2018 Nominee Professor of the Year, College of Pharmacy
Finalist Professor of the Year, College of Pharmacy

Outstanding Community and Fundraising Service, Nova Southeastern University
- 2019 Rho Chi National Pharmacy Honor Society in the Nova Southeastern University College of
Pharmacy’s Rho Chi Gamma Theta chapter

Awards for students and trainees:

- 1995 McClenahan Fellowship to resident **Lisa C. Flowers**, M.D.

Delta Omega Thesis Dissertation Award, Department of Human Genetics, University of
Pittsburgh to M.S. student **Kelly A. Beaudry-Rodgers**
- 1996 McClenahan Fellowship to chief resident **Jason M. Dimsdale**, M.D.
- 1997 McClenahan Fellowship to resident **Thomas P. Morrissey**, M.D.

Resident’s Day Research Award to chief resident **Jason M. Dimsdale**, M.D.
- 2001 Director’s Award for Scientific Excellence and Potential, Cancer Control Category,
University of Pittsburgh Cancer Institute Annual Retreat to M.S. student **Michael J.
Forlenza**

Certificate of Merit, Department of Biological Sciences, Carnegie Mellon University to
student intern **Gretchen A. Reinhart**

Winner, Travel Award to attend the American Association of Cell Biology Annual
Meeting to student intern **Gretchen A. Reinhart**

Winner, Best Poster Award, Annual Meeting of the International Infectious Disease
Society for Obstetrics and Gynecology, technician **Michael Nicolazzo**

- 2002** 1st Prize, Junior Division, Outstanding Poster Presentation, to M.D./Ph.D. student **Jennifer M. Johnson**, Annual University of Pittsburgh/Carnegie Mellon University M.D./Ph.D. Program Retreat, Wheeling, West Virginia
- Pre-doctoral Grant Award, Department of Defense Congressionally Directed Medical Research Programs, to graduate student **Jennifer M. Johnson**
- Winner, Pittsburgh Competition Intel International Science and Engineering Fair to **Seraphim R. Thornton**, high school student intern
- National finalist, Intel International Science and Engineering Fair, to **Seraphim R. Thornton**, high school student intern
- 2004** Dissertation Award, Susan G. Komen Breast Cancer Foundation, to student **Jennifer M. Johnson**, graduate student
- 2007** Silverman Prize for Top Female Chemistry Major at the University of Pittsburgh to student intern **Nancy A. Lalanne**, undergraduate student
- 2016** Registration and Travel Award 9th AACR Conference on the Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved to graduate student **Omar Ibrahim**, graduate student
- 2018** Broward County Science Fair 1st Place, Cellular and Molecular Biology and Biochemistry **Schaefer Grant**, high school student intern
- State Science and Engineering Fair of Florida (STEM competition) 3rd Place, Cellular and Molecular Biology and Biochemistry, **Schaefer Grant**, high school student intern
- Nova Southeastern University Health Professions Division Research Day, Outstanding Podium Presentation, **Abdullah Alhamed**, graduate student
- 2019** Florida Society of Clinical Oncology (FLASCO) travel award to **Jennifer Tejada**, PharmD. student
- Florida Society of Clinical Oncology (FLASCO) travel award to **Mio Ezura**, PharmD. student

Professional Activities

Panel Memberships

- 1999–2001** Committee to Study Technologies for the Early Detection of Breast Cancer
U.S. Institute of Medicine/National Cancer Policy Board
- 1999–2000** Advisory Panel on Interactive Health Communication (IHC) Environmental Scan for Allegheny County, Allegheny County Department of Health
- 2004, 2005** Research Funding Priorities Taskforce
Susan G. Komen Breast Cancer Foundation
- 2006–2008** Special Research Initiatives Strategy Team
California Breast Cancer Research Fund
- 2007** Process Revision Taskforce
Susan G. Komen For the Cure
- 2009** Expert Panel: Chemicals Policy and Breast Cancer Project
California Breast Cancer Research Program

2020 Florida Komen Foundation Breast Cancer Research Program

Society Memberships

Past: American Association for the Advancement of Science
American Society of Human Genetics
Genetics Society of America
Society for Developmental Biology

Present: American Association for Cancer Research
American Society of Human Genetics
Environmental Mutagen Society
Society of Regenerative Medicine and Stem Cell Biology
Women in Cancer Research

Editorial Boards

International Journal of Medical and Clinical Research
Women's Health, Issues, and Care

Manuscript Reviewing

Cancer Chemotherapy and Pharmacology
Cancer Epidemiology, Biomarkers and Prevention
Cancer Research
Clinical Cancer Research
European Journal of Medicinal Chemistry
Experimental Biology and Medicine
Journal of Biological Chemistry
Journal of Pharmacy and Pharmacology
Proceedings of the National Academy of Science (USA)
Toxicology In Vitro
Experimental Cell Research
Cancer Biomarkers
Women's Health, Issues and Care
Plos One

Scientific Meetings

Organizer

- 1994 *Pittsburgh Experimental Mammalian Embryology Minisymposium*, Magee-Womens Research Institute, Pittsburgh, Pennsylvania
- 1996 *Basic and Translational Research in Breast Cancer Minisymposium*, Magee-Womens Research Institute, Pittsburgh, Pennsylvania
- International Symposium on Womens' Health*, University of Toronto, Toronto, Canada
- 1997 *Basic and Translational Research in Breast Cancer Minisymposium*, Center for Environmental and Occupational Health and Toxicology, Pittsburgh, Pennsylvania
- 1998 *Chatauqua Breast Cancer Symposium*, Chatauqua Institution, Lake Chatauqua, New York
- 2004 Reviewer, Cancer Genomics Section, Cellular Molecular and Tumor Biology Subcommittee, Program Committee for the annual meeting of the *American Association for Cancer Research*, Orlando, Florida

Moderator

- 1995** Round Table: “Women’s Cancer Research: A Local Perspective” at the *6th Annual Pittsburgh Cancer Conference: Innovations in Cancer Care*, Pittsburgh, Pennsylvania

Invited Speaker

- 1991** Department of Molecular Biology and Biochemistry, Institute for Biological Research, Sinisa Stankovic, Belgrade, Yugoslavia

- 1993** Workshop on DNA Repair Genes, Annual meeting of the *American Society of Human Genetics*, San Francisco, California

Gordon Conference on Mammalian DNA Repair, Oxnard, California

- 1994** *Pittsburgh Experimental Mammalian Embryology Minisymposium*, Magee-Womens Research Institute, Pittsburgh, Pennsylvania

- 1996** *Basic and Translational Research in Breast Cancer Minisymposium*, Magee-Womens Research Institute, Pittsburgh, Pennsylvania

International Symposium on Womens’ Health, University of Toronto, Toronto, Canada

- 1997** *University of Pittsburgh Cancer Institute Retreat*, Cancer University of Pittsburgh, Johnstown, Pennsylvania

Basic and Translational Research in Breast Cancer Minisymposium, Center for Environmental and Occupational Health and Toxicology, Pittsburgh, Pennsylvania

Twentieth Annual San Antonio Breast Cancer Symposium, Cancer Therapy and Research Center, San Antonio, Texas

Department of Biological Sciences, Tulane University, New Orleans, Louisiana

- 1998** *Pittsburgh Tissue Engineering Initiative Retreat*, Center for Biotechnology and Bioengineering, University of Pittsburgh, Pittsburgh, Pennsylvania

Chatauqua Breast Cancer Symposium, Chatauqua Institution, Lake Chatauqua, New York

Breast Cancer SPORE meeting, Lombardi Cancer Institute, Georgetown Medical School, Washington, D.C.

- 1999** Annual meeting of the *American Association for Cancer Research*, Philadelphia, Pennsylvania

- 2001** Annual meeting of the *American Association for Cancer Research*, New Orleans, Louisiana

Annual meeting of the *American Society for Clinical Oncology*, San Francisco, California

Fox Chase Cancer Institute, Philadelphia, Pennsylvania

Evanston Northwestern Healthcare Research Institute, Chicago, Illinois

- 2002** Institute of Medicine/National Cancer Policy Board Committee to Study Technologies for the Early Detection of Breast Cancer, Washington, D.C.

- 2004** *Sixth Annual Midwest DNA Repair Symposium*, University of Kentucky, Lexington, Kentucky

- 2005** Division of Pharmaceutical Sciences, School of Pharmacy, Duquesne University, Pittsburgh, Pennsylvania,
Department of Defense Breast Cancer Research Program Era of Hope Meeting, Philadelphia, Pennsylvania
Stem Cell Retreat, University of Pittsburgh Cancer Institute, University of Pittsburgh,
Greensburg, Pennsylvania
- 2006** *Society of Toxicology, Allegheny-Erie Chapter*, Duquesne University, Pittsburgh, Pennsylvania
McGowan Institute for Regenerative Medicine Retreat, Seven Springs, Pennsylvania
- 2008** *Department of Defense Breast Cancer Research Program Era of Hope Meeting*, Baltimore, Maryland
- 2010** Division of Basic Medical Sciences, School of Medicine, Mercer University, Macon, Georgia
- 2011** *Department of Defense Breast Cancer Research Program Era of Hope Meeting*, Orlando, Florida
NSU Speaker's Forum, Nova Southeastern University, Fort Lauderdale, Florida, June 24, 11
- 2012** *NSU Ambassadors Board Presentation*, Fort Lauderdale, Florida, December 13, 2012
Royal Dames of Cancer Research Event, NSU Oceanographic Institute, Fort Lauderdale, Florida
- 2013** *Florida Breast Cancer Foundation Education and Advocacy Day Conference*, Palm Beach
Gardens, Florida, January 19, 2013
- 2014** *TED x NSU Game Changers*, Nova Southeastern University, March 29, 2014
Florida Breast Cancer Foundation Education, Advocacy and Fund-Raising Conference, Newport
Beach, Florida, May 3, 2014
Department of Pharmaceutical Sciences Faculty Development, Fort Lauderdale, Florida, May 21, 2014
- 2015** *Emerge Americas*, Miami Beach, Florida, May 4, 2015
Meharry Medical College, Grand Rounds, November 11, 2015
NSU Faculty Symposium, Fort Lauderdale, Florida, November 5, 2015
Institute for Neuro-Immune Medicine Seminar Series, Nova Southeastern University, December 4, 2015
- 2016** *Interprofessional Breast Cancer Thinktank*, Fort Lauderdale, Florida, March 28, 2016
Joint Research Minisymposium: Department of Pharmaceutical Sciences and Cell Therapy Institute, Nova
Southeastern University, Fort Lauderdale, Florida, March 15, 2016
NSU Cell Therapy Institute Research Day, Nova Southeastern University, Fort Lauderdale, Florida, March 31,
2016
Sarah Canon Institute, HCA, "Epigenetic control of DNA repair and somatic mutation in breast cancer," April
21, 2016
AutoNation Lunch and Learn, AutoNation Building, Fort Lauderdale, Florida, October 11, 2016
Speaker for the Chinese Research Delegation for Health Professions, Nova Southeastern University, College of
Osteopathic Medicine, December 14, 2016

- 2017** *Department of Pharmaceutical Sciences Colloquium*, Prognostic tests and pharmacogenomics of breast tumors, January 23, 2017
- Womens' Philanthropy Tea*, Breast Cancer Prevention Strategies, January 26, 2017
- BioFlorida Presentation*, April 20, 2017
- Womens' Philanthropy Tea*, Tumor Genomics, Steve Jobs and Breast Cancer Outcomes, October 3, 2017
- Bosom Buddies Baptist Health systems 20th anniversary meeting*, (200 consumers/survivors from Miami Dade, Broward and West Palm Beach and their families) Title: Update on the Cancer Moonshot and Breast Tumor Genomics, October 19, 2017
- 2018** *American Cancer Society*, Title: AutoNation Institute Breast Cancer Projects, August 3, 2018
- Women's Philanthropy Tea*, Circadian Rhythm, DNA Repair and Breast Cancer, October 29, 2018
- 2019** *NSU HPD Research Retreat*, Interdisciplinary Projects of the AutoNation Cancer Institute, February 1, 2019
- NSU Fellows Society, Planned Giving Council, Breast Cancer Treatment Targeting, October 17, 2019
- Invited Speaker*, Lunch and Learn, Nova Southeastern University, Cancer Prevention Strategies in Daily Life, October 23, 2019
- Invited Speaker, Learn at Lunch, AutoNation Headquarters*, Fort Lauderdale, FL, Science & The Human Side of Breast Cancer, October 29, 2020
- Lecturer*, Fall Classic Continuing Education Lecture for Pharmacists, Breast Cancer Treatment & Gene Targeting, Nova Southeastern University, November 2, 2019
- Invited Speaker*, ECI Pharmaceuticals Break to Educate, December 10, 2019
- Invited Speaker, Rotary Club of Fort Lauderdale*, December 17, 2019
- 2020** *Invited Speaker, Inaugural Broward Health Oncology Symposium*, May 16, 2020

Institutional Service

- 1996–2007** Member, Library Committee, Magee-Womens Hospital
- 1996–2008** Member, Comprehensive Breast Care Center Oversight Committee, Magee-Womens Hospital/University of Pittsburgh Medical Center
- 1997–1998** Chairperson, Comprehensive Breast Care Center Continuing Medical Education Committee, Magee-Womens Hospital/University of Pittsburgh Medical Center
- 1997–2000** Member, Tissue Procurement Committee, Magee-Womens Hospital
- 1999–2003** Co-Chairperson, Breast Cancer Translational Research Thinktank, University of Pittsburgh Cancer Institute
- 2000–2001** Member, Steering Committee, Magee-Womens Research Institute
- 2006** Member, High Risk Breast Cancer Clinic Oversight Committee, University of Pittsburgh Medical Center

University Service

- 2001–2004 Chairperson, Tissue Procurement Committee, Magee-Womens Hospital
- 2005 Member, University of Pittsburgh Medical Center Health Sciences Tissue Procurement Committee
- 2008–2011 Member, University of Pittsburgh Faculty Assembly
- 2012–2015 Member, Nova Southeastern University Faculty Council
President’s Research Taskforce, Nova Southeastern University
- 2015-2019 President’s Research Advisory Board, Nova Southeastern University
- 2015-2016 President’s Ph.D. Programs Assessment Task Force, Nova Southeastern University
- 2016–2019 Translational Research and Economic Development Executive Committee
- 2019-2020 NSU Research Space Allocation Committee

College of Pharmacy Service

- 2011–2015 Member, Student Progress Committee, College of Pharmacy, Nova Southeastern University
- 2013–2015 Community Task Force, College of Pharmacy, Nova Southeastern University
- 2014 Search Committee, Associate Dean for Research and Graduate Studies, College of Pharmacy, Nova Southeastern University
Strategic Planning Committee
- 2015 Faculty Development Committee
Chairperson, Research Committee
- 2016–2022 Research Committee Member
- 2020-22 Recruitment Committee
- 2019-2020 Co-Team Leader, Visionary Education Strategic Planning for the NSU College of Pharmacy
- 2021 Accreditation Subcommittee of Physical Facilities and Educational Resources for Standard 21

Departmental Service

- 1994–1995 Lecturer in Resident Course on Basic Research Techniques, Department of Obstetrics, Gynecology and Reproductive Health, University of Pittsburgh
- 1995–1999 Member, Basic Research Employee Evaluation Committee, Magee-Womens Research Institute
- 1995, 1997 Member, Summer Student Selection Committee, Magee-Womens Research Institute

- 1997–2003 Chairperson, Information Services Committee, Magee-Womens Research Institute
- 1999–2003 Member, Admissions Interviewing Committee, Biochemistry and Molecular Genetics Program, Interdisciplinary Biomedical Graduate Program, University of Pittsburgh
- 2000 Chairperson, Taskforce on Faculty Research Performance Criteria, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh
- 2011–2014 Member, Curriculum and Assessment Committee, Department of Pharmaceutical Sciences, Nova Southeastern University
- 2017-2020 Member, Faculty Development Committee, Department of Pharmaceutical Sciences, Nova Southeastern University

Faculty Mentoring

- 2011 Reviewed NIH grant application for Dr. Robert Speth (NIH).
- 2012 *Faculty Mentor* for Dr. Shara Elrod, National Association of Chain Drug Store Foundation Faculty Scholars Program Grant.
- Faculty Mentor*, Grant Proposal Review, Mentoring for Dr. Alexandra Perez, NIH Loan Repayment Program.
- Mentor in the Research Mentoring Program, Student College of Clinical Pharmacy.
- 2013 *Faculty Mentor*, Grant Proposal Review Mentoring for Dr. Young Kwon, Young Investigator Award AACP
- Grant Proposal Review Mentoring for Dr. Kevin Klausen, National Institutes of Health.
- 2016 Grant Proposal Review Mentoring for Dr. Shannon Murray R01 Bootcamp Review for Drs. Malav Trivedi, Apu Rathinavelu, Umadevi Kandalam.
- 2017 Mentoring of Dr. Jaime Tartar for grant writing
Mentoring of Dr. Alex Perez on her upcoming Fellowship with the University of Pittsburgh.
- 2018 *Panel discussion*, “Federal Agency Reviewer’s Panel,” Grant Writing Workshop, NSU. February 26, 2018
- 2020 Young Kwon grant writing

Institutional Seminars

- 1995 *Magee-Womens Hospital Breast Care Consultation Center Conference*, Magee- Womens Hospital, Pittsburgh, PA
- 1999 *Endocrinology Conference*, Division of Endocrinology and Metabolism, University of Pittsburgh School of Medicine, Pittsburgh, PA
- 2000 Grand Rounds, Magee-Womens Hospital, Pittsburgh, PA
- 2000, 2005, 2010 Research Seminar, University of Pittsburgh Cancer Institute, Pittsburgh, PA
- 2001 Work-in-Progress Conference, Magee-Womens Research Institute, Pittsburgh, PA

- 2005** M.D./Ph.D. Training Program Seminar, University of Pittsburgh School of Medicine, Pittsburgh, PA
- Prostate and Urinary Cancer Program Seminar, University of Pittsburgh Cancer Institute, Pittsburgh, PA
- Departmental Seminar, Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
- 2006, 2008** Center for Environmental Oncology Working Group, University of Pittsburgh Cancer Institute, Pittsburgh,
- 2008** Ovarian Cancer Working Group, Magee-Women’s Research Institute, Pittsburgh, PA
- 2011** Workshop on Grantsmanship: Foundation and National Funding Agencies, Health Professions Division, Nova Southeastern University, Fort Lauderdale, FL (May 3)
- Graduate Seminar, Department of Pharmaceutical Sciences, College of Pharmacy, Nova Southeastern University, Fort Lauderdale, FL (September 1)
- 2012** Health Professions Division Research Day, Nova Southeastern University, Fort Lauderdale, FL (February 10)
- 2016** Graduate Student Seminar, College of Pharmacy, Nova Southeastern University, Fort Lauderdale, Florida
- 2017** Office of Human Resources Retreat, Oceanographic Institute, Nova Southeastern University, Fort Lauderdale, Florida (July 14)
- Nova Southeastern University Levan Ambassadors’ Board Breakfast Talk, Shepard Law Library, Nova Southeastern University, Fort Lauderdale, Florida. (May 11)
- 2018** Workshop, Historical Perspective of Breast Cancer Treatment and Treatment Resistance, Nova Southeastern University – AutoNation Institute for Breast and Solid Tumor Cancer Research Interprofessional Thinktank (April 25)
- 2020** NSU Alumni Webinar (October 1), Updates in Mammography and Breast Cancer Treatment
- NSU Alumni webinar (October 30), Environmental contributors to breast and other cancers (panelist)

Professional Development

- 1996** Workshop on Teaching Effectiveness, Magee-Womens Research Institute
- 1999** Workshop on Supervisory Skills: Core Skills for Building Commitment, University of Pittsburgh Faculty and Staff Development Program
- 1999** Course, “Live-Cell Microscopy”, University of British Columbia
- Course, “Starting a Bio-Technology-Based Venture”, The Continuing Education Program of the Don Jones Center for Entrepreneurship of the Graduate School of Industrial Administration of Carnegie Mellon University
- 2003** Course, “Frontiers in Human Embryonic Stem Cells”, Pittsburgh Development Center, University of Pittsburgh
- 2008** Course, “Preparing for Critical Changes in Scholarly Publishing”, Health Sciences Office of Academic Career Development, University of Pittsburgh

- 2009** Course, “Time Management”, Health Sciences Office of Academic Career Development, University of Pittsburgh
 Faculty Senate Plenary Session Training: The Future of Academic Publishing
- 2010** CourseWeb (Blackboard) Standard Workshop
- 2011** WebCT Faculty Workshop
 Post Award Training “Managing Your Sponsored Project”
- 2012** Workshop on “Admissions in the College of Pharmacy: From PharmCAS to Acceptance”
 Workshop on “Writing Presidents Faculty Research Development Grant (PFRDG) Proposals”
 Workshop on “Getting Your Papers Published”
 Workshop on “Working with NSU’s Office of Public Affairs and the Media”
 Workshop on “Ariba Coordinators and Approvers Approval Training”
 Workshop on “Banner Training”
 Workshop on “NSU Vision for 2020: Research Programs and Developments”
 Workshop on “Trends in Drug Development to Address Globalization, Costs and Transparency”
 Workshop on “Strategies for Developing Fundable Research Programs and Grant Proposals”
 Workshop on “Tricks and Tips for Strengthening your Grant Proposals”
 Workshop on “Teaching Millennials”
 Workshop on “Integration of Technology in the Classroom”
 Workshop on “Enhancing Classroom Attendance”, Policies, Challenges and Strategies”
 Workshop on “SofTest for IPAD”
- 2013** Workshop on “Workplace Safety”
 Workshop on “Ariba Training”
- 2014** Workshop on “Performance Management Phase II”
 Workshop on “Kronos”
 Workshop on “Post Grants Management”
- 2015** Workshop on Blackboard, Feb 26, Disantis
- 2016** Continuing Education Program, "Safe Transportation of Hazardous Materials," Nova Southeastern University Faculty Development, (May 5)
- 2016** Blackboard Training and Certification, (June 24)
 Continuing Education Program, "Fire and Laboratory Safety," Office of Facilities Management, Nova Southeastern University, (November 30)

- Workshop, "Gear Up – Power Publishing," Nova Southeastern University – Alvin Sherman Library, Fort Lauderdale, FL, USA, (January 28)
- 2017** Continuing Education Program, "Best of San Antonio Breast Cancer Symposium Official Review," Cleveland Clinic Florida, Hollywood, Florida, United States, (January 13)
- Nanostring Technology Information, (March 15,)
- Leadercast NSU - Leadership Development Conference, NSU, Fort Lauderdale, Florida, (May 5)
- NSU Environmental Health & Safety Orientation Training Class, NSU, Fort Lauderdale, Florida, (May 11)
- Partek RNA Sequencing Data Analysis Training, NSU Fort Lauderdale, Florida, (July 31)
- Title IX Training and Certification, (November 15)
- Conference Attendance, "Hispanic-focused STEM: Ideas for Inspiration and Innovation (HSI3) Conference," National Science Foundation, Fort Lauderdale, Florida, United States. (December 11, 2017 - December 12, 2017).
- Zeiss Observer Training (August 28)
- Kronos Supervisor Training
- 2018** Seminar, Ph.D. Defense: Ancestral Dependence of Breast Stemness and Nucleotide Excision Repair in Breast Cancer Stem Cells in Novel Human Model Systems," Nova Southeastern University – College of Pharmacy. (January 5).
- Annual Radiation Safety Training, NSU, Fort Lauderdale, Florida. (January 10)
- Best of San Antonio Breast Cancer Symposium Official Review-Cleveland Clinic Florida, Fort Lauderdale, Florida. (January 13).
- Health Professions Division Faculty Development: Site directed case learning using PBL. (January 22).
- Conference Attendance, "Karolinska Collaborative Research MiniSymposium," Nova Southeastern University – Cell Therapy Institute. (January 26).
- Conference Attendance, "Health Professions Research Day," Nova Southeastern University – Health Professions Division. (February 16).
- Conference Attendance, "Research Advisory Committee on Gulf War Veteran's Illnesses," U.S. Department of Veterans Affairs, Davie, Florida, USA. (March 20).
- Seminar, Ph.D. Seminar Series: The Role of NER in Breast Cancer Progression: A Strategy to Overcome Drug Resistance, Nova Southeastern University – College of Pharmacy. (April 13)
- Workshop, "Historical Perspective of Breast Cancer Treatment and Treatment Resistance," Nova Southeastern University – AutoNation Institute for Breast and Solid Tumor Cancer Research Interprofessional Thinktank. (April 25).
- Seminar, Ph.D. Defense: Role Oxidative Stress in Autism In Silico, In Vitro and Clinical Studies, Nova Southeastern University – College of Pharmacy. (April 27)
- Continuing Education Program, "Enhancing Teaching Activity: Canvas Training," Nova Southeastern University. (July 10).
- 2018** Research Workshop - Targeting the Tumor Microenvironment in Radiation Oncology. (July 26 and 27)
- American Cancer Society Action Network, The costs of cancer. (September 12)

- 2019** Best of San Antonio Breast Cancer Symposium Official Review-Cleveland Clinic Florida Fort Lauderdale, Florida. (January 19)
- Radiation Safety Training (January)
- Genetic and Environmental Factors Affecting Autism Spectrum Disorder (May 9)
- Ariba Workshop (September 10)
- Professional Student Interview Training, Faculty Development and Scholarship Meeting (October 16)
- Canvas Training (November 21)
- 2020** Emotional wellbeing during challenging times (November 20)
- Blend Flex Training
- Preparing Exam Questions for Examsoft
- 2021** Advancing Health Equity in Breast cancer (April 29)
- RightFax (Electronic Faxing) Training (May 18)
- Ariba Training (May 2021)
- Refresher in Grant Writing (University of Kentucky) June 10-11, 2021

Community Service

- 1995** Speaker, “Young Women in Science Day”, University of Pittsburgh
- 1996, 2000** Speaker, “A Celebration of Women”, Pittsburgh, Pennsylvania
- 1996, 1997** Host, Governor’s School Day, Magee-Womens Research Institute, Pittsburgh, Pennsylvania
- 1998** Speaker, “Expanding Your Horizons” Conference, Duquesne University, Pittsburgh, Pennsylvania
- 2000** Speaker, “*Recent Findings in Breast Cancer Research*” Source of Life Awards, Magee-Womens Hospital, Pittsburgh, Pennsylvania
- Discussant, *American Cancer Society* “Relay for Life”, McKeesport Area High School, McKeesport, Pennsylvania
- Discussant, Breast Cancer, *On Q Magazine*, WQED/PB
- 2001** Speaker, “A Holistic Conference for Women Business Leaders”, Magee-Womens Hospital, Pittsburgh, Pennsylvania
- Speaker, “*Environmental Influences on Women’s Cancer*”, WASTE (Women Assessing the State of the Environment” Summit, Chatham College, Pittsburgh, Pennsylvania
- 2001, 2002** Advocate Training, “*The Science of Breast Cancer*”, Keystone Breast Cancer Conference, Annual meeting of the *Pennsylvania Breast Cancer Coalition*, Harrisburg, Pennsylvania
- 2002** Speaker, *American Cancer Society* “Relay For Life”, McKeesport Area High School, McKeesport, Pennsylvania
- Speaker, “*Breast Cancer: Past/Present/Future*”, 10th Anniversary Komen Pittsburgh

- Race For The Cure Educational Symposium, Pittsburgh, Pennsylvania
- 2004** Keynote Speaker, “*Voices 2004*”, WISE (Women in Science and Engineering) Conference, Pennsylvania State University, State College, Pennsylvania
- 2005** Speaker, “*Genetic Basis of DNA Repair Deficiency in Sporadic Breast Cancer*”, A Promise In Action—the Eighth Mission Conference of the Susan G. Komen Breast Cancer Foundation, Washington, D.C.
- 2006** Lecturer, Pennsylvania Governor’s School for Health Care, Maternal-Child Concentration Course
- 2007** Speaker, “*Ovarian Cancer and Environmental Risk Factors*”, National Ovarian Coalition/Gilda’s Club, Pittsburgh, Pennsylvania
- Discussant, Environmental Oncology, *On Q Magazine*, WQED/PBS
- 2012** Speaker, “*Breast Cancer Risks: Environmental and Lifestyle*”, Sword of Power Ministry, Fort Lauderdale, FL, January 14, 2012
- Speaker, “*A Cell Model System for Breast Cancer*”, 10th Annual Day of Research and Hope, National Ovarian Coalition/Gilda’s Club, Fort Lauderdale, FL, March 2012
- 2013** Featured Speaker, “*Cancer Risk and the Environment*” Higher Place Ministry, Fort Lauderdale, Florida
- 2015** Featured Speaker, “How to design a research project as a resident “NSU Broward Health Medical Residents Program, Fort Lauderdale, Florida
- 2016** Featured Speaker, “Major Priorities in Cancer Research and How These Relate to Major Priorities at AutoNation Institute” NSU Alumni Event Orlando (Law, Medicine and Pharmacy Alumni)
- 2017** Featured Speaker, “*Ancestry and Cancer, what we know.*” NSU American Cancer Society Race for the Cure, Fort Lauderdale, Florida
- Featured Speaker, “How Does Breast Cancer Pharmacogenomics relate to the Cancer Moonshot?” Gilda’s Club, Fort Lauderdale, Florida
- Featured Speaker, “How Does Breast Cancer Pharmacogenomics work?” NSU, Office of Human Resources Retreat, Fort Lauderdale, Florida
- USchool 8th grade class tour of the CCR Core facilities and AutoNation Laboratory
- Athletics Night, College of Pharmacy Speaker
- 2018** USchool High School Science Honor Society 3 tours of 20 kids plus teachers, January 30, 2018
- Breakers Hot Pink Luncheon, Breast Cancer Research Foundation, February 8, 2018
- Career Connections USchool Middle School, February 9, 2018
- Breast Cancer Research Fund, June 7, 2018
- Gilda’s Club Day of Wellness, June 9, 2018
- Adena Farms Presentation, November 5, 2018
- Pink for Life (Uschool), November 26, 2018
- Israeli Research Delegation (Zedek and Lippman), November 27, 2018

- 2019** Visiting Slovak Pharmacy Students and faculty tour of the CCR facilities and AutoNation Institute Laboratory, September 13, 2019
- Speaker, NSU Planned Giving Council Meeting, October 17, 2019
- AutoNation Booth*, The Faith Center GMA Ministry Health Fair, October 20, 2019
- Speaker, NSU Lunch and Learn, “Avoiding Cancer through Nutrition,” October 23, 2019
- Invited Panelist AutoNation Learn & Lunch, ‘Science and the Human Face of Cancer,’ October 29, 2019
- AutoNation Booth*, Futures Summit, Nova Southeastern University, College of Pharmacy, November 12, 2019
- Invited Speaker, Rotary Club of Fort Lauderdale. 140 Businessmen and women as well as professionals from Fort Lauderdale, December 17, 2019
- 2020** Valencia College Pharmacy Fair, Oct. 22, 2020
- First Annual AutoNation Breast Cancer Walk, Oct. 24, 2020 with TEM as sponsor and Fritz Kohler, Author and breast cancer survivor

Media Coverage

Press Releases

- 1999** “University of Pittsburgh Cancer Institute Team is the First to Uncover Role of Faulty DNA Repair in Breast Cancer” as reported at the 1999 annual meeting of the *American Association for Cancer Research*, Philadelphia, PA (see Abstract #35)
- 2008** “Breast Cancer Disparities In Minority Communities Highlighted at 2008 Era of Hope Meeting: Studies Examine Stem Cell Differences between African American and White Women and also Risk Factors in Hispanic Women” as reported at the 2008 Era of Hope Meeting, Baltimore, MD (see Abstract #87)
- 2010** “Cancer Researchers in Pittsburgh Identify Method of Blocking Cancer Stem Cell Differentiation, Could Lead to More Effective Treatment” as reported in *Stem Cells* **28**: 1008—1018 (see Journal Article #17)
- “Sporadic Breast Cancers Start with Ineffective DNA Repair Systems, Pitt Researchers Find” as reported in *Proceedings of the National Academy of Science USA* **50**: 21725—21730 (see Journal Article #22)
- 2015** “DNA repair is high in heart, nonexistent in brain.” Feb. 9, 2015 as reported in **Latimer, J.J.**, *Photochemistry and Photobiology* (published online 11-13-14) doi: 10.1111/php.123. (see Journal Article #26)
- 2018** “NSU Researchers Uncover Genetic Marker, Predictor of Early Relapse in Pediatric ALL” Dec. 13, 2018 as reported in Ibrahim, O., *BMC Medical Genomics* (published online <https://doi.org/10.1186/s12920-018-0422-2>).
- 2019** “South Florida Universities on the cutting edge of cancer research” South Florida Business Journal, January 18, 2019.

Selected Media Coverage

- 1998** Dumbaugh, P. “Inventions spur research.” **Pittsburgh Post-Gazette**, August 9, 1998; NW1.

- 1999 Wilson, L., and Brown, D.M. “Pitt scientists find breast cancer link.” **Pittsburgh Tribune-Review**, April 14, 1999; 111: A1, A14. “Cancer team from the University of Pittsburgh discover difficulty in DNA repair in breast tumors.”
- National Public Radio**, *All Things Considered*, April 1999.
- “UPCI team is first to uncover role of faulty DNA repair in breast cancer” **University Times**, May 27, 1999; 31: 6.
- 2000 Eastman, P. “New IOM Committee: Researchers encouraged by promising approaches to earlier breast cancer detection.” **Oncology Times July** 2000; 22: 66—69.
- 2001 Deacle, S. “Looking at life, businesses in your backyard, An occasional series on high-technology startups in this area and what they do.” **Pittsburgh Post-Gazette**, March 4, 2001.
- Spice, B. “Conventional mammograms still best way to detect breast cancer.” **Pittsburgh Post-Gazette**. March 9, 2001.
- Rubin, R. “Cancer study cites ‘overdiagnosis.’” **USA Today**, March 9-11, 2001.
- Newman, L. “Developing the ideal breast cancer screening test.” **The Scientist**, July 9, 2001.
- Segel, S. “Breast cancer awareness comes early.” **The Jewish Chronicle**, September 20, 2001.
- 2002 Spice, B. “A dozen who are making a difference in health.” **Pittsburgh Post-Gazette**. January 1, 2002; D-1.
- 2008 Sullivan, E. “Enhanced environmental control of live cell microscopy advances breast cancer recurrence research.” **Bioscience Technology**, January 16, 2008.
- 2009 “Newsmaker” **Pittsburgh Tribune-Review**; B2. Ma, K. January 2, 2009.
- 2012 “NSU Research.” **Florida Trend**, March 2012.
- Calderon, L. “Changing Lives”, Digital Movie, Nova Southeastern University, March 2012.
- 2013 McVicar, N. “NSU researchers work to defeat cancer.” **Horizons**, Nova Southeastern University, December 2013.
- 2014 Donor Connection “Game Changers” October 3, 2014.
- Sharkbytes “NSU Research Spotlight: Cancer Research”, Online publication of NSU, August 20, 2014.
- 2015 Press Release Feb 9, 2015, “DNA repair is high in heart, nonexistent in brain” NSU Sharks, NSU College of Pharmacy, “Making an impact-working to defeat cancer at the molecular level”, Spring 2015.
- News brief: DNA Repair Occurs at Different Rates” **Florida Trend magazine** August 2015.
- 2016 “NSU/s mega think tank,” **Gold Coast Magazine** August 2016.
- 2016 NSU Sharks, NSU College of Pharmacy, “Making an impact-working to defeat cancer at the molecular level,” Fall 2016.
- Horizons**, NSU, “Understanding the Center for Collaborative Research”, Fall 2016.
- 2017 NSU Sharks, NSU College of Pharmacy, “Groundbreaking researchers make a difference,” Spring, 2017.

- 2018** NBC Channel 6 Interview, “NSU Researchers Uncover Genetic Marker, Predictor of Early Relapse in Pediatric ALL.” September 13, 2018.
- Brevard Business News, “Nova Southeastern University Researchers uncover genetic marker; predictor of early relapse in pediatric ALL cases.” Dec 31, 2018.
- 2019** South Florida Sun Sentinel, “10 breakthrough innovations in breast cancer treatment and research in South Florida.” October 1, 2019

Funded Grants and Contracts

- 1992–1993** Flow Cytometric Isolation of Differentiated Cell-Types from Embryoid Bodies
University of California Program For Analytical Cytology
\$ 30,000
- 1994–1995** Functional Assays of Genetic Instability in Breast Tumors
Ruth Estrin Goldberg Foundation
\$ 15,000
- 1995–1997** Functional Assays of DNA Repair in Breast, Colon, Endometrial and Ovarian Cancer
Magee-Womens Health Foundation
\$ 18,232
- DNA Repair and Somatic Mutation in Breast Cancer
Irene McClenahan Foundation
\$ 4,331 (JLL mentor)
- 1996–1997** DNA Repair in Ovarian Cancer
Irene McClenahan Foundation
\$ 3,769 (JLL mentor)
- 1996–1999** Increased Metalloproteinase-9 Activity in Human Amniochorion Correlates with Preterm
Premature Rupture of Membranes
March of Dimes Birth Defects Foundation (FY97-0533)
\$ 92,000 (JLL co-investigator)
- 1997–2002** DNA Repair and Breast Cancer
U.S. National Institutes of Health/National Cancer Institute (R29 CA71894-O1A1)
\$ 335,950
- 1997–2002** TNF- α Signaling in Breast Cancer
U.S. National Institutes of Health/National Cancer Institute (R01-CA71727-01)
\$ 375,016 (JLL co-investigator)
- 1997–1998** The Effect of Chemotherapy on DNA Repair in Actively Transcribed Genes in Breast
Cancer
Irene McClenahan Foundation
\$ 4,331 (JLL mentor)

- 1997–1999** Live Breast Cell Imaging
American Cancer Society Institutional Grant to the University of Pittsburgh Cancer Institute (IRG-60-002-39)
\$ 19,000
- 1998–2001** Genotoxicity of Tamoxifen Adjuvant Therapy for Breast Cancer
American Cancer Society (CCE-86131)
\$ 336,614 (JLL co-investigator)
- 1998–2000** Breast Cancer Live Cell Video for Subdividing Same-Stage Tumors
Jewish Healthcare Foundation of Pittsburgh/Aronsen Foundation (D1998-0173)
\$ 59,614 (JLL co-investigator)
- 1998–2000** Developing a Method for Primary Culturing of Human Prostatic Tissue on Heterotypic Matrices Including Matrigel and Bone Marrow Stroma
U.S. Department of Veteran’s Affairs
\$ 150,000 (JLL co-investigator)
- Live Cell Microscopy and Molecular Characterization of Primary Human Mammary Epithelial (HMEC) Cultures
American Cancer Society Institutional Grant to the University of Pittsburgh Cancer Institute (IRG-60-002-39)
\$ 2,500 (JLL mentor)
- 1999–2000** DNA Repair and Somatic Mutation in Breast Cancer
Pennsylvania Department of Health Breast Cancer Check-Off Awards (ME 98-205)
\$ 25,000
- 1999–2002** Oxytocin and Oxytocin Receptor in Human Breast Cancer
U.S. Department of Veteran’s Affairs
\$ 150,000 (JLL co-investigator)
- 2000–2001** Toward Individualized Monoclonal Antibody Radioisotope-Targeted Therapy for Metastatic Breast Cancer
Pennsylvania Department of Health Breast Cancer Check-Off Awards
\$ 28,000 (JLL co-investigator)
- 2001–2003** Molecular Etiology of DNA Repair Deficiency in Novel Non-Tumor Adjacent and Tumor Cell Lines
U.S. Department of Defense Congressionally Directed Breast Cancer Research Program (DAMD17-00-1-0681)
\$ 50,000
- 2001–2002** Modulation of Mammary Epithelial Architecture in Vitro and SERM Testing
Pennsylvania Department of Health Breast Cancer Check-Off Awards
\$ 35,000
- 2002–2004** Development of Live Cell Analysis as a Prognostic Tool for Early Stage Breast Cancer Recurrence
Jewish Healthcare Foundation of Pittsburgh
\$ 90,000

- 2002–2005** Molecular Mechanism of Nucleotide Excision Repair Deficiency in Novel Breast Tumor Cell Lines
Pre-Doctoral Award, U.S. Department of Defense Congressionally Directed Breast Cancer Research Program (DAMD17-94-J-0439)
\$ 18,000 (JLL mentor)
- 2004–2007** Molecular Mechanism of Nucleotide Excision Repair Deficiency in Novel Breast Tumor Cell Lines
Dissertation Research Award, The Susan G. Komen Breast Cancer Foundation (DISS-0040-3112)
\$ 90,000 (JLL mentor)
- 2004–2007** Genetic Basis of DNA Repair Deficiency in Sporadic Breast Cancer
The Susan G. Komen Breast Cancer Foundation (BCTR-04-03329)
\$ 250,000 (JLL co-investigator)
- 2004–2006** Genetic Analysis of DNA Repair Deficiency in Novel Non-Tumor Adjacent and Tumor Cell Lines Suggests a New Paradigm of Breast Cancer Etiology
U.S. Department of Defense Congressionally Directed Breast Cancer Research Program (W81XWH-0401-0686)
\$ 114,000
- 2004–2006** Identification of Stem Cells in a Novel Human Mammary Epithelial Culture (HMEC) System that Reproducibly Demonstrates Ductal Organotypic Architecture
U.S. Department of Defense Congressionally Directed Breast Cancer Research Program (W81XWH-0401-0685)
\$ 114,000
- 2005–2007** A New Paradigm for African American Breast Cancer Involving Stem Cell Differentiation in a Novel Cell Culture System
U.S. Department of Defense Congressionally Directed Breast Cancer Research Program (W81XWH-0501-0581)
\$ 114,000
- 2005–2008** Evaluation of Environmental Agents for Prevention of Breast Cancer using a Novel Tissue Engineering System for Human Breast
The Susan G. Komen Breast Cancer Foundation
\$ 100,000
- 2005–2007** Breast Cancer Prevention by Apoptosis Induction in DCIS using Breast Ductal Lavage U.S. Department of Defense Congressionally Directed Breast Cancer Research Program (DAMD17-02-1-0683)
\$ 114,000 (JLL co-investigator, Koty PI)
- 2006–2008** Use of a Unique 3-Dimensional Human Mammary Stem Cell Model to Determine the Role of Environmental Xenoestrogens in African-American Breast Cancer Etiology U.S. Department of Defense Congressionally Directed Breast Cancer Research Program (W81XWH-0601-0659)
\$ 114,000
- 2006–2009** A New Paradigm for African-American Breast Cancer Involving Stem Cell Differentiation in a Novel Human Mammary Epithelial Culture System
The Susan G. Komen Breast Cancer Foundation (POP99806)
\$ 200,000

- 2006–2008** Multiplexed Assay for Early Detection of Breast Cancer
U.S. National Institutes of Health/National Cancer Institute/Avon Foundation (3P30-CA047904-19S1)
\$ 250,000 (JL co-investigator, Lokshin PI)
- 2006–2009** Characterization of Unique Human Ductal Carcinoma in Situ (DCIS) Cell Lines for Identification of Biomarkers of Early Breast Oncogenesis and Progression
U.S. National Institutes of Health/National Institute of Biomedical Imaging and Bioengineering (1T32EB001026-01)
\$25,000 (JL Mentor)
- 2007–2010** Biomarkers of Invasiveness in Racially Disparate Populations using an Isogenic and Progressive Model of Human DCIS
Susan G. Komen For The Cure (DISP0707276)
\$ 300,000
- 2007–2010** Profilin is a Target to Suppress Invasive Breast Cancer
U.S. National Institutes of Health/National Cancer Institute (RO1-CA108608-02)
\$ 989,732 (JL co-investigator, Roy PI)
- 2007–2010** Oncolytic Adenovirus Expressing sTGF β RIIFc
U.S. National Institutes of Health/National Cancer Institute (RO1-CA127380-01)
\$ 747,403 (JL co-investigator, Seth PI)
- 2008–2010** Quantitative Proteomics of Nuclear Matrix Proteins in Novel Human DCIS Model Systems
U.S. Department of Defense Congressionally Directed Breast Cancer Research Program Synergy Award (W81XWH-0701-0660)
\$ 800,000 (JL co-PI with Day)
- 2009–2011** The Impact of Environmental Xenoestrogens on African American Breast Cancer
The Pittsburgh Foundation
\$ 150,000
- 2010–2012** Red Blood Cell Content of Inorganic and Organic Compounds in Children with Autism and Controls
The Teresa and H. John Heinz III Foundation/The Richard King Mellon Foundation
\$ 700,000 (JL co-investigator, Kingston PI)
- PARP Inhibitor Treatment of Triple Negative Breast Cancer
The Shapira Foundation
\$ 100,000 (JL co-investigator, Pulhalla PI)
- Novel Drugs Targeting Breast Cancer Stem Cells
UPCI Hillman Fund
\$250,000 (JL co-investigator, Prochownik PI)
- Impact of Environmental Xenoestrogens on Precocial Puberty and Breast Cancer
VFW of Pennsylvania Ladies Auxiliary Cancer Research Award
\$20,000
- 2011–2013** Stem Cells and DNA Repair in Childhood Leukemias
West Palm Beach Children's Leukemia Research Association
\$10,000
- The Role of DNA Repair, Genomic Instability and Stem Cells in Leukemia Relapse
Children's Leukemia Research Association, Inc.
\$30,000

- 2012–2013** Breast Epithelial Stem Cell Number and Potency in African American Women
Nova Southeastern University President's Faculty Research and Development Grant
\$10,000
- Molecular Mechanism of DNA Repair Deficiency in Breast Cancer
Nova Southeastern University President's Faculty Research and Development Grant
\$10,000 (JL co-investigator, Grant PI)
- Human Breast Tissue Engineering Model for Environmental Chemical Assessment
Florida Breast Cancer Foundation
\$100,000
- 2014–2015** Novel Transformation Assay to Identify Florida Environmental Breast Carcinogens
Nova Southeastern University President's Faculty Research and Development Grant
\$10,000
- Detailed Molecular Profiling of Sporadic Stage I Breast Cancer
Nova Southeastern University President's Faculty Research and Development Grant
\$10,000 (JL co-investigator, Grant PI)
- 2015-2016** Establishment of a Tissue Bank and Live Cell Bank for Breast cancers from Disparate Populations
AutoNation
\$2,000,000 (JL PI)
- Targeting African American and Ashkenazi Jewish triple negative breast cancers
Nova Southeastern University President's Faculty Research and Development Grant
\$15,000 (JL PI)
- Cytotoxicity of Deepwater Horizon oil/dispersant on human models of breast and blood
Nova Southeastern University President's Faculty Research and Development Grant
\$15,000 (JL co-PI)
- The role of DNA repair in childhood leukemia relapse
Children's Leukemia Research Institute
\$20,000 (JL PI)
- 2016-2021** "Persistently Elevated Somatic Mutation as a Biomarker for Clinically Relevant Exposures in Gulf War Illness"
(Grant S.G., PI, \$581,848) 9/1/16–12/31/21
U.S. Army Medical Research and Materiel Command (GW150152)
Role: Co-Investigator (9% effort)
- "Somatic mutation and DNA repair in Gulf War Illness"
(Latimer co- PI; \$15,000)
President's Faculty Research & Development Grant 6/1/16-5/31/17
Nova Southeastern University
- "Can DNA Repair Capacity in Breast Cancer Stem Cells Predict Recurrence?"
(Latimer, J.J., PI; \$15,000)
President's Faculty Research & Development Grant 6/1/16-5/31/17
Nova Southeastern University

- 2017** “DNA Repair in Elasmobranch Fishes to Assess Cancer Risk”
 Kerstetter, D. (Latimer co-PI; \$15,000)
 President's Faculty Research & Development Grant 6/1/16-5/31/17
 Nova Southeastern University
- “Eradicating Drug Resistance by Targeting Breast Cancer Stem Cells Using miRRA”
 (Latimer, J.J., PI; \$15,000)
 President's Faculty Research & Development Grant 6/1/16-5/31/17
 Nova Southeastern University
- 2018** “Validation of ‘miRRA’, a microRNA that Lowers Functional Nucleotide Excision Repair, as a Therapeutic to Lower Drug Resistance in Late Stage Breast Tumors.”
 (Latimer, J.J., PI; \$150,000) 12/31/18- 1/1/21
 AutoNation Breast Cancer Research Program
 Role: PI (17% effort)
- 2021** “Molecular Analyses of the Five Pathways of DNA Repair in Gulf War Illness”
 (Latimer, J.J., P.I. \$15,000)
 President's Faculty Research & Development Grant 6/1/16-5/31/17
 Nova Southeastern University
- No cost budget extension:
 “Persistently Elevated Somatic Mutation as a Biomarker for Clinically Relevant Exposures in Gulf War Illness”
 (Grant S.G., PI, \$581,848) 9/1/16–12/31/21
 U.S. Army Medical Research and Material Command (GW150152)
 Role: Co-Investigator (9% effort)

Participating faculty on the following training grants:

- 1993–2000** Postdoctoral Fellowship Program in Radiation Sciences
 U.S. Department of Energy (DE PSO1-96EH89678-02)
- 2000–2003** Graduate Training Program in Breast Cancer Biology
 U.S. Army Medical Research and Material Command (DAMD17-94-J-4039)
- 2001–2004** Graduate Training Program in Breast Cancer Therapy
 U.S. Army Medical Research and Material Command (DAMD17-99-J-9352)
- 2002–2004** Cancer Education and Career Development Program, Early Detection Research Network
 U.S. National Institutes of Health/National Cancer Institute (R25-CA89507-01)
- 2008–2012** Cellular Approaches to Tissue Engineering and Regeneration (CATER)
 U.S. National Institutes of Health/National Institute of Biomedical Imaging and Bioengineering (1T32EB001026-01)
- 2008–2012** Medical School Training Program for M.D./Ph.D. students (MSTP) at the University of Pittsburgh
 U.S. National Institutes of Health

Grant Reviewing

Study Section Committee Chairperson

- 2002–2004** Postdoctoral Fellowship Review Panel II
 Susan G. Komen Breast Cancer Foundation
- 2004** Breast Cancer Re-review Committee

- United States Department of Defense
CDMRP Breast Cancer Program
- 2004–2007** Tumor Biology Panel IV (Translational Research and Animal Models)
Susan G. Komen Breast Cancer Foundation/Komen For The Cure
- 2007** Patricia S. Brown Breast Cancer Education Community-Based Demonstration Projects
Health Research Science Board New York State Department of Health
- 2009** Targeted Projects in Human Embryonic Stem Cell Research
Empire State Stem Cell Board
New York State Department of Health
- 2010** Post-Baccalaureate Training in Disparities Research Panel 2
Komen For The Cure
- 2015** American Institute of Biological Sciences, New York State
Chair, Breast Cancer Study Section I
- 2016** American Institute of Biological Sciences, New York State
Chair, Peter Rowley Breast Cancer Study Section
- 2018-20** American Institute of Biological Sciences, New York State
Chair, Peter Rowley Breast Cancer Study Section

Grant Review Committee Membership:

- 1998–2002** Postdoctoral Fellowship Review Panel II Susan G.
Komen Breast Cancer Foundation
- 2001** Cellular Biotechnology and Tissue Engineering Review Panel
United States National Aeronautics and Space Administration
- 2001, 2003** Cell Biology Review Committee United
States Department of Defense CDMRP
Breast Cancer Program
- 2001, 2006** Clinical and Experimental Therapeutics Review Committee II
- 2003** Radiation Biology Review Panel
United States National Aeronautics and Space Administration
- 2003, 2006** Concept Award Review Committee
United States Department of Defense
CDMRP Breast Cancer Program
- 2004–2005** Molecular Biology and Genetics Review Committee II United
States Department of Defense
CDMRP Breast Cancer Program
- 2006, 2008** Clinical and Experimental Therapeutics Review Committee I United
States Department of Defense
CDMRP Breast Cancer Program

- 2006, 2012** Era of Hope Scholars Review Committee
United States Department of Defense
CDMRP Breast Cancer Program
- 2007** Science and Technology Development Program
North Carolina Biotechnology Center
- United States Department of Defense
CDMRP Prostate Cancer Program
- 2008-2009** United States Department of Defense CDMRP Breast Cancer Program
- 2009** Pathobiology Review Committee I United
States Department of Defense CDMRP
Breast Cancer Program
- Special Emphasis Panel: Oncology, Basic and Translational
Challenge Grant Program
United States National Institutes of Health
- 2010** Diagnostic and Prognostic Biomarkers Review Committee 4
Komen for the Cure
- Cellular and Molecular Biology Review Committee
United States Department of Defense
CDMRP Prostate Cancer Program
- Post-Baccalaureate Training in Disparities Research Panel
Komen For The Cure
- 2011** Chemicals Testing Review Committee
California Breast Cancer Fund
- 2012, 2013** Targeted Projects in Human Cancer Stem Cell Research
Empire State Stem Cell Board
New York State Department of Health
- 2013** President's Faculty Research and Development Grant Program
Nova Southeastern University
- President's Distinguished Professor Award of Excellence
Nova Southeastern University
- Breast Cancer Grant Review Panel (Era of Hope Scholar)
United States Department of Defense
CDMRP Breast Cancer Program
- 2014** Breast Cancer Grant Review Panel (Postdoctoral grants)
United States Department of Defense
CDMRP Breast Cancer Program
- Refunds For Research
Pennsylvania Breast Cancer Coalition
Pennsylvania Department of Health
- 2014** Swiss National Science Foundation
- President's Distinguished Professor Award of Excellence
Nova Southeastern University

- 2016 Scientific Peer Advisory and Review Services (SPARS) division of the American Institute of Biological Sciences (AIBS)
Breast Cancer Review Panel
United States Department of Defense

Ad Hoc Reviewer

- 1997 American Cancer Society
2000, 2001 Magee-Women's Health Foundation
2021 Breast Cancer Review Panel
United States Department of Defense

Teaching Experience

Course Director

- 1997–1998 *MWH/UPMC Comprehensive Breast Cancer Seminar Series*
(accredited for Continuing Medical Education)
2000–2006 MSBMG 2530: *DNA Repair, Mutagenesis and Carcinogenesis*
Biochemistry and Molecular Genetics Program
Interdisciplinary Biomedical Graduate Program, University of Pittsburgh
2011–2015 PHRP 7204: *Research Techniques and Instrumentation*
College of Pharmacy Graduate School Program
Nova Southeastern University

Lecturer/Facilitator

- 1986 BIR 517: *Regulatory Mechanisms of Eukaryotic Cells*
Department of Cellular and Molecular Biology
State University of New York at Buffalo, Roswell Park Division
1990 ATY 230: *Developmental Biology*
Department of Anatomy
University of California, San Francisco
1994 EOH 2171: *Introduction to Cellular and Molecular Toxicology*
Department of Environmental and Occupational Health Graduate
School of Public Health, University of Pittsburgh
1995–2006 EOH 2305/HuGen 2046: *Mechanisms of DNA Metabolism, Damage and Repair*
Departments of Environmental and Occupational Health and Human Genetics Graduate
School of Public Health, University of Pittsburgh
1996–1999 2nd Year Medical School Curriculum: *Reproductive and Developmental Biology*
Department of Obstetrics, Gynecology and Reproductive Sciences, University of
Pittsburgh School of Medicine.
1998, 2002 EPI 2711: *Physiology of Women*
2005, 2006 Department of Epidemiology Graduate School of Public Health, University of
Pittsburgh.

- 1999–2009** MSCMP 2730: *Molecular Mechanisms of Tissue Growth and Differentiation*
Cellular and Molecular Pathology Program Interdisciplinary Biomedical Graduate Program,
University of Pittsburgh.
- 2001** MSELCT 52900: *Research Basis of Medical Knowledge*, Medical Scientist Training Program,
University of Pittsburgh and Carnegie Mellon University.
- 2002–2009** MSCMP 3710/MSPHL 3310: *Cancer Biology and Therapeutics*
Cellular and Molecular Pathology and Molecular Pharmacology Programs Interdisciplinary
- 2002–2009** 4th Year Medical School Curriculum: *Neoplasia and Neoplastic Disease*
Department of Medicine
University of Pittsburgh School of Medicine
- 2005** EOH 2175: *Principles of Toxicology*
Department of Environmental and Occupational Health
Graduate School of Public Health, University of Pittsburgh
- 2007, 2009** Ethics Forum, Summer Undergraduate Research Program
Duquesne University/University of Pittsburgh/Pittsburgh Tissue Engineering Initiative
- 2010** BIOL 212: *Cell and Molecular Biology*
Department of Biological Sciences
Bayer School of Natural and Environmental Sciences
Duquesne University
- 2011–2021** PHRP 7204: *Research Techniques and Instrumentation*
Department of Pharmaceutical Sciences
Nova Southeastern University College of Pharmacy
- 2014** PHRL 6730: *Patient Care Management Laboratory III*
College of Pharmacy Professional School Program
Nova Southeastern University College of Pharmacy
- 2012- 2019** PHRC 6250: *Pharmacodynamics V*
College of Pharmacy Professional School Program
Nova Southeastern University College of Pharmacy
- 2012-2021** PHRP 7014: *Molecular and Cellular Pharmacodynamics*
Department of Pharmaceutical Sciences
Nova Southeastern University College of Pharmacy
- PHRP 7220: *Advanced Pharmacogenomics and Molecular Medicine*
Department of Pharmaceutical Sciences
Nova Southeastern University College of Pharmacy
- 2019-2021** PHRE 5517: *Biologics and Beyond*
Department of Pharmaceutical Sciences
Nova Southeastern University College of Pharmacy
- 2019, 2021** PHRC 5833: *IDM3 Integrated Disease Management 3*
College of Pharmacy Professional School Program
Nova Southeastern University College of Pharmacy

- 2019, 2021** PHRP 5014/7014: *Molecular and Cellular Pharmacodynamics*
 Department of Pharmaceutical Sciences
 Nova Southeastern University College of Pharmacy
- 2020** PHRC 5935 IDM5 *Integrated Disease Management 5*
 Departments of Pharmaceutical Sciences and Pharmacy Practice
 Nova Southeastern University College of Pharmacy
- PHRC 4921 *Individualized Pharmacy*
 Department of Pharmaceutical Sciences
 Nova Southeastern University College of Pharmacy
- 2020-2021** PHRE 5431/7431 *Oncologic Treatments and Pharmacogenomics*
 Department of Pharmaceutical Sciences
 Nova Southeastern University College of Pharmacy
- PHRC 4931 IDM1 *Integrated Disease Management 1*
 Departments of Pharmaceutical Sciences and Pharmacy Practice
 Nova Southeastern University College of Pharmacy
- PHRC 4931: *Foundations of Pharmacy III*
 Departments of Pharmaceutical Sciences and Pharmacy Practice
 Nova Southeastern University College of Pharmacy

Doctoral Students

Jennifer M. Johnson (2006)

Biochemistry and Molecular Genetics Program, Interdisciplinary Biomedical Graduate Program,
 University of Pittsburgh Schools of the Health Sciences.

Thesis: Molecular Mechanism of Nucleotide Excision Repair Deficiency in Novel Breast Cancer Cell Lines

Homood As Sobeai (2017)

Department of Pharmaceutical Sciences, College of Pharmacy, Nova Southeastern University

Thesis: Molecular Regulation of Nucleotide Excision Repair in Breast Cancer and Acute Lymphoblastic Leukemia

Omar Ibrahim (2018)

Department of Pharmaceutical Sciences, College of Pharmacy, Nova Southeastern University

Thesis: Ancestral Dependence on Breast Stemness and Nucleotide Excision Repair in Breast Cancer Stem Cells Using Novel Human Model Systems

Manasi Pimpley (2018)

Department of Pharmaceutical Sciences, College of Pharmacy, Nova Southeastern University

Thesis: Analysis of Molecular Changes in 2 Types of Non-Tumor Adjacent Breast Identified by Nucleotide Excision Repair in Early Stage Breast Cancer

Abdullah Alhamed (2019)

Department of Pharmaceutical Sciences, College of Pharmacy, Nova Southeastern University

Thesis: Analysis of Genomic Instability and Invasiveness in Ductal Carcinoma In Situ

Jowaher Alanazi (2022)

Department of Pharmaceutical Sciences, College of Pharmacy, Nova Southeastern University

The Role of DNA (Nucleotide Excision) Repair in Breast Cancer Progression: A Strategy to Overcome Drug Resistance

Ali Almutairy (2023)

Department of Pharmaceutical Sciences, College of Pharmacy, Nova Southeastern University
Analysis of DNA Repair and Invasiveness in Early Stage Breast Cancer

Colton Simmons (2023)

Department of Pharmaceutical Sciences, College of Pharmacy, Nova Southeastern University

Yousef Alharbi

Department of Pharmaceutical Sciences, College of Pharmacy, Nova Southeastern University

Masters Students

Kelly A. Beaudry-Rodgers (1995)

Department of Human Genetics (Genetic Counseling), Graduate School of Public Health, University of Pittsburgh.

Thesis: Measurement of Nucleotide Excision Repair Capacity in Primary Breast Tumor and Adjacent Epithelium from Breast Cancer Patients

Linda D. Piersall (1996)

Department of Human Genetics (Genetic Counseling), Graduate School of Public Health, University of Pittsburgh.

Thesis: Nucleotide Excision Repair is an Intrinsic Factor in Breast Cancer and is Correlated with Tumor Progression

Timothy J. Furphy (2009)

Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh

Lucia Llorente-Ruiz (2018-2019)

Department of Marine & Environmental Sciences, Halmos College of Natural Sciences and Oceanography, Nova Southeastern University

Thesis: A Comparison of Five Pathways of DNA Repair Between Elasmobranchs and Humans

Siham Abou El Haoul (2019)

Department of Pharmaceutical Sciences, College of Pharmacy Master of Science Pharmaceutical Sciences, Nova Southeastern University

Yousef Alharbi (2021)

Department of Pharmaceutical Sciences, College of Pharmacy Master of Science Pharmaceutical Sciences, Nova Southeastern University

Student Dissertation Committees

Beatriz Zayas-Rivera (1994)

Ph.D., Department of Environmental and Occupational Health, University of Pittsburgh.

Thesis Advisor: Dr. Billy W. Day

Jeannette E. Gómez (1997)

Doctoral Candidate, Department of Environmental and Occupational Health, University of Pittsburgh.

Thesis Advisor: Dr. Donald R. Mattison

Michael Forlenza (1997)

M.S., Division of Behavioral Medicine, Department of Psychology, University of Pittsburgh.

Thesis Advisor: Dr. Andy Baum

Nina Joshi (1998)

Ph.D., Department of Environmental and Occupational Health, University of Pittsburgh.

Thesis Advisor: Dr. Stephen G. Grant

Mark Lanasa (1999)

M.D./Ph.D., Department of Molecular Genetics and Biochemistry, University of Pittsburgh.
Thesis Advisor: Dr. Eric Hoffman

Bobby Babra (1999)

M.S., Department of Environmental and Occupational Health, University of Pittsburgh.
Thesis Advisor: Dr. Stephen G. Grant

Mohammad Odetallah (2001)

M.S., Department of Pathology, West Virginia University.
Thesis Advisor: Dr. Sharon L. Wenger

Zhe Zeng (2003)

Ph.D., Department of Pharmaceutical Sciences, School of Pharmacy, University of Pittsburgh.
Thesis Advisor: Dr. Billy W. Day

Shalini Sethi (2003)

Ph.D., Division of Pharmaceutical Sciences, School of Pharmacy, Duquesne University.
Thesis Advisor: Dr. Paula A. Witt-Enderby

Miranda Sarachine (2006)

Doctoral Candidate, Department of Pharmaceutical Sciences, School of Pharmacy, University of Pittsburgh. Thesis Advisor: Dr. Billy W. Day

Abigale Lade (2006)

Ph.D., Cellular and Molecular Pathology Program, Interdisciplinary Biomedical Graduate Program, University of Pittsburgh. Thesis Advisor: Dr. William Saunders

Brian Nolen (2007)

Ph.D., Department of Human Genetics, Graduate School of Public Health, University of Pittsburgh.
Thesis Advisor: Dr. Anna Lokshin

Arlee Fafalio (2007)

Ph.D., Cellular and Molecular Pathology Program, Interdisciplinary Biomedical Graduate Program, University of Pittsburgh. Thesis Advisor: Dr. Beth Pflug

Laura Voegtly (2007)

Ph.D., Cellular and Molecular Pathology Program, Interdisciplinary Biomedical Graduate Program, University of Pittsburgh. Thesis Advisor: Dr. Tim Oury

Maria Jaramillo (2008)

Doctoral Candidate, Bioengineering Program, Interdisciplinary Biomedical Graduate Program, University of Pittsburgh. Thesis Advisor: Dr. Partha Roy

Yvonne Chao (2010)

Doctoral Candidate, Medical Scientist Training Program, Interdisciplinary Biomedical Graduate Program, University of Pittsburgh. Thesis Advisor: Dr. Alan Wells

M.D. Karim (2014)

Doctoral Candidate, Molecular Medicine and Pharmacogenomics (Drug Discovery) Graduate Program, College of Pharmacy, Nova Southeastern University. Thesis Advisor: Dr. Rais Ansari

Tahani Momenah (2021)

Doctoral Candidate, Molecular Medicine and Pharmacogenomics (Drug Discovery) Graduate Program, College of Pharmacy, Nova Southeastern University. Thesis Advisor: Dr. Rais Ansari

Clinical Residents and Fellows

- 1996** Lisa C. Flowers, M.D., Resident, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh
- 1997** Jason M. Dimsdale, M.D., Chief Resident, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh
- Tariq Nazir, M.D., Department of Medical Oncology, University of Pittsburgh
- 1998** Thomas P. Morrissey, M.D., Resident, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh
- 2001** Robert Pinter, M.D., Resident, Department of Obstetrics, Gynecology and Reproductive Health, University of Pittsburgh
- 2003** Uma Krishnamurti, M.D., Resident, Department of Pathology, University of Pittsburgh

Postdoctoral Fellows

- 1998** Beatriz Zayas-Rivera, Ph.D., Magee-Womens Research Institute
- 2008** Tiffany D. Miles, Ph.D., Center for Environmental Oncology, University of Pittsburgh Cancer Institute
- 2018-19** Omar Ibrahim, Ph.D. AutoNation Breast and Solid Tumor Cancer Institute, Nova Southeastern University (co-mentored with Dr. Stephen Grant)

Sabbatical Visitors

- 2002** Paula Witt Enderby, Ph.D. Associate Professor, Duquesne University, College of Pharmacy

Pharm. D. Students

- 2012** Vongai Majekwana, Nova Southeastern University
Yashira Pabon-Padin, Nova Southeastern University
- 2014** Wadell Gordon, Nova Southeastern University
- 2017** Stephen Brettler, Nova Southeastern University
- 2018-19** Jennifer Tejada, Nova Southeastern University
Mio Ezura, Nova Southeastern University
- 2020-21** Pegah Monesh, Nova Southeastern University
Carlos Colon, Nova Southeastern University

Medical Students

- 2013** Julian Zorrilla, Nova Southeastern University

Rotating Graduate Students

University of Pittsburgh

- 1999** Eddie Leman, Ph.D.
Matthew Wilson, Ph.D.

- 2000 Jennifer M. Johnson, M.D./Ph.D.
Lori Ehrlich, M.D./Ph.D.
- 2001 Lana Hanford, Ph.D.
- 2003 Jerrod Poe, Ph.D.
- 2004 Nicole Spardy, Ph.D.
- 2005 Sharawnda Smith, Ph.D.
- 2006 Abigale Lade, Ph.D.
- 2007 Kathryn Gonyea, Ph.D.

Nova Southeastern University

- 2011 Omar Ibrahim, Ph.D.
Homood As Sobeai, Ph.D.
- 2012 Jordan Spaw, Ph.D.
Manasi R. Pimpley, Ph.D.
- 2013 Shmuel Negussie, Ph.D.
Ahmed Alanzi, Ph.D.
- 2015 Abdulla Alhamed, Ph.D.
- 2017 Jowaher Alanzi, Ph.D.
- 2018 Sashana Dixon, Ph.D.
Ali Almutairy, Ph.D.
Ahmed Alsarrani, Ph.D.
Amal Alzahrani, Ph.D.
- 2019 Colton Simmons, Ph.D.
Samia Alsubhi, Ph.D.
- 2021 Yousef Alharbi

Undergraduate Student Interns

- 1991 Albert S. Chan, Stanford University
- 1995 Brian Stroup, University of Pittsburgh
- 1996 Trinity Chan, Chatham College
Elizabeth Robinson, Franciscan University
- 1997 Ayodola Anise, University of Pittsburgh
Bobby Babra, University of Pittsburgh, Johnstown Campus
Julie Baggs, Chatham College
Tracy Kitchen, Duquesne University
Lauren Piper, Kalamazoo University
Kim Saksun, Carlow College

- 1998 Ayodola Anise, University of Pittsburgh
Bobby Babra, University of Pittsburgh, Johnstown Campus
Falguni Patel, George Washington University
- 2000 Ayodola Anise, University of Pittsburgh
Julie Ann Conte, Westminster College (Honors Thesis)
- 2001 Amanda K. Blockinger, Chatham College
Taraya Miller, Chatham College
Gretchen Reinhart, Carnegie Mellon University
- 2005 Nancy Lalanne McBride, University of Pittsburgh
Amar Patel, New York University
- 2006 Rebecca Smith, University of Pittsburgh
Eulsoon Park, University of Pittsburgh
Nancy Lalanne, University of Pittsburgh (Honors Thesis)
- 2007 Nancy Lalanne, University of Pittsburgh (Honors Thesis)
- 2008 Trisha A. Pavel, University of Pittsburgh (Honors Thesis)
Christine Clark University of Pittsburgh
- 2009 Trisha A. Pavel, University of Pittsburgh (Honors Thesis)
Trista J. Polaski, University of Pittsburgh
- 2011-2015 Monica Azer, Nova Southeastern University (Honors Thesis)
- 2019 Julian Ramelow, Nova Southeastern University (Honors Thesis)
- 2021 Julia Reinhardt, University of Florida

High School Student Interns

- 1997-2002 Sera Thornton, Frick International School/ Taylor Allderdice High School, Pittsburgh, PA
- 2001 Austin S. Grant, Scarlet Heights High School, Toronto, Canada
- 2014 Ana Victoria Rottaro, Cypress Bay High School, Weston, FL
- 2018 Schaefer Grant, University School of Nova Southeastern University, Davie, FL (co-mentored with Dr. David Kerstetter)

Publications

Journal Articles

1. Baumann, H., **Latimer, J.J.**, and Glibetic, M.D. (1986). Mouse α_1 -protease inhibitor is not an acute phase reactant. *Archives of Biochemistry and Biophysics* **246**: 488–493.
2. **Latimer, J.J.**, Berger, F.G., and Baumann, H. (1987). Developmental expression, cellular localization, and testosterone regulation of α_1 -antitrypsin in *Mus caroli* kidney. *Journal of Biological Chemistry* **262**: 12641–12646.
3. Rheaume, C., **Latimer, J.J.**, Baumann, H., and Berger, F.G. (1988). Tissue- and species-specific regulation of murine α_1 -antitrypsin gene transcription. *Journal of Biological Chemistry* **263**: 15118–15121.

4. Baumann, H., Isseroff, H., **Latimer, J.J.**, and Jahreis, G.P. (1988). Phorbol ester modulates interleukin-6 and interleukin-1 regulated expression of acute phase plasma proteins in hepatoma cells. *Journal of Biological Chemistry* **263**: 17390–17396.
5. **Latimer, J.J.**, Berger, F.G., and Baumann, H. (1990). Highly conserved upstream regions of the alpha₁-antitrypsin gene in two mouse species govern liver-specific expression by different mechanisms. *Molecular and Cellular Biology* **10**: 760–769.
6. Rheume, C., Goodwin, R.L., **Latimer, J.J.**, Baumann, H., and Berger, F.G. (1994). Evolution of murine alpha₁-proteinase inhibitors: gene amplification and reactive center divergence. *Journal of Molecular Evolution* **38**: 121–131.
7. Burdsal, C.A., Pedersen, R.A., Hyun, W.C., and **Latimer, J.J.** (1995). Novel flow-cytometric method for separating cell types in differentiated F9 embryoid bodies. *Cytometry* **21**: 145–152. doi: 10.1002/cyto.990210206
8. **Latimer, J.J.**, Hultner, M.L., Cleaver, J.E. and Pedersen, R.A. (1996). Elevated DNA excision repair capacity in the extraembryonic mesoderm of the mid-gestation mouse embryo. *Experimental Cell Research* **228**: 19–28. doi: 10.1006/excr.1996.0294
9. Grant, S.G., Wenger, S.L., **Latimer, J.J.**, Thull D., and Burke, L.W. (2000). Analysis of genomic instability using multiple assays in a patient with Rothmund-Thomson syndrome. *Clinical Genetics* **58**: 209–215. doi: 10.1034/j.1399-0004.2000.580308.x
10. Forlenza, M., **Latimer, J.**, and Baum, A. (2000). The effects of stress on DNA repair capacity. *Psychology and Health* **15**: 881–891. doi: 10.1080/08870440008405589
11. Draper, D., Kush, M.J., Donohoe, W., Janosky, J., **Latimer, J.J.**, and Heine, R.P. (2001). Preterm premature rupture of membranes (pPROM) without labor is not associated with increased levels of matrix metalloproteinase-9 (MMP-9) protein. *Prenatal and Neonatal Medicine* **6**: 1–8.
12. **Latimer, J.J.**, Nazir, T., Flowers, L.C., Forlenza, M.J., Beaudry-Rodgers, Kelly, C.M., Conte, J.A., Shestak, K., Kanbour-Shakir, A., and Grant, S.G. (2003). Unique tissue-specific level of DNA nucleotide excision repair in primary human mammary epithelial cultures. *Experimental Cell Research* **291**: 111-121. doi: 10.1016/s0014-4827(03)00368-9
13. Kelly, C.M., and **Latimer, J.J.** (2005). Unscheduled DNA synthesis: a functional assay for global genomic nucleotide excision repair. *Methods in Molecular Biology* **291**: 303–320. doi: 10.1007/978-1-62703-739-6_36
14. Johnson, J.M., and **Latimer, J.J.** (2005). Analysis of DNA repair using transfection-based host cell reactivation. *Methods in Molecular Biology* **291**: 321–335. doi: 10.1385/1-59259-840-4:321
15. **Latimer, J.J.**, Rubinstein, W.S., Johnson, J.M., Kanbour-Shakir, A., Vogel, V.G., and Grant, S.G. (2005). Haploinsufficiency for *BRCA1* is associated with normal levels of DNA nucleotide excision repair in breast tissue and blood lymphocytes. *BMC Medical Genetics* **6**: 26 (published online 06-14-05). doi: 10.1186/1471-2350-6-26
16. Rubinstein, W.S., **Latimer, J.J.**, Sumkin, J.H., Huerbin, M.B., Grant, S.G., and Vogel, V.G. (2006). Prospective screening study of 0.5 Tesla dedicated magnetic resonance imaging for the detection of breast cancer in young, high risk women. *BMC Women's Health* **6**: 10 (published online 6-26-06). doi: 10.1186/1472-6874-6-10

17. Donovan, M., Miles, T.D., **Latimer, J.J.**, Grant, S., Talbott, E., Sasco, A.J., and Davis, D.L. (2006). Association between biomarkers of environmental exposure and increased risk of breast cancer. *Nature Reviews Cancer* **6**: c1 (reply: *Nature Reviews Cancer* **6**: c2). doi: 10.1038/nrc1755-c1
18. Grant, S.G., Das, R., Cerceo, C.M., Rubinstein, W.S., and **Latimer, J.J.** (2007). Elevated levels of somatic mutation in a manifesting *BRCA1* mutation carrier. *Pathology and Oncology Research* **13**: 276–283 (published online 12-25-07). doi: PAOR.2007.13.4.0276
19. **Latimer, J.J.**, Johnson, J.M., Miles, T.D., Dimsdale, J.M., Edwards, R.P., Kelley, J.L., and Grant, S.G. (2008). Cell-type-specific level of DNA nucleotide excision repair in primary human mammary and ovarian epithelial cell cultures. *Cell and Tissue Research* **333**: 461–467 (published online 6-25-08). doi: 10.1007/s00441-008-0645-1
20. Sajithlal, G.S., Rothermund, K., Zhang, F., Dabbs, D.J., **Latimer, J.J.**, Grant, S.G., and Prochownik, E.V. (2010). Permanently blocked stem cells derived from breast cancer cell lines. *Stem Cells* **28**: 1008–1018 (published online 4-7-10). doi: 10.1002/stem.424
21. **Latimer, J.J.**, Johnson, J.M., Kelly, C.M., Miles, T.D., Beaudry-Rodgers, K.A., Lalanne, N.A., Vogel, V.G., Kanbour-Shakir, A., Kelley, J.L., Johnson, R.J., and Grant, S.G. (2010). Nucleotide excision repair deficiency is intrinsic in sporadic stage I breast cancer. *Proceedings of the National Academy of Sciences (U.S.A.)* **50**: 21725–21730 (published online 11-30-10). doi: 10.1073/pnas.0914772107
22. Visus, C., Ito, D., Dhir, R., Szczepanski M.J., Chang, Y. J., **Latimer, J.J.**, Grant, S.G., and DeLeo, A.B. (2011). Identification of hydroxysteroid (17) dehydrogenase type 12 (HSD17B12) as a CD8⁺ T-cell-defined human tumor antigen of human carcinomas. *Cancer Immunology Immunotherapy* **60**: 919–929 (published online 3-16-11). doi: 10.1007/s00262-011-1001-y
23. Wend, P., Runke, S., Wend, K., Anchondo, B., Yesayan, M., Jordan, M., Hardie, N., Loddenkemper, C., Ulasov, I., Lesniak, M.S., Wolsky, R., Bentolila, L.A., Grant, S.G., Elashoof, D., Lehr, S., **Latimer, J.J.**, Bose, S., Sattar, H., Krum, S.A., and Miranda-Carboni, G.A. (2013). WNT10B/beta-catenin signaling induces HMGA2 and proliferation in metastatic triple-negative breast cancer. *EMBO Molecular Medicine* **5**: 1–16 (published online 1-11-13). doi: 10.1002/emmm.201201320
24. **Latimer, J.J.** and Kelly, C.M. (2014). Unscheduled DNA synthesis: the clinical and functional assay for global genomic nucleotide excision repair. *Methods in Molecular Biology* **1105**: 511–532. doi: 10.1007/978-1-62703-739-6_36
25. **Latimer, J.J.** (2014). Analysis of actively transcribed DNA repair using a transfection-based system. *Methods in Molecular Biology* **1105**: 533–550. doi: 10.1007/978-1-62703-739-6_37
26. **Latimer, J.J.**, Majekwana, V.J., Pabón-Padín, Y.R., Pimpley, M.R., and Grant, S.G. (2015). Regulation and dysregulation of mammalian nucleotide excision repair: a pathway to nongermline breast carcinogenesis. *Photochemistry and Photobiology* **91**: 493–500 (published online 11-13-14). doi:10.1111/php.123.
27. Ibrahim, O., As Sobeai, H., Grant, S.G. and **Latimer, J.J.** (2018). Nucleotide excision repair is a predictor of early relapse in pediatric acute lymphoblastic leukemia. *BMC Medical Genomics* **11**: 95 (published online 10-30-18). <https://doi.org/10.1186/s12920-018-0422-2>
28. Dodda, B., Corry, D., Bondi, C.D., Hasan, M., Clafshenkel, W.P., Gallagher, K.M., Kotlarczyk, M.P., Sethi, S., Buszko, E., **Latimer, J.J.**, Cline, J.M., Witt-Enderby, P.A. and Davis, V.L. (2019). Co-administering melatonin with an estradiol-progesterone menopausal hormone therapy represses mammary cancer development in a mouse model of HER2-positive breast cancer. *Frontiers in Oncology* **9**: 525 doi: 10.3389/fonc.2019.00525

29. **Latimer, J.J.**, Alhamed, A., Sveiven, S., Almutairy, A., Klimas, N.G., Abreu, M., Sullivan, K., and Grant, S.G. (2020). Preliminary evidence for a hormetic effect on DNA nucleotide excision repair in veterans with Gulf War Illness. *Military Medicine* **185**: e47–e52 (published online 7-23-19). PMID: PMC7353836
30. Alanazi, J.S., and **Latimer, J.J.** (2020). Host Cell Reactivation: Assay for actively transcribed DNA nucleotide excision repair using luciferase family expression vectors. *Methods in Molecular Biology* **2102**: 509–528. doi: 10.1007/978-1-0716-0223-2_28.
31. Pimpley, M.R., Foley, M.L., **Latimer, J.J.** (2020). New perspectives on Unscheduled DNA Synthesis: Functional assay for global genomic DNA nucleotide excision repair. *Methods in Molecular Biology* **2102**: 483–507. doi: 10.1007/978-1-0716-0223-2_27.
32. Grant, S.G., Ibrahim, O.M., Jin, X.-L., Klimas, N.G., Sullivan, K., and **Latimer, J.J.** (2021). Elevated somatic mutation and evidence of genomic instability in veterans with Gulf War illness. *Life Sciences* **281**: 119746, www.elsevier.com/locate/lifescie <https://doi.org/10.1016/j.lfs.2021.119746>.

Brief Reports

1. **Latimer, J.J.**, Berger, F., and Baumann, H. (1986). Developmental expression of alpha₁-protease inhibitor in *Mus caroli*. *Mouse News Letter* **74**: 113.

Books

1. Institute of Medicine (2001). **Mammography and Beyond: Developing Technologies for the Early Detection of Breast Cancer** (Nass, S.J., Henderson, I.C., and Lashoff, J.C., eds.), National Academy Press, Washington, D.C., doi.org/10.17226/10030, 288 pages.
2. California Breast Cancer Research Program (2010). **Pathways to Breast Cancer: A Case Study for Innovation in Chemical Safety Evaluation** (Schwarzman, M., and Jansses, S., eds.), University of California, Berkeley, 36 pages.

Book Chapters and Reviews

1. **Latimer, J.J.**, and Pedersen, R.A. (1993). Epigenetic interactions and gene expression in peri-implantation mouse embryo development. In: **Genes in Mammalian Reproduction**, (Gwatkin, R.B.L., ed.), Wiley-Liss, New York. *Modern Cell Biology* **12**: 131–171. Doi 10.13140/RG.2.2.1141.2567.
2. Grant, S.G., Melan, M.A., **Latimer, J.J.**, and Witt-Enderby, P.A. (2009). Melatonin and breast cancer: a review of clinical studies, cellular mechanisms and future perspectives. *Expert Reviews in Molecular Medicine* **11**: E5 (published online 2-5-09).
3. **Latimer, J.J.** (2012). Chapter 2: Genetics. Breast Cancer, In: **New Insights for the Healthcare Professional**, 2012 Edition, (Acton, A. ed.), Scholarly Editions, Atlanta, GA., p. 760.

Technical Reports

1. Pedersen, R.A., Burdsal, C.A., **Latimer, J.J.**, and Grant, S.G. (1992). Flow cytometric isolation of differentiated cell-types from embryoid bodies. In: **Program For Analytical Cytology Five Year Report: 1987-1992**, (Mayall, B.H., and Stull, S., eds.), Lawrence Livermore National Laboratory, Livermore, California, pp. 51–58.

Trade Journal Articles

1. Focht, D.C., and **Latimer, J.J.** (2001). Environmental control for live-cell microscopy. *Biomedical Products* **26**: 36–40.

2. Focht, D.C. and **Latimer, J.J.** (2001). Cellular micro-observation in pharmaceutical research. *Pharmaceutical Visions*, September, pp. 18
3. **Latimer, J.J.** and Newman, L. (2001). Developing the ideal breast cancer screening test. *The Scientist*, July 9, p. 1
4. Focht, D.C. and **Latimer, J.J.** (2003) Controlling the environment for time-lapse imaging. *Biophotonics International* **10**: 46–47.

Patents and Invention Disclosures

- 2000** U.S. Patent #**6074874** Epithelial cell cultures useful for *in vitro* testing (medium). (**Latimer, J.J.**)
- 2002** U.S. Patent #**6383805** Epithelial cell cultures useful for *in vitro* testing (protocol). (**Latimer, J.J.**)
- 2014** **Patent Application:** Analysis of allele loss and somatic mutation in complex, multifactorial diseases. (Grant, S.G. and **Latimer, J.J.**)
- 2016** U.S. Patent #**20,160,109,468** Associating somatic gene mutations in glycoporphin A with complex multifactorial diseases, (Grant, S.G. and Latimer, J.J.)
- 2019** Provisional Patent #**7752-V18-053** Regulation of Nucleotide Excision Repair (NER) by Microrna For Treatment of Breast Cancer (Latimer, J.J.)

Manuscripts

1. Johnson, J.M., As Sobeai, H., Ibrahim, O., Alhamed, A. Beaudry-Rodgers, K., Piersall, L.D., Grant, S.G., and **Latimer, J.J.** DNA nucleotide excision repair capacity correlates with sporadic breast cancer stage. *Cancer Research* (in preparation).
2. Ibrahim, O. and **Latimer, J.J.** Assessment of stem cell proportion and potency correlates with ancestral disparity in non-diseased breast explants, *Cancer Epidemiology, Biomarkers and Prevention* (in preparation).
3. Barbi de Mouri, M., Santana-Santos, L., Janjic, B., **Latimer, J.J.**, Benos, P.V., and Van Houten, B. Systems level approach identifies oxidative phosphorylation as an important factor in breast cancer subtypes. *Cancer and Metabolism* (in preparation).
4. **Latimer, J.J.**, Guiliano, K., Kelly, C.M., Johnson, J.M., Focht, D., Amortegui, A., Grant, S.G., Vogel, V.G., and Beer Stolz, D. A novel paradigm for human mammary tissue engineering using embryonic stem cell-based medium. *Tissue Engineering* (in preparation).
5. Grant, S.G., Furphy, T.J., Myers, N.T., Mock, L., and **Latimer, J.J.** Donor demographic, life history and biologic factors associated with ductal differentiation of primary human mammary epithelial cultures in vitro. *Journal of the National Medical Association* (in preparation).
6. Latimer, **J.J.**, Sarachine, M., Wenger, S.L., Courtney, A., Grant, S.G., and Day, B.W. Quantitative proteomics of nuclear matrix proteins in novel human ductal carcinoma *in situ* model systems. *Journal of Proteomics* (in preparation).
7. Grant, S.G., Lalanne, N.A., Furphy, T.J., and **Latimer, J.J.** Aspects of normal and transformed gene expression in the breast-derived cell line MCF10A. *Breast Cancer Research* (in preparation).

8. Grant, S.G., **Latimer, J.J.**, Kelley, J.L., Ellis, P.G., Vogel, V.G., and Draper, D.L. Longitudinal biomonitoring of treatment of a patient with inflammatory breast cancer with the *GPA* assay of bone marrow somatic mutation. *Therapeutics and Clinical Risk Management* (in preparation).
9. **Lalanne, N.A.**, Poe, J., Reinhart, G., Focht, D., and **Latimer, J.J.** Digital imaging analysis of cellular motility in novel primary cultures of early stage breast tumors reveals unique behaviors that correlate with tumor recurrence. *Cell Motility and the Cytoskeleton* (in preparation).
10. **Latimer, J.J.**, Kelly, C.M., Amortequi, A., and Grant, S.G. Analysis of DNA repair capacity in non-tumor adjacent tissue primary cultures identifies two different classes of sporadic breast cancer patient. *Clinical Cancer Research* (in preparation).

Selected Abstracts (of 119, 35 published)

1. Joshi, N., Grant, S., Kisin, E., Draper, D., and **Latimer, J.J.** (1999). Generation and characterization of primary endometrial explant cultures. Presented at the *Fourth Annual University of Pittsburgh Student Research Symposium*, Pittsburgh, Pennsylvania.
2. Nicolazzo, M.A., **Latimer, J.J.**, Kelly, C., and Draper, D.L. (2001). Endocervical and ectocervical primary cultures demonstrate unique cytokine secretion patterns. Presented at the annual meeting of the *International Infectious Disease Society for Obstetrics and Gynecology*, Chicago, Illinois. *Journal of Infectious Diseases in Obstetrics and Gynecology* **9**: 176.
3. Reinhart, G.A., Kelly, C.M., Patterson, J.A., Thornton, S.R., Focht, D., Kisin, E., Huerbin, M., Vogel, V.G., and **Latimer, J.J.** (2001) Quantitative analysis of live-cell behavior in breast tumor and normal human mammary epithelial cultures (HMEC). Presented at the annual meeting of the *American Society for Cell Biology*, Washington, D.C. *Molecular Biology of the Cell* **12(supplement)**: 241a.
4. Johnson, J.M., and **Latimer, J.J.** (2005). Molecular mechanism of nucleotide excision repair deficiency in novel breast tumor cell lines. Presented at *A Promise In Action—The Susan G. Komen Breast Cancer Foundation 2005 Mission Conference*, Washington, D.C.
5. **Latimer, J.J.**, Johnson, J.M., Kelly, C.M., Beaudry-Rodgers, K., Vogel, V.G., Kelley, J., Johnson, R., Amortegui, A., Mock, L. and Grant, S.G. (2005). Genetic analysis of DNA nucleotide excision repair deficiency in novel non-tumor adjacent and tumor cell lines suggests a new paradigm of breast cancer etiology. Presented at the 2005 *Department of Defense Research Program Era of Hope Meeting*, Philadelphia, Pennsylvania.
6. **Latimer, J.J.**, Bensen, A., Lagasse, E., Johnson, J.M., Kelley, J.L. III, Davis, D.L., and Stolz, D.B. (2005). Identification of stem cells in a novel human mammary epithelial culture tissue engineering system that reproducibly demonstrates ductal organotypic architecture. Presented at the 2006 meeting of the *American Association for Cancer Research*, Washington, D.C. *Proceedings of the American Association for Cancer Research* **47**: 320.
7. Grant, S.G., Myers, N.T., Kelley, J.L. III, Vogel, V.G., III, Brufsky, A.M., Bigbee, W.L., and **Latimer, J.J.** (2006). Longitudinal somatic mutational biomonitoring of genotoxic breast cancer chemotherapy reveals considerable interindividual variability in bone marrow response with potential clinical significance. Presented at the 2006 meeting of the *American Association for Cancer Research*, Washington, D.C. *Proceedings of the American Association for Cancer Research* **47**: 461.
8. Koty, P.K., Hollingsworth, C.K., Bensen, A., and **Latimer, J.J.** (2007). Treatment with a bi-specific antisense bcl-2/bcl-x oligonucleotide, but not tamoxifen, induces programmed cell death in a ductal carcinoma in situ cell line. Presented at the 2007 AACR Symposium on *Advances in Breast Cancer Research: Genetics, Biology and Clinical Applications*, San Diego, California.
9. Voegtly, L., Enghild, J., **Latimer, J.**, and Oury, T. (2008). Prostate specific antigen activation peptide (PSAap) is detectable in breast cell line media. Presented at the 2008 meeting of the *American Association for Cancer Research*, San Diego, California. *Proceedings of the American Association for Cancer Research* **49**: 5488.

10. Lalanne, N.A., Benson Courtney, A.L., Myers, N.T., Grant, S.G., and **Latimer, J.J.** (2008). The use of novel isogenic human ductal carcinoma in situ (DCIS) cell lines to identify markers of invasiveness. Presented at the 2008 *McGowan Institute for Regenerative Medicine Retreat*, Farmington, Pennsylvania.
11. **Latimer, J.J.**, Grant, S.G., Benson Courtney, A., Myers, N.T., and Miles, T.D. (2008). Use of a unique human breast tissue engineering model to determine the role of environmental xenobiotics in African American breast cancer etiology. Presented at the 2008 *Department of Defense Breast Cancer Research Program Era of Hope Meeting*, Baltimore, Maryland.
12. Day, B.W., Sarachine, M., and **Latimer, J.J.** (2008). Quantitative proteomics of nuclear matrix proteins in novel human ductal carcinoma in situ model systems. Presented at the 2008 *Department of Defense Breast Cancer Research Program Era of Hope Meeting*, Baltimore, Maryland.
13. Lalanne, N.A., **Latimer, J.J.**, and Grant, S.G. (2008). MCF10A: a breast cell line that is not as normal as we thought. Presented at *Discovery 2008*, at the Drexel University College of Medicine, Philadelphia, Pennsylvania.
14. **Latimer, J.J.**, Mock, L., Myers, N.T., Courtney, A.B., and Grant, S.G. (2009). Analysis of mammary stem cells from subjects of African vs. European white ancestry. Presented at the 2009 AACR Symposium on *The Science of Cancer Health Disparities*, Carefree, Arizona. *AACR Meeting Abstracts 2009*: B49.
15. Grant, S.G., Myers, N.T., Furphy, T., Lalanne, N.A., Courtney, A.L.B., Witt-Enderby, P.A., and **Latimer, J.J.** (2009). Disregulation of the melatonin receptor pathway in breast cancer. Presented at the 2009 *University of Pittsburgh Cancer Institute Scientific Retreat*, University of Pittsburgh, Greensburg, Pennsylvania.
16. Grant, S.G., Myers, N.T., Furphy, T., Lalanne, N.A., Courtney, A.L.B., and **Latimer, J.J.** (2009). Gene expression microarray analysis of commonly methylated biomarkers of breast cancer. Presented at the 2009 *University of Pittsburgh Cancer Institute Scientific Retreat*, University of Pittsburgh, Greensburg, Pennsylvania.
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