

CURRICULUM VITAE

I. GENERAL BIOGRAPHICAL INFORMATION

A. Personal

1. **Full Name:** Cheryl Lyn Walker

2. **Citizenship:** USA

3. Education:

a. Undergraduate Education:

B.A., Molecular, Cellular and Developmental Biology, University of Colorado, Boulder, Colorado (1973-1977)

b. Graduate Education:

Graduate Program, Department of Molecular Biology, University of Texas at Dallas, Dallas, Texas (1978-1979)

Ph.D., Department of Cell Biology, University of Texas Health Science Center, Southwestern Medical School, Dallas, Texas Thesis Advisor: Dr. Jerry Shay (1979-1984)

c. Postgraduate Training:

Staff Fellow, National Institute of Environmental Health Science, Research Triangle Park, NC, Drs. Paul Nettesheim and J. Carl Barrett, Laboratory of Pulmonary Pathobiology (1984-1988)

B. Academic Appointments

1. Current Faculty Positions:

Director, Center for Precision Environmental Health
Alkek Presidential Chair in Environmental Health
Professor, Departments of Molecular & Cell Biology, Medicine and Molecular and Human Genetics
Baylor College of Medicine
One Baylor Plaza BCM130
Houston TX, 77030
(713) 798-8219

2. Previous Faculty Positions

1988-1992 Scientist I, Department of Cellular and Molecular Toxicology, Chemical Industry Institute of Toxicology, Research Triangle Park, NC

1989-1992 Adjunct Assistant Professor, Department Pathology, UNC, Chapel Hill, NC

1990-1992 Adjunct Assistant Professor, Department of Toxicology, NCSU, Raleigh, NC

1992-1998 Associate Professor, Department of Carcinogenesis, Science Park - Research Division, University of Texas MD Anderson Cancer Center, Smithville, TX

1998-2002 Associate Director, Office of Gynecological Disease, National Institute of Environmental Health Sciences, Research Triangle Park, NC

1993-2011 Visiting Member, Department of Veterinary Physiology and Pharmacology, Texas A&M University, College Station, TX

1993-2011 Adjunct Professor, College of Pharmacy, University of Texas at Austin, Austin, TX

1996-2011 Director, Genetics and Epigenetics of Early Life Exposures Research Focus Area, NIEHS Center for Research on Environmental Disease, University of Texas MD

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Anderson Cancer Center, Smithville, TX

1998-2011 Professor, Department of Carcinogenesis, Science Park - Research Division, University of Texas MD Anderson Cancer Center, Smithville, TX

1999-2011 Member, Center for Molecular and Cellular Toxicology, UT, Austin, TX

2002-2011 Ruth and Walter Sterling Professor of Carcinogenesis, University of Texas MD Anderson Cancer Center, Smithville, TX

2011-2016 Robert A. Welch Professor and Director, Institute of Biosciences and Technology, Texas A&M Health Science Center, Houston, TX

Clinical Professor, Departments of Veterinary Physiology and Pharmacology and Veterinary Integrative Biosciences, College of Veterinary Medicine, Texas A&M University, College Station, TX

2011-2014 Visiting Professor, Departments of Systems Biology, University of Texas MD Anderson Cancer Center, Houston, TX

2011-2018 Visiting Professor, Departments of GU Medical Oncology, University of Texas MD Anderson Cancer Center, Houston, TX

3. Other

2018-present Director, NIEHS T32 Training Program in Precision Environmental Health Sciences (TPEHS)

2019-present Director, NIEHS P30 Gulf Coast Center for Precision Environmental Health

2019-present Co-Leader, Nuclear Receptor, Transcription, and Chromatin Biology (NRTCB) Program, Dan L. Duncan Comprehensive Cancer Center

D. Other Information

1. Honors and Awards

- 2006 The Dallas/Fort Worth Living Legend Faculty Achievement Award in Basic Research, UT MD Anderson Cancer Center
- 2007 Established Investigator Award, The LAM Foundation
- 2009-2010 Andrew Sowell-Wade Huggins Professorship and Graduate Fellowship in Cancer Research, UT Graduate School of Biomedical Sciences
- 2010 Cozzarelli Prize in Biological Sciences, National Academy of Sciences
- 2010 Fellow, Academy of Toxicological Sciences
- 2011 Fellow, American Association for the Advancement of Science
- 2015 Sigma Xi Outstanding Distinguished Scientist Award, Texas A&M University
- 2015 Eminent Toxicologist, Society of Toxicology
- 2015 2015 "Women on the Move", Texas Executive Women
- 2016 Leading Edge in Basic Science Award, Society of Toxicology
- 2016 University Distinguished Professor, Texas A&M University
- 2016 Elected, National Academy of Medicine, National Academies of Science, Engineering and Medicine
- 2017 50 Most Influential Houston Women, Houston Woman Magazine
- 2018 Distinguished Scientist Award, American College of Toxicology
- 2018 Benjamin Trump Award, Aspen Cancer Conference
- 2019 Roy O. Greep Award for Outstanding Research, Endocrine Society

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2019 Distinguished Toxicology Scholar Award, Society of Toxicology

2019 Fred W. Schueler Distinguished Lectureship in Pharmacy, Tulane University

2. Other Non-academic positions

2014-2016: Director, NIEHS Center for Translational Environmental Health Research, Houston, TX

2014-2016: Deputy Director, Texas OneGulf, State of Texas designated Congressional RESTORE Act Center of Excellence, Houston, TX

2014-2016: Texas A&M System Appointee, University Advisory Committee for the Cancer Prevention and Research Institute of Texas; elected Chair 2014-2016

II. RESEARCH INFORMATION

A. Research Support (current):

A New Target for Chromatin Remodeler Defects in Cancer

R35 CA231993-01 (PI: Walker) 08/01/2018-07/31/2025

NIH/NCI Annual direct: \$375,000 yr 1 \$600,000 yrs 2-5 Total Project Period: \$6,384,000

This Outstanding Investigator Award supports studies to identify how cancer-associated mutations in chromatin remodeler genes affect both their chromatin and cytoskeletal remodeling activities.

Training Program in Precision Environmental Health Sciences

T32 ES027801 (PI: Walker) 07/01/2018-06/30/2023

NIH/NIEHS Annual direct: \$221,938 Total direct project period: \$1,873,065

The goals of this training grant are to provide an outstanding opportunity to cross-train diverse biomedical scientists (pre- and post-doctoral) with the knowledge, skills, and experience needed to be effective precision environmental health researchers in GxExD fields who significantly impact human health.

Gulf Coast Center for Precision Environmental Health

P30ES030285-01 (PI: Walker) 04/01/2019 – 03/31/2024

NIH/NIEHS Annual direct: \$1,254,387 Total direct project period: \$6,247,455

The Houston-Galveston area is home to over a dozen Superfund sites and a hub for the petrochemical industry. It is also home to the Texas Medical Center, the largest medical center in the world. Thus, both the need and opportunity for the Gulf Coast Center for Precision Environmental Health (GC-CPEH) to be a focal point and catalyst for impactful EHS research, multi-directional communication with local communities, and the engine driving translation of precision environmental health research advances to improve human health, is exceptional.

Gene X Environment Interactions in the Pathogenesis of Uterine Fibroids

R01 ES028615-01 (PI: Al-Hendy, U of Illinois-Chicago, Co-PI: Walker)

09/01/2017-08/31/2022

NIH/NIEHS Annual Direct: \$405,971 Total Direct project period: \$2,029,855

Subaward annual direct: \$148,683 Total award annual direct: \$743,415

The goal of this application is to characterize epigenomic alterations induced in myometrial stem cells by early life EDC-exposures and understand the relevance of these changes to fibroid risk.

Methyltransferase Contributions to Genomic Stability and Cancer

CA203012-01A1 (PI: Rathmell, Vanderbilt, Co-PI: Walker) 12/01/2016-11/30/2020

NIH/NCI Annual direct: \$422,865 Total direct project period: \$2,114,325

Subaward annual direct: \$179,319 Total Subaward direct: \$896,595

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This project will compare a novel bifunctional activity of SETD2 to act as a methyltransferase for histones as well as microtubules involved in mitotic spindle formation. We propose to examine the relationship of SETD2 mono-allelic and bi-allelic deficiency to patterns of genomic instability and explore opportunities to target this deficiency as a therapeutic strategy for SETD2 mutant cancer.

**Epigenetic Signatures of Developmental Reprogramming in Target and Surrogate Tissues
U01 ES026719-01 (PI: Walker) 04/01/2016-03/31/2020**

NIH/NIEHS Annual direct: \$466,710 Total direct project period: \$1,866,840

The goal of this project is to generate reference epigenomic maps to identify epigenetic alterations induced in target and surrogate tissues by developmental reprogramming, determine how these epigenetic "signatures" change over the life course, and whether they are affected by differences in the genetic background of exposed individuals.

Incorporating the Microbiome into DR2 Activities to Inform Health Outcomes

R21 ES029493 (PI: Petrosino, Co-PI: Walker,) 03/01/2018-02/29/2020

NIH/NIEHS Annual direct: \$200,000 Total direct project period: \$275,000

The goal of this project is to obtain a better understanding of the role of the microbiome on post-disaster health outcomes, help in identifying microbiome-based biomarkers of environmental exposure(s) and/or their effects on health, and improve disaster research response (DR2) activities.

Maternal and Infant Environmental Health Riskscape (MIEHR) Research Center

P50 MD015496 (Co-I: Walker, PI: Symanski) 07/15/2020 – 6/30/2025

NIH/NIMHD Annual direct: \$947,400 Total direct project period: \$4,786,346

The goal of the MIEHR Research Center is to elucidate the contributions of exposures in the biological, physical, social and built environments of the environmental riskscape to environmental health disparities in pregnant women and their infants. The MIEHR Center will accomplish its goals in research, career development and community engagement with multidisciplinary and diverse teams of community and academic experts, interdisciplinary collaborations between synergistic research projects, activities that develop a diverse workforce and community engagement that fosters equitable community stakeholder interactions.

Research Support (completed):

Tumor Suppressor Localization and Function at the Peroxisome

NIH/NCI R01CA143811-06
(PI: Walker) 01/25/2010-06/30/2019 (\$1,125,000 total costs)

Therapeutic Targeting of Skp2/Ck1 to Restore Nuclear p27

CPRIT DP150086
(PI: Walker) 12/01/2014–11/30/2018 (\$1,842,816 total costs)

Epigenetic Programmers Targeted During Developmental Reprogramming

NIH/NIEHS R01 ES023206-03
(PI: Walker) 01/2013-05/31/2018 (\$1,883,444 total costs)

Center for Translational Environmental Health Research

NIH/NIEHS 1P30ES02351-02
(PI: Walker) 06/05/2014-03/31/2018 (\$4,500,000 total costs)

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Minority Training Supplement to ES023206

NIH/NIEH 3 OR01 ES023206-03S1
(PI: Walker) 06/01/2015-05/31/2017 (\$124,752 total costs)

Gynecologic Cancer SPORE for Uterine Cancers

NIH P50 CA098258-10 (PI: Lu)
(Walker Co-PI Project 1) 09/01/2003-08/31/2015 (\$14,803,000 total direct)

Targeting Cellular Energetics Pathways in Endometrial Cancer

CPRIT RP120855
(PI: Walker) 06/01/2012-05/31/2015 (\$1,843,000 total costs)
CPRIT

Developmental Reprogramming of Prostate Carcinogenesis by BPA

NIH RC2 ES018789 (ARRA Grand Opportunity)
(PI: Walker) 09/30/2009-09/29/2013 (\$1,829,894 total costs)

Reversing the Effects of Developmental Reprogramming

NIH R21 ES020055
(PI: Walker) 06/09/2010-05/31/2013 (\$468,250 total costs)

Research Training in Carcinogenesis & Mutagenesis

NIH T32 CA009480-22
(PI: Richie, Walker Faculty Mentor) 09/01/84-05/31/13 (no direct support, cost shared effort)

Environmental Estrogens and Uterine Leiomyoma

NIH 5 R01 ES008263-12
(PI: Walker) 08/01/96-03/31/13 (\$4,402,000 total costs)

PPTOXII: Environmental Stressors in the Developmental Origins of Disease

NIH R13 HD072606
(PI: Walker) 05/14/2012-3/13/2013 (\$6,000 total costs)

TSC2 and Cystogenesis

DOD TS093080
(P.I. Walker) 09/01/2010-08/31/2012 (\$100,000 total direct)

Center for Research on Environmental Disease

NIH P30 ES007784-13
(Research Focus Area PI: Walker) 04/01/96-03/31/12 (no direct support, cost shared effort)

Autophagy and Ovarian Cancer Program Project Development Grant

Ovarian Cancer Research Fund, Inc (PI: Bast) (Project 3 PI: Walker)
12/31/2008-12/30/2011 (\$225,000 total direct costs)

Training Supplement to ES008263

NIH 3R01ES008263-11S1
(PI: Walker) 09/01/09-08/31/2011 (\$224,542 total direct)

Regulation of Transcriptional Coactivators by Environmental Estrogens

NIH R21 ES015188-02
(P.I. Bedford, Walker Co-I) 09/26/2006-08/31/2010 (\$218,475 total costs)

Cytoplasmic sequestration of p27: Implications for ER signaling in LAM

LAM Foundation

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(PI: Walker) 07/01/2007-06/30/2010 (\$120,000 total direct costs)

Genetic Determinants of Rat Renal Carcinogenesis

NIH R01 CA063613-12
(PI: Walker) 06/03/94-03/31/10 (\$867,500 total direct costs)

Determination of Efficacy and Target Engagement in the Eker Rat Model of Uterine Leiomyoma

American Medical Systems LS2008-00022928LG
(PI: Walker) 01/03/2008-01/31/2010 (\$209,286 contract sponsored research)

c-src Regulation of a Functional PKD1/TSC2 Interaction

TSC Alliance/PKD Foundation collaborative grant
(PI: Walker) 10/15/2007-9/30/2009 (\$150,000 total direct costs)

Efficacy of CCI 779 for Uterine Leiomyoma

Wyeth-Ayerst Research Laboratories LS2007-00019040SS
(PI: Walker) 2/22/2007-1/31/2009 (\$75,000 contract sponsored research)

Preclinical efficacy studies in the Eker rat model

GlaxoSmithKline LS2005-00013490
(PI: Walker) 01/01/2008-12/31/2008 (\$60,000 contract sponsored research)

Uterine Leiomyoma: Molecular Etiology

NIH R01 HD046282-04
(PI: Walker) 09/24/03-07/31/08 (\$1,250,000 total direct costs)

Evaluation of Novel Downstream Targets of PI3K/AKT Signaling as Biomarkers of Efficacy for PI3K/AKT Inhibitors

Eli Lilly, Lilly Clinical Partners
(PI: C. Walker) 06/01/04-05/31/05 (\$75,000 contract sponsored research)

Mechanisms of Toxicity Gordon Conference

NIH R13 ES009751
(PI: Walker) 07/24/1998-07/23/1999 (\$8,400 total costs)

Preclinical Therapeutic Studies in a Rat Leiomyoma Model

NIH R01 CA072253v
(PI: Walker) 05/01/1996-04/30/1999 (\$550,185 total costs)

Wilm's Tumor Suppressor Gene in Mesothelioma

NIH R01 ES006658
(PI: Walker) 02/09/1994-01/31/1998 (\$833,900 total costs)

International Conference on Carcinogenesis Risk Assessment

NIH R13 CA065923
(PI: Walker) 09/30/1994-09/29/1995 (\$8,000 total costs)

Model for Screening Antihormonal Therapies

NIH R41 HD033605 09/30/1994-09/29/1995
(STTR with Ligand, Academic PI: Walker) (\$99,494 total costs)

B. National Scientific Participation

1. Journal Editorial and Review Boards:

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1994-1996 Associate Editor, Carcinogenesis
1997-2008 Editorial Review Board, Environmental Health Perspectives, (Senior Editor Toxicogenomics 2003-2005)
1998-2005 Editorial Board, Toxicological Sciences
1992-present Associate Editor, Molecular Carcinogenesis
1995-2009 Associate Editor, Cancer Research
2009-present Editorial Board, Cancer Research
2002-2012 Senior Editor, Molecular Cancer Research
2008-2017 Member, Editorial Board, Cancer Prevention Research (CaPR)
2012-2016 Editorial Board, Cancer Hallmarks
2013-2017 Deputy Editor, Molecular Cancer Research
2020-current Associate Editor, Developmental Physiology

2. Review Panels

1989-1990 Member, Small Business Innovation Research Concept Review Panel, Division of Extramural Research and Training National Institutes of Environmental Health Science
1990 Ad Hoc Member, Biological Models and Materials Resources Program Study Section, National Institutes of Health
1991-1992 Chair, Scientific Review Panels, Division of Extramural Research and Training, National Institute of Environmental Health Science
1992 Ad Hoc Member, Carcinogenesis and Nutrition Study Section, American Cancer Society
1993, 1998 Ad Hoc Member, Pathology B Study Section, National Institute of Health
1994-1998 Member, Carcinogenesis and Nutrition Study Section, American Cancer Society
1995-1997 Member, Molecular Genetics - 2 Study Section, US Army, Breast Cancer Research Program, Department of Defense (DOD)
1995-1998 Member, External Review Panel, Center for Bioenvironmental Research, Tulane University
1998, 1999 Chair, Molecular Genetics - 2 Study Section, US Army Breast Cancer Research Program, Department of Defense
1999 Member, National Cancer Institute (NCI) Study Section, Mouse Models of Human Disease Consortium
1999 Chair, NIH Special Emphasis Review Panel, NCI
1999 Reviewer, Dutch Cancer Society
2001 Member, University of California Tobacco-Related Disease Research Program Study Section
2001 Member, Oncological Sciences Study Section, Boundary Setting Team, NIH
2003 Member, Tuberos Sclerosis and Neurofibromatosis Study Section, DOD
2003 Member, Fetal Basis of Disease Special Emphasis Panel, National Institute of Environmental Health Sciences (NIEHS), NIH
2004 Member, Fetal Basis of Disease Study Section, NIEHS, NIH
2005 Ad Hoc Member, Clinical and Integrative Endocrinology and Reproduction Study Section, NIH
2006 Member, California Tobacco-Related Disease Research Program (Cancer) Study Section
2006 Member, NIEHS Special Emphasis Panel (ONES award) ZES1 JAB-C, NIH
2006 Member, Special Emphasis Panel Interdisciplinary Partnerships in Environmental Health Sciences, ZRG1 DIG-C, National Institutes of Health
2006 Chair, Site Visit Team, Laboratory of Carcinogenesis, NCI
2006 Ad Hoc Reviewer, Lung Injury, Repair, and Remodeling Study Section, Respiratory Sciences IRG, NIH
2006 Chair, Molecular Biology and Genetics-2, Breast Cancer Research Program, DOD
2006 Chair, Scientific Review Panel, Kidney Disease, Peer Review Medical Research

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Program (PRMRP), DOD
2006 Reviewer, Tenovus Cancer Charity, Great Britain
2007 Member, Molecular Biology and Genetics – 2, Breast Cancer Research Program, DOD
2007 Member, Scientific Review Committee, LAM Foundation
2008 Reviewer, California Tobacco-Related Disease Research Program, University of California, San Francisco
2008 Member, Tuberous Sclerosis Alliance Grant Review Committee
2008 Member, AACR Centennial Grant Review Committee
2008-2009 Founding member, Systemic Injury from Environmental Exposures Study Section, Center for Scientific Review (CSR), NIH
2009 Member, Cancer Study Section, Tobacco-Related Disease Research Program, University of California
2009 DOD PRMRP Chair, Polycystic Kidney Disease Study Section
2009-2010 Scientific Reviewer, LAM Foundation
2009-2010 Scientific Reviewer, Tuberous Sclerosis Alliance
2010-2011 Ad-hoc Member, Cancer Genetics Study Section, CSR, NIH
2010 Member, Promise Grant Review and Investigator-initiated Research in Basic Biology and Epigenetics Panels, Susan G. Komen Foundation
2010 Ad Hoc Member, XNDA Study Section, CSR, NIH
2011 Chair, Tuberous Sclerosis Study Section, Congressionally Directed Medical Research Program
2011 Reviewer, Idea Awards, Susan G. Komen Foundation
2012 Chair, Congressionally Directed Medical Research Program (CDMRP), “Kidney, Cancer and Mesothelioma” Panel
2013-2016 Chair, Systemic Injury by Environmental Exposure (SIEE) Study Section, CSR, NIH
2015-2018 Member, Integration Panel, Tuberous Sclerosis Complex Disease Program, Department of Defense
2017 Member, National Institute of Child Health and Human Development Integrative Research in Gynecologic Health
2017 Member, NIEHS Special Emphasis Panel (ONES award)
2017 Chair, NIEHS Special Emphasis Panel, ZES1 LWJ-K (R), RIVERS Award, National Institute of Environmental Health Sciences
2019 Ad hoc reviewer, NIH Systemic Injury from Environmental Exposure (SIEE) Review Panel
2021 Member, NIEHS Review Panel for Virtual Consortium for Translational/Transdisciplinary Environmental Research
2021 Chair, NCI Review Panel for the International Agency for Research on Cancer (IARC) Monographs Program
2021 Member, NCI Outstanding Investigator Award Program Review Panel
2016-present Reviewer, LAM Foundation Scientific Review Committee, LAM Research Grants Study Section
2017-present Member, Kidney Cancer Research Programmatic Review Panel, Congressionally Directed Medical Research Program (CDMRP), DOD

3. Professional Society Activities with Offices Held

American Association for Cancer Research (AACR)

1992 Appointed to Carcinogenesis Task Force
1992 Appointed to Annual Meeting Committee
1992 Appointed to State Legislative Action Committee (NC)
1993 Elected President, Women in Cancer Research
1994-1995 Appointed to Annual Meeting Committee
1994-2002 Appointed to Membership Development Committee and State Legislative

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Action Committee (TX)
1996-2000 Appointed to Exhibits Committee
1997-1999 Elected to Nominating Committee
2000-2001 Appointed to Annual Meeting Committee
2001-2002 Appointed Chair, Career Development Award Committee
2003-2004 Appointed to Carcinogenesis Subcommittee, AACR Annual Meeting Program Committee
2004-2005 Appointed to AACR Organizing Committee, Scientist-Survivor Program
2004-2005 Appointed Chair to Annual Meeting Committee and Chair to Animal Models Section, Tumor Biology Subcommittee
2003-2006 Appointed to AACR Laboratory Research Awards Selection Committee
2005-2006 Appointed to Annual Meeting Committee, Carcinogenesis Subcommittee
2006 Member, AACR Centennial Advisory Committee, Milestones Project
2006 Appointed to Annual Meeting Committee, Carcinogenesis Subsection
2007 Appointed Co-Chair, Annual Meeting Committee, Carcinogenesis Subsection
2008 Appointed to Bridgit Leventhal Scholar Award Committee
2008 Member, Centennial Grant Committee
2010 Appointed to Annual Meeting Program Committee
2012-2014 Chair, Gertrude Elion Cancer Research Award Committee
2015 Member, AACR Basic Cancer Research Fellowships Scientific Review Committee
Member, Annual Meeting Committee
Chair, Carcinogenesis Section

The Endocrine Society

2002-present Member

AAAS

1990-Present Member

Society of Toxicology

1990-present Member, Molecular Biology and Carcinogenesis Specialty Sections
1991-1994 Appointed to Public Communications Committee
1992-1994 Elected Secretary/Treasurer Molecular Biology Specialty Section
1995 Elected Vice President, Molecular Biology Specialty Section
1996-1997 Elected President, Molecular Biology Specialty Section
1996-1999 Elected to Membership Committee, Chair 1998-99
1999-2000 Elected to Nominating Committee
2001-2003 Elected to Board of Directors
2005 Appointed to Scientific Liaison Committee
2006-2007 Appointed Chair, SOT Strategic Planning Committee for Science
2007-2008 Elected to the Presidential Chain as Vice President-elect
2007-2008 Co-Chair, Program Committee, 2008 Annual Meeting
2008-2009 Vice President and Chair, Scientific Program Committee
2009-2010 President
2010-2011 Past-President
2012-2013 Member, Recognition Task Force
2015 Recognized as Eminent Toxicologist
2016 Recipient of the "Leading Edge in Basic Research" Award
North Carolina Chapter, Society of Toxicology
2019 Distinguished Toxicology Scholar Award, Society of Toxicology
1991-1992 Elected to the Office of Councilor
Lone Star Chapter (formerly Gulf Coast Chapter), Society of Toxicology
1993-present Member

American Society for Cell Biology

1992-1998 Member

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Academy of Medicine Engineering and Science of Texas (TAMEST)

Appointed to Board of Directors

National Academy of Medicine

2016-present Member

4. Invited presentations: National and International

- 1990** NATO Advanced Workshop: "Mechanisms in Fiber Carcinogenesis." Invited presentation: "Growth Factor and Receptor Expression in Transformed Rat Mesothelial Cells" (Albuquerque, NM)
National Heart, Lung, and Blood Institute Workshop: "Pleural Cell Biology in Health and Disease." Invited presentation: "Oncogene Expression by Mesothelial Cells" (Bethesda, MD)
Banbury Conference: "Molecular Mechanisms of Fiber Cytotoxicity and Carcinogenesis." Invited presentation: "Growth Factor Gene Expression in Rat Mesothelioma" (Cold Spring Harbor, NY)
Genotoxicity and Environmental Mutagen Society Symposium "The Control of DNA Synthesis and Cell Proliferation." Invited presentation: "The Biology of Oncogenes and Tumor Suppressor Genes" (Greensboro, NC)
- 1991** 5th International Conference on Carcinogenesis and Risk Assessment. Invited presentation: "Cytogenetic and Molecular Correlates between human and Rodent Renal Cell Carcinoma" (Austin, TX)
International Workshop: "Approaches to Evaluating the Toxicity and Carcinogenicity of Man-Made Fibers." Invited participant (Durham, NC)
Miami Winter Symposium: "The Molecular Biology of Human Genetic Disease - Animal Models." Invited presentation: "The Eker Rat: A Model for Hereditary Renal Cell Carcinoma" (Miami, FL)
Genetic Toxicology Association, Invited presentation: "Tumor Suppressor Genes" (Princeton, NJ)
International Conference on Mesothelial Cell and Mesothelioma: "Past, Present and Future." Invited presentation: "Comparative Molecular Biology of Mesothelioma in Rats and Man" (Paris, France)
International Conference on Molecular Mechanisms of Carcinogenesis in Humans and Rodents. Invited presentation: "The Eker Rat: A Model for Studying Mechanisms of Cancer Susceptibility and Tumor Development" (Research Triangle Park, NC)
- 1992** AACR Symposium: "Molecular Mechanisms in Carcinogenesis." Invited presentation: "Genetic Alterations in Renal Carcinogenesis" (1992 Annual Meeting, San Diego, CA)
- 1993** Aspen Cancer Conference: "Molecular Mechanisms of Toxicity in Relation to the Genetics of Animal and Human Neoplasia." Invited presentation: "Kidney and Mesothelium - Interspecies Comparisons" (Aspen, CO)
- 1994** Third International Symposium on Biology of Renal Cell Carcinoma. Invited presentation: "Hereditary RCC in the Eker Rat: A Multistage Model for Identifying Molecular Alterations during Tumor Development" (Cleveland, OH)
SOT Symposium: "Contemporary Issues in Fiber Toxicology." Invited presentation: "Molecular Approaches to Understanding Mechanisms of Mesothelioma Development" (Dallas, TX)
Fifth Heidelberg Conference: "Targets for Cancer Research: Prevention, Differentiation, Selective Therapy." Invited presentation: "Genetic Alterations in Multistage Hereditary Rat Renal Cell Carcinoma" (Honolulu, HI)

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- Gordon Research Conference: "Mutagenesis." Invited presentation: "Genetic Determinants of Susceptibility to Chemical Carcinogenesis" (Plymouth, NH)
Madison Minisymposium, Invited presentation: "Molecular Alterations During Multistage Tumor Development in the Eker Rat" (Madison, WI)
6th International Congress: "Nephrotoxicity and Nephrocarcinogenicity." Invited presentation: "Genetic Alterations in Renal Carcinogenesis" (Leiden, Netherlands).
- 1995** 3rd Annual Genitourinary Oncology Conference. Invited presentation: "Advances in the Biology and Therapy of Renal Cell Carcinoma" (Houston, Texas)
SOT Symposium, Organizer and Chair, Invited presentation: "Interspecies Toxicology: Molecular Basis of Differential Response" (1995 Annual Meeting, Baltimore, MD)
AACR Meet the Expert Sunrise Session. Invited presentation: "Organ-Specific Carcinogenesis" (Toronto, Canada)
Ninth International Conference on Carcinogenesis and Risk Assessment: "Etiology of Breast and Gynecological Cancers." Invited presentation: "Experimental Model for Study of Uterine Leiomyoma" (Austin, TX)
- 1996** Sixth International Conference Anti-Cancer Treatment, Invited Presentations: "Anti-steroidal Hormones as Therapeutic Agents for Uterine Leiomyoma" and "Translational Research: The Use of Animal Models for Identifying Anti-Cancer Treatments" (Paris, France)
Annual Meeting American College of Veterinary Pathologists: "Plenary Session." Invited presentation: "Comparative Molecular Carcinogenesis" (Seattle, WA)
Registry of Comparative Pathology, Invited presentation: "Oncogenes and Other Molecular Aspects of Cancer: A Comparative Approach" (St. Louis, MO)
- 1997** Invited speaker, NIEHS Conference on Estrogens and the Environment (Washington, DC)
Gordon Conference: "Hormonal Carcinogenesis." Invited presentation: "Estrogens and Antiestrogens in the Cause and Therapy of Uterine Leiomyoma" (Tilton School, Tilton, NH)
Society of Toxicologic Pathologists 16th International Symposium: "Toxicologic Pathology of the Kidney and Urinary Bladder." Invited presentation: "Genetic of Renal Carcinogenesis" (Beaver Creek, CO)
National Cancer Institute US-Japan Workshop: "Genetic and Environmental Interactions in Cancer Susceptibility" Invited presentation: "Modulation of Cancer Susceptibility in the Eker Rat: Lessons for Therapeutics and Carcinogenesis" (Bethesda, MD)
American Society of Nephrology State-of-the Art Keynote Lecture: "Carcinogenesis and the Kidney" (San Antonio, TX)
- 1998** Southwestern Association of Toxicologists, Invited presentation: "Techniques and Applications of Molecular Biology to Toxicology" (Ft. Worth, TX)
Princess Lilian Foundation Symposium: "Kidney Development has Clinical Impact." Invited presentation: "Mechanisms of Development of Renal Malignancies" (Brussels, Belgium)
Reproductive Tract Gordon Research Conference, Invited presentation: "Environmental Xenobiotic Effects on Uterine Dysfunction and Fibroids" (Plymouth, NH)
Invited speaker, Third International Symposium on Hormonal Carcinogenesis, (Seattle, WA)
- 1999** Keystone Symposium on Endocrine Disruptors, Invited presentation: "Uterine Leiomyoma: Impact of Endocrine Disruptors" (Lake Tahoe, CA)
Cold Spring Harbor Conference: "Physiological Genomics and Rat Models." Invited presentation: "Cancer Susceptibility in the Eker Rat Model" (Cold Spring Harbor, NY)
Laser Capture of Microdissection and Macromolecular Analysis of Normal Development and Pathology: Advances in Laser Capture Microdissection, Invited presentation:

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- “Combined LCM and HPLC-based DNA Fragment Analysis in Preneoplastic Lesions”
(Bethesda, MD)
NIH Workshop: “Phytoestrogens and Healthy Aging.” Invited presentation: “Differential Responsiveness of the Uterus to Estrogens with Age” (Phoenix, AR)
Invited Participant, NIEHS Surrogate Biomarkers for Drug Safety and Chemical Risk Assessment Workshop (Bethesda, MD)
Cold Spring Harbor Winter Biotechnology Conference, Invited presentation: “Physiological Genomics and Rat Models” (Cold Springs Harbor, NY)
- 2000** Invited Speaker and Session Chair, Mechanisms of Toxicity Gordon Conference (Plymouth NH)
Invited Speaker, DNA 2000: International Symposium on Genetic Analysis (Boston, MA)
Invited Speaker, Molecular Genetics, Metabolism and Cell Signaling in Renal Carcinogenesis, Society of Toxicology Continuing Education Course (Philadelphia, PA)
Invited Speaker, US Japan Conference on Carcinogenesis and Mutagenesis (Kauai, Hawaii)
Invited Participant, Aspen Cancer Conference (Aspen, CO)
Society of Toxicologic Pathologists, Invited presentation: “Impact of Hormones and Environmental Estrogens on Development of Uterine Leiomyoma” (Phoenix, AR)
Steroid Receptors and Cell Signaling Symposium, Invited presentation: “Mechanisms of Aberrant Steroid Hormone Response in Uterine Leiomyoma” (Cincinnati, OH)
- 2001** AACR, Meet the Experts Sunrise Session, Invited presentation: “Molecular Carcinogenesis” (New Orleans, LA)
Invited Speaker, Hormonal Carcinogenesis Gordon Conference (Meriden, NH)
- 2002** Session Chair, Aspen Cancer Conference (Aspen, CO) “Stress Response Pathways”
American Chemical Society annual meeting: “Genomic Approaches to Toxicology.” Invited presentation: “Identification of Critical Determinants of Agonism and Antagonism in the Breast by Transcriptional Profiling” (Boston, MA)
Summer Research Conference American Urological Association: “New Directions in Renal Cell Carcinoma.” Invited presentation: “Cell Signaling in RCC” (Houston, TX)
National Tuberous Sclerosis Alliance: “New Perspectives in Tuberous Sclerosis Complex Research.” Invited presentation: “Renal Disease in TSC: Lessons from the Eker Rat” (Chantilly, VA)
1st Annual Uterine Cancer Biology Symposium: “Basic Biology and Translational Opportunities in Prevention and Treatment.” Invited presentation: “Mechanisms of Action of SERMs in Hormonally Receptive Tissues” (Houston, TX)
- 2003** Center for Research on Environmental Disease Symposium: “Experimental Models of Human Disease.” Invited presentation: “The Road Less Traveled: Finding Points of Convergence Between the Etiology of Human and Animal Tumors” (Austin, TX)
Lymphangioliomyomatosis Foundation: “LAMposium. Invited presentation: “Role of Tuberin in PI3K Signaling in Uterine Leiomyoma and LAM” (Cincinnati, OH)
- 2004** The LAM Foundation International Research Conference, Invited presentation: “Steroid Hormone- induced Smooth Muscle Proliferation and Tuberin Defects in LAM: Is there a connection?” (Cincinnati, OH)
International Kidney and Genetics Conference, Invited presentation: “Functional Interaction Between the TSC2 and PKD1 Gene Products Tuberin and Polycystin” (Paris, France)
Session Chair, NIH/NCI Gynecologic Cancer Models Symposium (San Juan, Puerto Rico)
TSC International Conference, Invited presentation: “Membrane Partitioning by AKT Phosphorylation and 14.3.3 Sequestration Regulates Subcellular Localization and Function of Tuberin” (Cambridge, UK)

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- Renal Toxicology and Toxicological Pathology International Symposium: "Integration of Mechanistic Investigation and Morphological Evaluation." Keynote address: "Genetics Targets for Renal Carcinogenesis" (Lindau, Germany)
- 2005** NIH Conference: "Advances in Uterine Leiomyoma Research." Invited presentation: "Developmental Programming: How Early Life Exposures Influence the Occurrence of Leiomyoma in Adults" (Bethesda, MD)
Lymphangioliomyomatosis Foundation and Tuberous Sclerosis Complex International Research Symposium, Invited presentation: "Membrane Partitioning by AKT Phosphorylation Determines Tuberin Activity" (Cincinnati, OH)
American Society for Clinical Oncology, Educational Session, Invited presentation: "Cell Signaling Defects in Renal Cell Carcinoma" (Orlando, FL)
Member, Scientific Faculty AACR Scientist Survivor Workshop, "Gene-Environment Interactions" (Bethesda, MD)
4th International Kidney Cancer Symposium, Invited presentation: "Cell Signaling Defects in Kidney Cancer" (Chicago, IL)
Gulf Coast Society of Toxicology Annual Meeting, Invited presentation: "Developmental Programming: Understanding How Early Life Environmental Exposures Determine Cancer Incidence in Adults" (Austin, TX)
FASEB Summer Research Conference on Polycystic Kidney Disease, Invited presentation: "The Nexus of Tuberous Sclerosis and PKD Pathogenesis (Saxtons River, VT)
Aspen Cancer Conference, Invited presentation: "Developmental Programming of Tumor Suppressor Gene Penetrance" (Aspen, CO)
- 2006** LAM Foundation, International Research Conference, Invited presentation: "p27 defects in Tsc2-null cells and LAM" (Cincinnati, OH)
International Life Sciences Institute Annual Meeting, Invited presentation: "How Can We Use Toxicogenomics to Understand the Impact of Early Life Exposures on Adult Disease?" (San Juan, Puerto Rico)
Gordon Conference: "Mammalian Gametogenesis and Embryogenesis." Invited presentation: "Developmental Programming of Tumor Suppressor Gene Penetrance by Environmental Estrogens" (New London, CT)
- 2007** Invited participant and Round Table Discussion Leader, WICR Leadership Forum, AACR Annual Meeting (Los Angeles, CA)
Keystone Conference: "PI3 Kinase Signaling Pathways in Disease" Invited presentation: "Activation of AMPK Signaling in TSC2-deficient Cells Regulates p27 Localization and Function (Santa Fe, NM)
Society of Gynecologic Oncology Annual Meeting, Invited presentation: "Gene-Environment Interactions: Developmental Programming by Environmental Estrogens Determines Fibroid Risk" (Reno, NV)
Society of Toxicology Annual Meeting Symposium: "Hormones, the Environment and Cancer" Invited presentation: "Understanding Linkages between Environmental Toxicity and Human Disease" (Charlotte, NC)
CHE Summit on Environmental Challenges to Reproductive Health and Fertility, Invited presentation: "Fetal and Early Postnatal Environmental Exposures and Reproductive Health Effects on Females" (San Francisco, CA)
Endocrine Society Symposium, Invited presentation: "Developmental Programming by Environmental Estrogens Determines Fibroid Risk" (Toronto, Canada)
TSC International Conference, Invited presentation: "Localization of TSC2 function to the Peroxisome" (Annapolis, MD)
WIRC Leadership Forum, AACR Annual Meeting, Invited Presentation: "Molecular Carcinogenesis 1" (Los Angeles, CA)
NICHD Uterine Fibroid Research Workshop, Invited presentation: "Cell Signaling Defects in Uterine Leiomyoma" (Bethesda, MD)

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- 2008** AAAS Annual Meeting, Invited presentation: "Hormones, the Environment, and Cancer" (Boston, MA)
Invited Participant, Women's Reproductive Health and the Environment Workshop, (San Francisco, CA)
The LAM Foundation/NHLBI Lymphangiomyomatosis International Research Conference, Invited presentation: "Dysregulation of cell cycle control in LAM" (Cincinnati, OH)
Gordon Conference: "Reproductive Tract Biology." Invited presentation: "Developmental Programming of Tumorigenesis in the Uterus" (Colby Sawyer, NH)
International Tuberous Sclerosis Conference, Invited presentation: "Polycystin/PKD1 regulation of TSC2/tuberin localization and function" (Brighton, England)
- 2009** Gordon Conference: "Cancer Genetics and Epigenetics." Invited presentation: "Developmental Programming of Tumor Suppressor Gene Penetrance" (Ventura, CA)
International LAM Foundation Research Conference, Invited presentation: "p27 Regulation and Hormone Responsiveness in LAM" (Cincinnati, OH)
2nd Endocrine Society Forum on Endocrine Disruptors, Invited presentation: "Environmental Estrogens: Integrating Toxicology and Endocrinology" (Washington, DC)
Cold Spring Harbor Conference: "Rat Genomics and Models." Invited Presentation: "Reprogramming the Rat Genome: Epigenetic Modulation of Tumor Suppressor Gene Penetrance" (Cold Spring Harbor, NY).
Second International Conference: "Fetal Programming and Developmental Toxicity" Invited presentation: "Developmental Reprogramming of Tumor Suppressor Gene Penetrance by Xenoestrogens" (Miami, FL)
6th Annual Uterine Cancer Symposium, Invited presentation: "Preclinical Studies and Clinical Co-Trials for Targeted Therapy of Endometrial Cancer" (Houston, TX)
Annual Meeting of Gulf Coast Chapter Society of Toxicology, Keynote speaker: "ATM-mediated Regulation of Autophagy by ROS" (Austin, TX)
Annual Meeting of the Obesity Society, Invited presentation: "Role of the AMPK Energy Signaling Pathway in Cancer" (Washington, D.C.)
30th Anniversary Meeting of Estrogens in the Environment Conference, Invited Presentation: "Nongenomic Signaling: Sidekick or Co-star in Developmental Reprogramming?" (New Orleans, LA)
- 2010** AACR Special Conference on Epigenetics, Invited Presentation: "Developmental Reprogramming Mediated by Post-Translational Modification of E2H2" (San Juan, Puerto Rico)
Invited Speaker, Keystone Conference on Metabolism and Cancer Progression, "Participation of TSC2 in a Cytoplasmic ATM Signaling Pathway that Regulates mTORC1 in Response to ROS" (Vancouver, BC)
Society for Gynecologic Investigation, Invited Presentation: "Early Life Exposures as Determinants of Risk for Uterine Leiomyoma" (Orlando, FL)
LAM Foundation International Research Conference, Invited Presentation: "ATM signals to TSC2 in the Cytoplasm to Regulate mTORC1 in Response to ROS" (Cincinnati, OH)
1st European LAM Conference, Invited Presentation: "At the Crossroads of Estrogen and TSC: New Therapeutic Targets for LAM" (Venice, Italy)
eHormone Estrogens in the Environment Conference, Invited Presentation: "Xenoestrogen-induced Regulation of E2H2 and Histone Methylation" (New Orleans, LA)
Keynote Speaker, Annual Meeting of the Southeast Regional Chapter of the Society of Toxicology, Keynote Speaker: "Reprogramming of the Epigenome During Development by Environmental Estrogens" (Columbia, SC)
Keynote Speaker, 3rd International NIH Conference on Advances in Uterine Leiomyoma

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Research, "Molecular Etiology of Fibroids: Opportunities for Prevention and Therapy"
(Bethesda, MD)

Invited Speaker for the Graduate Student Colloquium, University of South Carolina,
"Environmental Epigenomics: Developmental Reprogramming by Xenoestrogens"

2011 Keynote Address, International Life Sciences Institute (ILSI), "Environmental
Epigenomics: Developmental Reprogramming of Disease Susceptibility" (Orlando,
FL)

AACR Special Conference: "Targeting P13K/mTOR Signaling in Cancer." Invited
presentation: "ATM Signaling to TSC2 in the cytoplasm: The Secret Life of a DNA
Repair Protein" (San Francisco, CA)

Society of Toxicology Special Lecture, Smithsonian Museum, Invited presentation:
"Environmental Epigenomics: How our Environment Early in Life Determines our Risk
of Disease as Adults" (Washington, DC)

Society for Gynecologic Investigation, Invited presentation: "Molecular and Cellular
Origins of Uterine Fibroids" (Miami, FL)

Keystone Symposium: "Environmental Epigenomics and Disease Susceptibility" Invited
presentation: "Development Reprogramming by Environmental Estrogens"
(Asheville, NC)

International Workshop on Endocrine Disruptors, Invited presentation: Developmental
Reprogramming by Environmental Estrogens" (Sicily, Italy)

Society for Study of Reproduction, Invited presentation: "Developmental Reprogramming
of Cancer Susceptibility in the Developing Female Reproductive Tract by Environmental
Estrogens" (Portland, OR)

6th International Conference on the Reproductive Tract, Invited presentation:
"Reprogramming of Hormone Responsiveness and Susceptibility to Tumorigenesis in
the Developing Reproductive Tract" (Chlemsee, Germany)

Banbury Conference on Metformin, Invited presentation: "ATM Signaling to
AMPK/TSC2/TORC1 in Redox Homeostasis" (Cold Spring Harbor, NY)

San Antonio Breast Cancer Conference, Invited presentation: "Breast Cancer and the
Environment: Developmental Reprogramming by Early Life Environmental Exposures"
(San Antonio, TX)

2012 10th International VHL Medical Conference, Invited presentation: "The Cilia-
Centrosome Cycle" (Houston, TX)

International Ataxia Telangectasia Conference (ATW), Invited presentation: "ATM
Signaling to TSC2 in the Cytoplasm: A Genomic Stress Response Protein Moonlighting
at the Peroxisome" (New Delhi, India)

Society of Toxicology Annual Meeting, Invited presentation: "Environmental Epigenetics:
Developmental Reprogramming of Cancer Susceptibility" (San Francisco, CA)

Second Annual Kidney Cancer Collaborative Symposium, Invited presentation:
"Epigenomic Readers, Writers, and Erasers: Targets for RCC" (Houston, TX)

Invited Speaker, AACR Annual Meeting Educational Session "Environmental Epigenomics:
Developmental Reprogramming of Cancer Susceptibility" (Chicago, IL)

International LAMposium, Invited presentation: "TSC2 Tumor Biology: What do We Know
About Gene-Environment Interactions in TSC-Associated Disease" (Cincinnati, OH)

Endocrine Disruptors Gordon Conference: "Endocrine Disruptors." Invited presentation:
"Developmental Exposures to EDCs and Epigenetic (re) Programming of
Susceptibility to Reproductive Tract Cancer" (Mt. Snow, VT)

International Symposium on Emerging Female Cancers in Asia, Invited presentation:
"Environmental Estrogens and Hormone-related Cancer" (Taipei, Taiwan)

Aspen Cancer Conference, Invited presentation: "Developmental Reprogramming by
Environmental Exposures: Gene Environment Interactions that Increase Cancer Risk"
(Aspen, CO)

11th Annual American Association for Cancer Research International

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Conference: "Frontiers in Cancer Prevention Research Special Program for High School Students." Invited presentation: "The Conquest of Cancer and the Next Generation of Cancer Researchers" (Anaheim, CA)

28th Annual International Symposium on Radiation-associated Repair Proteins and DNA repair network, Invited presentation: "ATM Signaling to TSC2 in the Cytoplasm in Response to ROS" (Kyoto, Japan)

Society for Free Radical Biology in Medicine, Invited presentation: "ATM in the Cytoplasm: ROS acting as SOS Signals" (San Diego, CA)

- 2013** Key note speaker, NIEHS: "Women's Environmental Reproductive Health Consortium" (Raleigh/Durham, NC)
Keynote Speaker, SPRMS and Uterine Fibroids "Molecular Origins of Uterine Fibroids" (Barcelona, Spain)
Keynote Speaker, Texas Forum for Reproductive Sciences "Reprogramming of the Developing Reproductive Tract: Cross talk Between the Environment and the Epigenome" (Houston, TX)
AACR Annual Meeting, Invited presentation: "p27 Barometer for Cell Signaling Alterations and Therapeutic Target for Endometrial Carcinoma" (Washington, D.C.)
Gordon Conference: "Hormone Dependent Cancer." Invited presenter: "Reader, Writer and Eraser Targets for Developmental (re) Programming" (Smithfield, RI)
Session Chair, Rapid Responses to Steroid Hormones, "Steroids and Cancer" (Erie, PA)
20th Annual Prostate Cancer Foundation Scientific Retreat, Invited presenter: "Early Life Exposures (re)Program the Prostate Epigenome to Increase Prostate Cancer Risk" (Harbor, MD)
- 2014** Keystone Conference on Cilia: "Development and Human Disease." Invited presentation: "Targeting of Aurora Kinase A (AURKA) by the von Hippel-Lindau (VHL) Tumor Suppressor in Maintenance of the Primary Cilia" (Tahoe City, CA)
Keystone Conference on Epigenetic Programming and Inheritance, Invited presentation: "Developmental (re)Programming by Endocrine Disruptors: Environmental Cross-Talk with the Epigenetic Machinery" (Boston, MA)
NCI: "Multi-Scale Imaging for Integrative Cancer Biology Workshop." Invited presentation: "Seeing the Unknowable: Driving Cancer Research with High-content Microscopy" (Houston, TX)
AACR: "International Conference of Frontiers in Cancer Prevention Research." Invited presentation: "Developmental (re)programming of cancer risk: Epigenetic targets and opportunities for intervention" (New Orleans, LA)
International Research Conference on Tuberous Sclerosis Complex and Lymphangiomyomatosis, Invited presentation: "Translation of mTOR Signaling into Targeted Therapy" (Beijing, China)
National Cancer Institute Cancer Prevention Colloquium, Invited presentation: "Developmental (re)Programming by Endocrine Disruptors: Environmental Cross-talk with the Epigenetic Machinery" (Bethesda, MD)
Epigenetics Workshop: "Department of Environmental Medicine, University of Rochester." Invited Presentation: "Developmental (re)Programming by Endocrine Disruptors: Environmental Cross-talk with the Epigenetic Machinery" (Rochester, NY)
PPTOX IV: "Environmental Stressors in Disease and Implications for Human Health." Invited presentation: "Environmental Estrogen Activation of Non-Genomic Signaling to Developmentally (re)Program the Epigenome" (Boston, MA)
- 2015** International LAM Research Symposium, Invited presentation: "Gene-Environment Interactions that Determine Penetrance of TSC2 Defects" (Chicago, IL)
Society of Toxicology Symposium: "Chromatin Structure, Genomics, and Transcriptional Responses to the Environmental Insults." Invited presentation: "Epigenetic Targets for Developmental (re)Programming by Xenoestrogens" (San Diego, CA)

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Abcam Epigenetic Conference, Invited presenter: "SETD2: A Dual Microtubule and Chromatin Methyltransferase" (Houston, TX)
AACR Annual Meeting Symposium: "Epigenetic Mechanisms in Cancer Risk." Invited presenter: "(re)Programming of the Epigenome by MLL Links Early Life Environmental Exposures to Adult Cancer Risk" (Philadelphia, PA)
Bush U.S. China Relations Conference, "The Epigenome: Target for Environmental Exposures and Prevention Strategies to Improve Environmental Health" (Houston, TX)
Department of Systems Imaging Retreat, Invited presentation: "Seeing the Unknowable: Imaging Insights into the Secret Life of an Epigenetic Programmer" (New Braunfels, TX)
Council of State and Territorial Epidemiologists, Invited presentation: "Texas OneGulf: Disaster Research Response" (Atlanta, GA)
Abcam Epigenetics Conference: "PI3K-Like Protein Kinases" Invited presentation: "PIKKing out the Peroxisome: Role of ATM and mTORC1 in Selective Autophagy of Peroxisomes (pexophagy)" (Milan, Italy)
FASEB Conference: "Molecular and Systems Integration of Genomic and Nongenomic Steroid Hormone Action." Invited presentation: "Non-genomic Signaling to MLL Developmentally Reprograms Histone Methylation and Susceptibility to Prostate Carcinogenesis" (Big Sky, MN)
Faculty Mentor, Forbeck Scholar Retreat, William Guy Forbeck Research Foundation (Lake Geneva, WI)

2016

Keystone Conference: "Nuclear Receptors: Full Throttle." Invited presentation: "Environmental Estrogens Activate Nongenomic ER Signaling to Developmentally Reprogram the Epigenome" (Snowbird, UT)
Institute of Human Development Child and Youth Health, Canadian National Perinatal Research Meeting, Invited presentation: "Developmental (re)Programming of the Epigenome" (Banff, Canada)
Society of Toxicology Annual Meeting, Invited symposium speaker: "Environmental Epigenomics in Developmental Reprogramming" (New Orleans, LA)
Epigenomics, Invited presentations: "Non-Genomic Signaling to MLL Developmentally Reprograms Histone Methylation" and "Susceptibility to Prostate Carcinogenesis" (San Juan, PR)
Keynote Speaker, University of Minnesota Women's Health Research Conference, (Minneapolis, MN)
Forbeck Conference on Renal Medullary Carcinoma, Invited presentation: "Epigenetic Defects and Targets for Therapy" (Nashville, TN)
Ohio State University Midwest DNA Repair Conference, Invited presentation: "A New Role for Cytoplasmic ATM Linking Metabolism and Autophagy" (Columbus, OH)
International Agency for Research on Cancer (IARC), Invited presentation: "Epigenetics and Environmental Origins of Cancer" (Lyons, France)
NIEHS SOT 50th Anniversary Symposium, Invited presentation: "SOT-NIEHS Collaboration in Establishment of the Systemic Injury from Environmental Exposures (SIEE) Study Section at NIH", (Durham, NC)
NIEHS Endocrine Society 50th Anniversary Symposium, Invited presentation: "Developmental (re)Programming by EDCs: Insights into Epigenomic Plasticity Vulnerable to Disruption by Environmental Exposures" (Washington, D.C.)
IUTOX XIV International Congress of Toxicology, Invited presentation: "Developmental (re)Programming of the Epigenome by Environmental Exposures" (Merida, MX)
X Mexican Congress of Toxicology, Invited presentation: "Breast Cancer and the Environment: The U.S. Institute of Medicine 2011 Report" (Merida, MX)
Fels Research Institute: "Epigenetic Control in Development and Cancer Symposium." Invited presentation: "Dual Function Chromatin and Cytoskeleton Remodelers" (Philadelphia, PA)
Current Concepts in Toxicology Toxicogenomics Conference, Invited presentation: "Epigenomic Plasticity Vulnerable to Disruption by Environmental Exposures" (Reston,

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- VA)
Aspen Cancer Conference, Invited presentation: "Dual Function Chromatin Remodelers"
(Aspen, CO)
- 2017** National Tuberous Sclerosis Alliance: "International Research Conference on TSC and LAM: Innovating Through Partnerships." Invited presentation: "Regulation of Peroxisome Homeostasis by AMPK, ATM and mTOR Kinases" (Washington, D.C.)
Invited Speaker, SOT 56th Annual Meeting and ToxExpo, (Baltimore, MD)
UCONN Toxicology Scholars Colloquium, Invited presentation: "When the environment meets the epigenome: Developmental (re)programming and risk of adult disease" (Storrs, CT)
Invited Panelist, LSP Group LLC 2nd Annual Conference: "Genetics in Civil Law: Regulation, & Business, Opportunities & Risks." (Washington, D.C.)
Keynote Speaker, University of Kansas, Cancer Center, "A New Role for Epigenetic Stability: Dual Function Chromatin-Cytoskeleton Remodeling Proteins", (Olathe, KS)
ASPET Annual Meeting at Experimental Biology, Invited presentation: "Epigenetic Targets of Toxicity and Drivers of Disease" (Chicago, IL)
Cancer Prevention and Research Institute of Texas Innovation Conference, Invited presentation: "Epigenome: Environment Interactions — Impact on Cancer Risk and Targets for Prevention" (Austin, TX)
Invited Speaker, Federation of American Societies for Experimental Biology: "The Biology of Cilia and Flagella." (Snowmass Village, CO)
ASCB/EMBO conference, Invited presentation: "Peroxisome Mitochondrial Crosstalk in Cancer" (Philadelphia, PA)
Invited Participant, 2017 Inaugural Renal Medullary Carcinoma Alliance Meeting, (Washington, D.C.)
Dan L. Duncan Comprehensive Cancer Center Liver Cancer Symposium, Invited presentation: "Environmental Exposures and Reprogramming of the Liver Epigenome toward a Physiological 'set-point' Favoring NAFLD and HCC" (Houston, TX)
2nd Annual Liver Cancer Symposium at Baylor College of Medicine: Invited presentation: "Epigenetic Targets and Biomarkers of Risks for Nonalcoholic Fatty Disease" (Houston, TX)
- 2018** The Endocrine Society's 100th Annual Meeting and Expo, Invited presentation: "Reprogramming of the Epigenome by Early Life Environmental Exposures Increases Risk for Hormone-dependent Tumors" (Chicago, IL)
20th European Congress of Endocrinology, Invited presentation: "Early-life environmental exposure and prostate cancer risk" (Barcelona, Spain)
Workshop on Integrated Next-Gen Epigenomics, Invited presentation: "Epigenomic Plasticity as a Target for Environmental Exposures" (Albuquerque, NM)
- 2019** North Carolina Chapter of the Society of Toxicology, Invited presentation: "Developmental Reprogramming of the Epigenome: Early Life Exposures with Life-long Consequences" (Research Triangle Park, NC)
American College of Toxicology Distinguished Scientist award lecture: ""Epigenomic Plasticity as a Target for Environmental Exposures" (Orlando, FL)
National Institute of Environmental Health Sciences (NIEHS) Distinguished lecture "Epigenetic Plasticity as a Target For Environmental Exposures" (Research Triangle Park, NC)
Society of Toxicology Annual meeting joint Symposium with the Japan Society of Toxicology: "Epigenomic Reprogramming by Early Life Environmental Exposures", (Baltimore, MD)
Society of Toxicology Annual meeting Distinguished Toxicologist Award lecture: "Epigenome: Environment Interactions" (Baltimore, MD)

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- American Society for Investigative Pathology annual meeting, Invited presentation: "Developmental Reprogramming of the Epigenome by Early Life Environmental Exposures" (Orlando, FL)
- Lineberger Cancer Center Symposium, University of North Carolina, Invited presentation: "A New Role for Epigenetic "Readers, Writers and Erasers" in Cytoskeleton Remodeling" (Chapel Hill, NC)
- Interdisciplinary Environmental Toxicology Program Seminar Series, University of Illinois, Champaign-Urbana, Invited presentation: "Epigenome-Environment Interactions What the Epigenome Can teach us about Environmental Causes of Disease" (Champaign, IL)
- The Bohdan R. Nechay, Ph.D. Lectureship in Pharmacology, University of Texas Medical Branch Award lecture: "Environmental Epigenomics: What the Epigenome Can teach us about Environmental Causes of Disease" (Galveston, TX)
- 18th International Workshop on Ataxia-Telangiectasia invited presentation: "An AMPK-regulated Energy Pathway that Directs ATM Localization to the Peroxisome" (Houston, TX)
- Human Genetics Seminar Series, University of Texas Health Science Center at Houston School of Public Health, Invited Presentation "Epigenome-Environment Interactions: What the Epigenome Can Teach Us About Environmental Health" (Houston, TX)
- Dr. Wylie W. Vale, Jr. 2019 Memorial Lecture, Baylor College of Medicine, Invited presentation: "How Our Early Life Environment Determines Our Metabolic Health as Adults" (Houston, TX)
- Hurricane Harvey 2 Years After, A Symposium, Baylor College of Medicine, Session Chair and Houston Hurricane Harvey Health (Houston3H) Study: Introduction (Houston, TX)
- Research!Louisville, University of Louisville Keynote Address: "Epigenome-Environment Interactions What the Epigenome Can teach us about Environmental Causes of Disease" (Louisville, KY)
- 2020** Clinical Scientist Training Program, Baylor College of Medicine, Invited Keynote Speaker: "A New Role for Epigenetic "Readers, Writers and Erasers" in Cytoskeleton Remodeling" (Houston, TX)
- P30 NIEHS Center for Northern Manhattan, Columbia University, Invited presentation: "Epigenetic Reprogramming by Early-Life Environmental Exposures" (New York, NY)
- 2021** Speaker: A Deep Dive into Development and Cancer Plenary, "Cytoskeletal Methylation: A New Cancer Target for the Epigenetic Machinery Outside the Nucleus", Endocrine Society Annual Meeting (virtual)
- Keynote Speaker, Annual Meeting, Environmental Mutagenesis and Genomics Society "Reprogramming of the Epigenome by Early Life Exposures: Impact on cancer Risk in Adulthood (virtual)

C. Publications

1. Full papers Published in Peer-Reviewed Journals

1. **Walker, C.** and Shay, J.W. Effect of mitochondrial dosage on transfer of chloramphenicol resistance. *Somatic Cell Genetics*, 9: 469-476, 1983.
2. **Walker, C.**, Ranney, D.F. and Shay, J.W. 5-Azacytidine induced uncoupling of differentiation and neoplasia. *J. Nat. Cancer Inst.*, 73: 877-855, 1984.
3. **Walker, C.** and Shay, J.W. 5-Azacytidine induced myogenesis in a differentiation defective cell line. *Differentiation*, 25: 259-263, 1984.
4. **Walker, C.** and Nettlesheim, P. In vitro transformation of primary rat tracheal epithelial cells by 5-azacytidine. *Cancer Res.*, 46: 6433-6437, 1986.
5. **Walker, C.**, Nettlesheim, P., Barrett, J.C. and Gilmer, T. Expression of a fms related oncogene

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- in carcinogen induced neoplastic epithelial cells. *PNAS (USA)*, 84: 1804-1808, 1987.
6. **Walker, C.**, Matthews, A.M. and Shay, J.W. Suppression of tumorigenicity mediated by 5-Azacytidine is associated with increased chromosome number. *J. Natl. Cancer Inst.*, 78: 695-700, 1987.
 7. Ferriola, P.C., **Walker, C.**, Robertson, A.T., Rusnak, D., Earp, H.S. and Nettesheim, P. Growth factor requirements and expression in normal and transformed rat tracheal epithelial cells: implications for the autocrine role of TGF α . *Molec. Carcinogenesis*, 2: 336-344, 1989.
 8. Stewart, W. and **Walker, C.** Comparison of nylon membranes. *Methods in Molec. Cell. Biol.*, 1: 73-76, 1989.
 9. **Walker, C.** and Nettesheim, P. Cellular oncogene expression in cell lines derived from tumors produced by rat tracheal epithelial cells. *Molec. Carcinogenesis*, 2: 117-120, 1989.
 10. **Walker, C.** and Nettesheim, P. In vitro neoplastic progression of transformants generated by diverse carcinogens. *Cancer Res.*, 49: 4427-4430, 1989.
 11. **Walker, C.**, Nettesheim, P., Barrett, J. C., Jirik, F.R., Sorge, J., Joyce, M. and Gilmer, T. Mouse retroviral sequences acquired by cell lines after passaging through nude mice detected by hybridization of the *fms* probe pSM3. *Cancer Res.*, 49: 625-628, 1989.
 12. Bermudez, E., Everitt, J. and **Walker, C.** Expression of growth factor and growth factor receptor RNA in rat pleural mesothelial cells in culture. *Exp. Cell Res.*, 190: 91-98, 1990.
 13. Endo, S., Oshimura, M., Nettesheim, P. and **Walker, C.** Non-random chromosome alterations that correlate with progression to immortality in rat tracheal epithelial cells transformed with MNNG. *Cancer Res.*, 50: 740-747, 1990.
 14. Recio, L., Lane, S., Ginsler, J. and **Walker, C.** Analysis of *ras* DNA sequences in rat renal cell carcinoma. *Molec. Carcinogenesis*, 4: 350-353, 1991.
 15. **Walker, C.**, Everitt, J., Freed, J.J., Knudson, Jr., A.G. and Whiteley, L.O. Altered expression of rat TGF- α in hereditary renal cell carcinoma. *Cancer Res.*, 51: 2973-2978, 1991.
 16. Funaki, K., Everitt, J., Oshimura, M., Freed, J.J., Knudson, A.G., and **Walker, C.** Hereditary renal cell carcinoma in the rat associated with nonrandom loss of chromosomes 5 and 6. *Cancer Res.*, 51: 4415-4422, 1991.
 17. Funaki, K., Everitt, J., Bermudez, E., and **Walker, C.** Trisomy of rat chromosome 1 associated with mesothelial cell transformation. *Cancer Res.*, 51: 4059-4066, 1991.
 18. Recio, L., Sisk, S., Pluta, L., Bermudez, E., Gross, E.A., Chen, Z., Morgan, K., and **Walker, C.** p53 mutations in formaldehyde-induced nasal squamous cell carcinomas in rats. *Cancer Res.*, 52: 6113-6116, 1992.
 19. Everitt, J., Goldsworthy, T., Wolf, D. and **Walker, C.** Hereditary renal cell carcinoma in the Eker rat: A rodent familial cancer syndrome. *Journal of Urology*, 148: 1932-1936, 1992.
 20. **Walker, C.**, Goldsworthy, T.L., Wolf, D., and Everitt, J. Predisposition to renal cell carcinoma due to alteration of a cancer susceptibility gene. *Science*, 255: 1693-1695, 1992.
 21. **Walker, C.**, and Ginsler, J. Development of a quantitative in vitro transformation assay for rat kidney epithelial cells. *Carcinogenesis*, 13: 25-32, 1992.
 22. **Walker, C.**, Bermudez, E., Stewart, W., Malloy, C., Bonner, J., Brody, A., and Everitt, J. Characterization of PDGF and PDGF-receptor expression in fiber-induced rat mesothelioma. *Cancer Res.*, 52: 301-306, 1992.
 23. Horesovsky, G., Ginsler, J., Everitt, J. and **Walker, C.** Increased susceptibility to in vitro transformation of cells carrying the Eker tumor susceptibility mutation. *Carcinogenesis*, 15: 2183-2187, 1994.
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26. **Walker, C.L.** Epigenomic Reprogramming of the Developing Reproductive Tract and Disease Susceptibility in Adulthood. *Birth Defects Research*, 91(8):666-671, 2011.
27. Kim, J., Oho, N., Conti, C.J., Gimenez-Conti, I.B., and **Walker, C.L.**, Immunohistochemical Analysis of mTOR activity in tissues. *Methods Molecular Biology*, 821: 215-225, 2012.
28. Klionsky, D.J., and 1269 co-authors, including **Walker, C.L.** Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, 8: 445-454, 2012.
29. Treviño, L.S., Wang, Q., and **Walker, C.L.** Phosphorylation of epigenetic "readers, writers and erasers": Implications for developmental reprogramming and the epigenetic basis for health and disease. *Progress in Biophysics & Molecular Biology*, 118: 8-13, 2015.
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31. Tripathi, D.N. and **Walker, C.L.** The Peroxisome as a Cell Signaling Organelle. *Current Opinion in Cell Biology*, 39: 109-112, 2016.
32. Klionsky, D. J. et. al "Guidelines for the use and interpretation of assays for monitoring autophagy (3rd Edition), *Autophagy*, 12: 1-222, 2016
33. Tripathi DN, Zhang J, Jing J, Dere R, **Walker CL.**, A new role for ATM in selective autophagy of peroxisomes (pexophagy). *Autophagy* 12:711-712, 2016
34. **Walker, C.L.** "Epigenetic Plasticity and vulnerability to EDC Exposure" *Molecular Endocrinology*, 30: 848-855, 2016.
35. Katz, T.A., Yang, Q., Trevino, L.S., **Walker, C.L.**, Al-Hendy, A. Endocrine disrupting chemicals and uterine fibroids. *Fertility and Sterility* 106: 967-977, 2017.
36. Foulds, C.E., Trevino, L.S., York, B., and **Walker, C.L.** Endocrine disruptors and fatty liver disease. *Nature Reviews in Endocrinology*, 13: 445-457, 2017.
37. Beckermann, K.E., Sharma, D., Chaturvedi, S., Msaouel, P., Abboud, M.R., Allory, Y., Bourdeaut, F., Calderaro, J., de Cubas, A.A., Derebail, V.K., Hong, A.L., Naik, R.P., Malouf, G.G., Mullen, E.A., Reuter, V.E., Roberts, C.W.M., **Walker, C.L.**, Wood, C.G., DeBaun, M.R., Van Poppel, H., Tannir, N.M., and Rathmell, W.K. Renal Medullary Carcinoma: Establishing Standards in Practice. *Journal of Oncology Practice*, 13: 414-421, 2017.
38. **Walker, C.L.**, Pomatto, L.C.D., Tripathi, D.N., and Davies, K.J.A. Redox regulation of Homeostasis and Proteostasis in Peroxisomes. *Physiological Reviews*, 98: 89-115, 2018.
39. Herceg, Z., Ganthous, A., Wild, C., Sklias, A., Casati, L., Duthie, S.J., Fry, R., Issa, J.-P., Kellermayer, R., Koturbash, I., Kondo, Y., Lepeule, J., Lima, S.C.S., Marsit, C.J., Rakyán, V., Saffery, R., Taylor, J., Teschendorff, A., Ushijima, T., Vineis, P., **Walker, C.L.**, Waterland, R., Wiemels, J., Ambatipudi, S., Degli E.D., and Hernandez-Vargas, H. A roadmap for investigating epigenome deregulation and environmental causes of cancer. *International Journal of Cancer*, 142: 874-882, 2018.
40. Msaouel, P., Tannir, N. and **Walker, C.L.** A Model Linking Sickle Cell Hemoglobinopathies and SMARCB1 Loss in Renal Medullary Carcinoma. *Clinical Cancer Research*, (in press).

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41. Wang, T., Pehrsson, E.C., Purushotham, D., Li D., Zhuo, X., Zhang, B., Lawson, H.A., Province, M.A., Krapp, C., Lan, Y., Coarfa, C., Katz, T.A., Tang, W.Y., Wang, Z., Biswal, S., Rajagopalan, S., Colacino, J.A., Tsai, Z.T., Sartor, M.A., Neier, K., Dolinoy, D.C, Pinto, J., Hamanaka, R.B., Mutlu, G.M., Patisaul, H.B., Aylor, D.L., Crawford, G.E., Wiltshire, T., Chadwick, L.H., Duncan, C.G., Garton, A.E., McAllister, K.A.; TaRGET II Consortium, Bartolomei MS, *Walker CL, and Tyson FL. "The TaRGET II Consortium and Environmental Epigenomics." **Nature Biotechnology**, 36: 225-227, 2018. * Co-corresponding author
42. Msaouel, P., Walker, C.L., Genovese, G. and N. M. Tannir. Molecular hallmarks of renal medullary carcinoma: more to c-MYC than meets the eye. **Mol Cell Oncol.**, 5:1777060, 2020.
43. Walker, C. and Bruggren, W. Remodeling the epigenome and (epi)cytoskeleton: a new paradigm for co-regulation by methylation. **Journal of Experimental Biology** PMID: 32620673 PMCID: PMC7338266 (available on 2021-07-03) DOI:10.1242/jeb.

3. Abstracts Not tracked

4. Books

a. Complete Books Written

N/A

b. Books Edited:

1. Walker, C., Groopman, J., Slaga, J., and Klein-Szanto, A. Genetics and Cancer Susceptibility - Implications for Risk Assessment. Vol 395, Wiley-Liss, NY, 1996.

c. Book Chapters Written:

1. Shay, J.W. and Walker, C. Cells in culture as studied by scanning electron microscopy. In: R. Becker and O. Johari (eds.), Scanning Electron Microscopy, pp. 171-178, Vol. II, 1980.
2. Walker, C. and Shay, J.W. Epigenetic suppression of tumorigenesis mediated by 5-azacytidine. In: J.M. Bishop, M. Greaves and J.D. Rowley (eds.), Genes and Cancer, 17, pp. 569-582. Alan R. Liss, NY UCLA Symp. on Molecular and Cellular Biology, 1984.
3. Walker, C., Gilmer, T.M. and Nettesheim, P. Alterations in cellular oncogenes during neoplastic transformation of rat tracheal epithelial cells. In: R. Langebach, J.C. Barrett, and E. Elmore (eds.), Tumor Promoters: Biological Approaches for Mechanistic Studies and Assay Systems, pp. 305-315. Raven Press, NY, 1988.
4. Greenlee, W.F., Skopek, T.R., Gaido, K. and Walker, C. Comparative genetic mechanisms of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-induced tumors. In: D. Stevenson and T. Slaga (eds.), Mouse Liver Carcinogenesis: Mechanisms and Species Comparisons, pp. 177-186. Alan R. Liss, NY, 1990.
5. Walker, C., Bermudez, E., Stewart, W. and Everitt, J. Growth factor and growth factor receptor expression in transformed rat mesothelial cells. In: R.C. Brown, J.A. Hoskins, N.F. Johnson (eds.), Proceedings of the NATO Advanced Research Workshop on Mechanisms in Fibre Carcinogenesis, pp. 377-383. Plenum Press, NY, 1991.
6. Walker, C., Bermudez, E. and Everitt, J. Growth factor and receptor expression by mesothelial cells: A comparison between rodents and man. In: B. Brinkley, J. Lechner, and C. Harris (eds.), Cellular and Molecular Fiber Carcinogenesis, pp. 149-158. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1991.
7. Walker, C., Funaki, K., Recio, L. and Everitt, J. Cytogenetic and molecular correlates between rodent and human renal cell carcinoma. In: A. Klein-Szanto, M. Anderson, J.C. Barrett and T.J. Slaga (eds.), Comparative Molecular Carcinogenesis, pp. 289-303. Wiley-Liss, 1992.

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8. Walker, C. and Everitt, J. Molecular Approaches to Understanding Mechanisms of Mesothelioma Development. In: D. Warheit (ed.), *Contemporary Issues in Fiber Toxicology*, pp. 195-206. Academic Press, 1993.
9. Walker, C. Genetic susceptibility to in vivo and in vitro chemical transformation. In: *Genetics and Cancer Susceptibility: Implications for Risk Assessment*, C. Walker, J. Groopman, T. Slaga, and A. Klein-Szanto, (eds.) *Progress in Clinical and Biological Research 395*: 13-22, Wiley Liss, NY, 1996.
10. Everitt, J.I., Walker, C.L., Goldsworthy, T., and Wolf, D.C. Hereditary Renal Cell Adenoma and Carcinoma, Rat. In: *ILSI Monograph on Pathology of Laboratory Animals, Urinary System*, 2nd Edition, 1996.
11. Nanus, D., and Walker, C. Experimental models of renal cancer. In: *Principles and Practice of Genitourinary Oncology*. D. Raghavan, H.I. Scher, S.A. Leibel and P. Lange eds., J.B. Lippincott Co., 1996.
12. Howe, S.R., Everitt, J.L., Gottardis, M.M., and Walker, C. Rodent Model of Reproductive Tract Leiomyomata: Characterization and use in Preclinical Therapeutic Studies. In: *Etiology of Breast and Gynecological Cancers*, J. McLachlan and T.J. Slaga, (eds.) *Progress in Clinical and Biological Research 396*: 205-215, Wiley Liss, NY, 1997.
13. Johnson, D.G., and Walker, C.L. Cyclins and Cell Cycle Checkpoints. *Annual Review of Pharmacology and Toxicology 39*: 295-312, 1999.
14. Walker, C.L. Modeling Genetic Susceptibility in Rodents. In: *Cellular and Molecular Toxicology*, J.P. Vanden Heuvel and G.H. Perdew (eds), Vol XX *Comprehensive Toxicology Series*, Academic Press, 2001.
15. Walker, C. Role of Hormonal and Reproductive Factors in the Etiology and Treatment of Uterine Leiomyoma. In: *Reproductive Hormones and Human Health. Recent Progress in Hormone Research*. Means A.R. (ed), *The Endocrine Society, Vol 57*, 2002.
16. Walker, C.L. Renal Cell Carcinoma: The Human Disease In: *The Kidney: From Normal Development to Congenital Abnormalities*. Vise, P.D., Woolf, A.S. and Bard, J.B.L. (eds) Elsevier Science, 452-457, 2003.
17. Cook, J.D. and Walker, C.L. Treatment Strategies for Uterine Leiomyoma: The Role of Hormonal Modulation. In: *Uterine Leiomyomas: Options and Choices*. Carr, B.R. and Christman, G.M. (Eds) *Seminars in Reproductive Medicine, Volume 22*:105-111, 2004.
18. Greer, L.E., Bus, J.S., Groopman, J.D., Moore, J.A., Ramos, K.S., Walker, C.L., Zacharewski, T.R. *Toxicogenomic Technologies and Risk Assessment of Environmental Carcinogens*. The National Academies Press, 2005.
19. Greathouse, L. and Walker C.L. Mechanisms of Endocrine Disruption In: T.J. Woodruff, S. Janssen, L. Guillette, and L. Giudice (eds.), *Environmental Impacts on Reproductive Health and Fertility*, Cambridge University Press, 2010.
20. Bredfeldt, T.G. and Walker, C.L. The Role of Epigenetics in Molecular Toxicology In: C.A. McQueen (ed), *Comprehensive Toxicology*, 2nd Edition, 2010.
21. Treviño, L.S and Walker, C.L. The Role of Epigenetics in Molecular Toxicology In: C.A. McQueen (ed), *Comprehensive Toxicology*, 3rd Edition", 2018.
22. Katz T.A. and Walker, C.L. Implications for Chromatin Biology in Toxicology In S.D. McCullough and D.C. Dolinoy (ed), *ToxicoEpigenetics: Core Principles and Applications*, 2018.

5. Other Works Communicating Research to Scientific Colleagues

N/A

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6. Other Works Communicating Research to General Public

N/A

III. TEACHING INFORMATION

A. Didactic Coursework

1. Courses taught at current institution

BCM Translational Biology and Molecular Medicine Bench to Bedside Series
"Renal Cancer" Fall quarter 2017 Role: Course Organizer and Lecturer

2. Courses taught at other institutions (hours not tracked)

UT Graduate School of Biomedical Sciences
Science Park: Basic Concepts in Tumor Biology
Science Park: Mechanisms of Carcinogenesis
Science Park: Histopathology of Neoplasia

UT MD Anderson Cancer Center
Translational Cancer Biology: Cancer Epigenetics and Targets for Therapy
CME course "Renal Cell Carcinoma" for Italian oncologists

University of Texas at Dallas
Chemical Basis of Biology Laboratory

Other

University of Texas Southwestern Medical Center: Cell Biology and Medical Histology
North Carolina State University: Chemical Carcinogenesis
University of Texas at Austin: Biochemical Toxicology
Continuing Education Course "Molecular Control of Cell Proliferation" SOT Annual Meeting
Continuing Education Course "Molecular Genetics, Metabolisms, and Cell Signaling in Renal Carcinogenesis: A Lesson in Synergistic Toxicology", SOT Annual Meeting

B. Nondidactic Teaching

1. Resident Training

N/A

2. Clinical Fellow Training

2016-2018 UT MD Anderson GU Fellow Dr. Pavlos Msaouel
(Current position: Assistant Professor, UT MD Anderson Cancer Center)

3. Research Fellow Training

Dr. Pavlos Msaouel, 2017-2019
Dr. Jean-Philippe Bertocchico, 2019-2020

Postdoctoral Fellows

Dr. Robert Whitehead, 1991-1992
Dr. Gregory Horesovsky, 1991-1992
Dr. Dawn Frazier Knapek, 1993-1994
Dr. Elena Kleymenova, 1994-2002, Recipient, Brigid G. Leventhal Scholar Award in Cancer Research (2000)
Dr. Ayesha Perera, 1997-1999
Dr. Peter Vonier, 1998-2000
Dr. Hui Xu, 1999-2000
Dr. Hiroki Kugo, 1999-2001
Dr. Debra Swafford-Hunter, 1996-2002 – Recipient, Brigid G. Leventhal Scholar Award in

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Cancer Research (2002), LAM Foundation Postdoctoral Fellowship Award (1998)
Dr. Thea Clipson, 2002-2003
Dr. Judith Bergeron, 2002-2006
Dr. Charles Cai, 2000-2007 – Recipient, AACR AstraZeneca Scholar-in-Training Award (2005),
Recipient, AFLAC Scholar-in-Training Award (2004)
Dr. John Short, 2003-2007 – Recipient, DOD TSC Concept Award (2005, \$100,000 direct)
Dr. Adrian Nanez, 2007-2008
Dr. Jinhee Kim, 2005-2011
Dr. Tiffany Bredfelt, 2006-2010 – Recipient, NRSA Ruth Kirschstein Award (2007)
Dr. Ruhee Dere, 2006-2011 – Recipient, PKD Foundation Postdoctoral Fellowship
Award (2006)
Dr. Guang Chen, 2011-2012
Dr. Meg Mittelstadt, 2011-2013
Dr. Lijun Zhou, 2011-2013
Dr. Corey Rubel, 2012-2013
Dr. Quan Wang, 2012-2015
Dr. Jiangwei Zhang, 2010-2016
Dr. Durga Tripathi, 2011-2016 Recipient of the Emil Pfitzer Drug Discovery in Toxicology
Postdoctoral Award, Molecular Biology Specialty Section, Postdoctoral Award and the
Young Investigator International Travel Award from the Society of Toxicology
Dr. Elshad Hasanov, 2012-2016 Recipient Texas A&M University Institute for Genome Sciences
and Society 2nd Place Poster in the category of Genetics and Genomics, AACR
Scholar-in-Training Award; Oral Presentation Award, American Physician Scientist
Association South Regional Meeting
Dr. Lindsey Trevino, 2014-2016 Recipient of the MARC Travel Award (FASEB); Young
Investigator Award, Women in Endocrinology; Keystone Symposia Fellow,
Outstanding Abstract Award, The Endocrine Society; Texas A&M Health Science
Center Postdoctoral Association Travel Award, recognition as “Future Research
Leader” by the National Institutes of Health
Dr. Adriana Gaitan-Espinoza, 2019-2020
Dr. Rahul Jangid, 2018-2021
Dr. Menuka Karki, 2017-2021 Recipient Keystone Symposia “Future of Science Fund”
Scholarship
Dr. Matthias Konning, 2018-Present
Dr. Xianlong Wang, 2019-Present
Dr. Kevin Klatt, 2021-Present

Visiting Scientists:

Dr. ZhuChu Chen, Hunan Medical College, China, 1990-1992
Dr. Fons Rutten, TNO Netherlands, 1991-1992
Dr. Elena Kleymenova, USSR Academy of Medical Sciences, Russia, 1992
Dr. Sunam Kim, Korea Inst of Science and Technology, Gangneung Institute, 2008-2009

Research Scientists/Instructors/Assistant Professors:

Dr. Leeyean Wong, 2011-2013
Dr. Lindsey Trevino, 2016-2018
Dr. Tiffany Katz, 2016-2019
Dr. Ruhee Dere, 2011-present
Dr. In Young Park, 2011-present
Dr. Durga Tripathi, 2016-present
Dr. Rahul Jangid, 2021-Present

4. Graduate Student Training

**a. UT Graduate School of Biomedical Sciences (GSBS)
Thesis Committee, Chair**

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- S. Howe, 1993-1995, Texas A&M
- K. Burroughs, 1995-1998, UT Austin– Recipient Women in Endocrinology Travel Award
- L. Hodges, 1997-2002, G.S.B.S.
- K. Houston, 1999-2004, G.S.B.S.
- M. Liu, 1999-2004, UT Austin – 2005 Winner, Outstanding Dissertation Award, College of Pharmacy, U.T. - Austin
- J. Cook, 2001-2005, G.S.B.S. – Recipient of the American Legion Auxiliary Fellowship in Cancer Research (competitively awarded fellowship), 2004 Keystone Symposia Scholarship (competitively awarded by NICHD/NIH)
- L. Greathouse, 2005-2010, G.S.B.S. – Recipient of the Society of Toxicology Carcinogenesis Specialty Section Merck Travel Award, the R.W. Butcher Achievement Award, and the Schissler Foundation Fellowship in the Genetics of Human Disease
- A. Alexander, 2005-2011, G.S.B.S. – Recipient of the AACR-Merck Scholar-in-Training Award, MD Anderson Alumni and Faculty Association Graduate Student Award in Basic Science, Andrew Sowell-Wade Huggins Graduate Fellowship in Cancer Research, Tzu-Chi Scholarship for Excellence, R.W. Butcher Achievement Award, and the AACR-Aflac Scholar-in-Training Award

Advisory Committee Member:

- Chair, Thesis Advisory Committee, S. Howe, 1993-1995, Texas A&M
- Chair, Thesis Advisory Committee, K. Burroughs, 1995-1998, UT Austin
- Chair, Thesis Advisory Committee, L. Hodges, 1997-2002, G.S.B.S.
- Chair, Thesis Advisory Committee, K. Houston, 1999-2004, G.S.B.S.
- Chair, Thesis Advisory Committee, M. Liu, 1999-2004, UT Austin
- Chair, Thesis Advisory Committee, J. Cook, 2000-2005, G.S.B.S.
- Chair, Thesis Advisory Committee, Angela Alexander, 2005-present, G.S.B.S.
- Chair, Thesis Advisory Committee, Leigh Greathouse, 2005-present, G.S.B.S.
- Member, Thesis Advisory Committee, D. Keleman, 1990-1992, N.C.S.U.
- Member, Thesis Advisory Committee, L. Hansen, 1991-1992, N.C.S.U.
- Member, Thesis Advisory Committee, A. Futrel, 1991-1992, U.N.C.
- Member, Thesis Advisory Committee, R. Bowes, 1992-1994, Texas A&M
- Member, Thesis Advisory Committee, A. Robles, 1992-1995, U.T.H.S.C. Houston, G.S.B.S.
- Member, Thesis Advisory Committee, J. Zenklusen, 1993-1995, U.T.H.S.C. Houston, G.S.B.S.
- Member, Thesis Advisory Committee, M. Stern, 1995-1997, G.S.B.S.
- Member, Thesis Advisory Committee, J. Tucker, 1995-1999, Texas A&M
- Member, Thesis Advisory Committee, J. Martinez, 1996-1999, G.S.B.S.
- Member, Thesis Advisory Committee, H.-S. Yoon, 1997-2000, UT Austin
- Member, Thesis Advisory Committee, N. Alexandro, 1998-2000, Texas A&M
- Member, Thesis Advisory Committee, E. Willingham, 1999-2000, UT Austin
- Member, Thesis Advisory Committee, R. Roundbehrer, 1999-2004, G.S.B.S.
- Member, Thesis Advisory Committee, Guobin He, 2002-2005, G.S.B.S.
- Member, Thesis Advisory Committee, Adrienne McCampbell, 2005-2006, G.S.B.S.
- Member, Thesis Advisory Committee, A. Painter, 1998-2006, G.S.B.S.
- Member, Thesis Advisory Committee, Stephanie Harkey, 2005-2008, G.S.B.S.
- Member, Thesis Advisory Committee, Brian Hammann, 2005-2008, G.S.B.S.
- Member, Thesis Advisory Committee, Ann Painter, 2006, G.S.B.S.
- Member, Thesis Advisory Committee, Raju Pusapati, 2006-2008, UT Austin
- Member, Thesis Advisory Committee, Amy Lake, 2006-2009, G.S.B.S.
- Member, Thesis Advisory Committee, Karina Falbo, 2005-2009, G.S.B.S.
- Member, Thesis Advisory Committee, Michelle Reith, 2010-2012, G.S.B.S.
- Member, Thesis Advisory Committee, Margie Sutton, 2012-present, G.S.B.S.

TRIUMPH Program (MD Anderson Cancer Center)

- Member, Thesis Advisory Committee, Aaron Frank Orozco, 2012-present

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Undergraduate and Allied Health Students:

C. Cicco, CIIT Summer Intern, 1990
S. Lane, CIIT Summer Intern, 1991
R. Anderson, Science Park Summer Intern, 1995, 1996
K. Hude, Science Park Summer Intern, 1998
J. Bergerson, Science Park Summer Intern, 1998, 1999
J. Mullins, Science Park Summer Intern, 2000
E. Cloninger, Science Park Summer Intern, 2002
J. R. German, Science Park Summer Intern, 2002
D. Walker, Science Park Summer Intern, 2005
C. Franklin, Science Park Summer Intern, 2005
J. Rasnik, Science Park Summer Intern, 2008

Other Training Activities

Coordinator, CIIT Summer Student Intern Program 1989-1990
Member, Graduate Studies Committee, Department of Carcinogenesis 1994-2011
Elected, Steering Committee, Program in Environmental and Molecular Carcinogenesis, GSBS 2000-2002

b. Medical Sciences Program, Texas A&M College of Medicine

R. Powell, 2012-2016, School of Graduate Studies Texas A&M Health Science Center
First Prize: Oral Presentation, 2014 Annual Trainee Symposium, IBT
J. Jing, 2012-2018 School of Graduate Studies Texas A&M Health Science Center
TAMU Graduate Student Travel Award 2016; 2017 Oral Presentation Award,
Society of Chinese Bioscientists in America, 2017 American Society for Cell
Biology (ASCB) Immigrant Travel Award, 2017 The Best Poster Award (3 out of
90+ posters) Gordon Research Conference in Organellar Channels and
Transporters, 2017 Travel Award, Texas A&M Institute of Biosciences and
Technology, 2018 Graduate Research Excellence Award Texas A&M College of
Medicine

**c. Graduate School of Biomedical Sciences, Baylor College of Medicine
Molecular and Cellular Biology Training Program**

Riyad Seervai, 2017-2020 Thesis Advisor (M.D./Ph.D. Medical Sciences Training
Program) American Society for Cell Biology Travel Award 2019, Recipient
American Heart Association Predoctoral Fellowship 2019-2020 (PRE34430069),
Tony Means Award for Academic Excellence, Second Place Poster Presentation
MCB Symposium, Second Place poster Annual GSBS Symposium, Selection for
oral presentation at the Keystone Symposium "Cancer Epigenetics".
Jason Scovall, 2016-2019 Thesis Committee member

Molecular and Human Genetics Training Program

Venkatasubramaniam Sundaramurthy 2018 Qualifying Exam Committee member
Kristen Panthagani, nee. Meyer 2019-2020, Thesis Advisor
Nathan Achilly, 2018-2021, Thesis Committee member
Harlie Cope, 2020-Present, Thesis Advisor
Edward Pietryk III, 2021-Present, Thesis Advisor

Medical Scientist Training Program

Oral Presentation Judge, 2018 Annual Retreat

Undergraduate Students Laboratory Research Observers

Munevver Duran

Graduate Student Laboratory Rotations

Katie Pendleton, 2020 Program in Genetics and Genomics
Sidhant Kalia, 2020 Program in Genetics and Genomics
Dane Hoffman, 2020 Program in Cancer and Cell Biology
Gary Huang, 2020, Program in Genetics and Genomics
Bailey Martin-Giacalone, 2019 Department of Molecular and Cellular Biology
Yuan L, 2019 Department of Molecular and Cellular Biology
Youchen Guan, 2019 Department of Molecular and Cellular Biology
Peter Kim, 2018 Department of Molecular and Cellular Biology
Kristen Meyer-Panthagani, 2018 Department of Molecular and Human Genetics
Collin Johnson, 2017 Program in Translational Biology and Molecular Medicine
Nika Juricic, 2017 Department of Molecular and Cellular Biology

Other Teaching

2019 BCM, Medical Scientist Training Program, Biomedical Sciences Research Seminar
2019 Clinical Scientist Training Program, Baylor College of Medicine, Invited Keynote
Speaker: "A New Role for Epigenetic "Readers, Writers and Erasers" in Cytoskeleton
Remodeling"
2020 BCM, Medical Scientist Training Program, Biomedical Sciences Research Seminar

d. Administrative:

2012 Chair, Alfred G. Knudson Outstanding Dissertation Award Committee, GSBS
2011-2014 Member, GSBS Executive Committee
2018-Present, Principal Investigator and Director, T32 Training Program in Precision
Environmental Health Sciences (TPEHS)

C. Lectures and Seminars

- 1990** N.C. Association of Two Year/Community College Biologists
National Cancer Institute, Laboratory of Viral Carcinogenesis
- 1991** University of North Carolina, Monthly Carcinogenesis Seminar Series
Procter and Gamble Company, Genetic Toxicology Section
- 1992** Purdue University, Department of Biochemistry
Johns Hopkins University, Department of Environmental Health Sciences
Memorial Sloan Kettering Cancer Center, Laboratory of Mammalian Cell Transformation
Brown University, Pathobiology Seminar Series
New York University Medical Center, Institute of Environmental Medicine
- 1993** Japanese Cancer Institute, Department of Experimental Pathology
Texas A&M University, Department of Veterinary Physiology and Pharmacology
University of Texas, College of Pharmacy, Division of Pharmacology and Toxicology
University of Texas M.D. Anderson Cancer Center, Department of Cell Biology
University of Texas M.D. Anderson Cancer Center, Department of Medical Oncology
University of Chicago, Department of Hematology Oncology
National Institute of Environmental Health Sciences, Laboratory of Molecular
Carcinogenesis
University of Texas Health Science Center, Department of Pharmacology
- 1994** Norwegian Radium Hospital, Department of Environmental and Occupational Cancer
NIEHS, Laboratory of Molecular Carcinogenesis
Eli Lilly Research Laboratories
Ligand Pharmaceuticals Inc.

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University of Texas Southwestern Medical School, Department of Cell Biology

- 1996** Fred Hutchinson Cancer Research Center
Vanderbilt Cancer Center
Gulf Coast Chapter Society for Toxicology
Southwest Section Society for Experimental Biology and Medicine
National Institute of Environmental Health Sciences
National Institute of Environmental Health Sciences, Laboratory of Molecular Carcinogenesis
University of Wisconsin, McArdle Laboratory for Cancer Research
Baylor College of Medicine, Department of Molecular Virology
- 1997** Wyeth-Ayerst Pharmaceutical Company
Texas A&M University
National Cancer Institute, Frederick
University of California San Francisco Cancer Center
University of Wurtzberg
Medical Research Council, UK
University of Minnesota
- 1998** Medical University of South Carolina, Department of Microbiology and Immunology
Tulane University, Center for Bioenvironmental Research
Louisiana State University, Department of Biochemistry
National Center for Toxicology Research, FDA
Centre Hospitalier de l'Universite de Montreal, Quebec
Oregon State University, Department of Environmental and Molecular Toxicology
- 1999** Glaxo-Wellcome, Research Triangle Park, NC
CIIT Centers for Health Research – Scientific Colloquium Invited Speaker
John H. Blaffer Lecture Series, Genes and Development Program, M.D. Anderson Cancer Center
- 2000** Mt. Sinai Medical Center, Division of Nephrology
University of Texas Health Sciences Center, MD/PhD Program Visiting Lecturer, Molecular Medicine Seminar Series
- 2001** Environmental and Occupational Health Sciences Institute, Advances in Environmental Health Seminar Series
University of Alabama
University of Michigan, Grand Rounds, Department of Obstetrics and Gynecology
Pfizer, Global Research and Development
Weill Medical College of Cornell University, Department of Pharmacology
University of Texas Medical Branch, Dept of Obstetrics and Gynecology
- 2002** Oregon Health Sciences University
Ferring Research
Glaxo-Smith Kline
- 2003** Brown University, Graduate Program Retreat
- 2003** Washington University, Siteman Cancer Center
- 2004** Shering A.G., Berlin, Germany
NYU School of Medicine, Department of Pathology
UT MD Anderson Cancer Center, Grand Rounds
GlaxoSmithKline, Urogenital Biology & Cardiovascular Disease CEDD

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Southwestern University, Biology Department

- 2005** Texas A&M University, College of Veterinary Medicine
Northwestern University, Division of Reproductive Biology
- 2006** University of Colorado School of Medicine, Department of Medicine
University of Louisville School of Medicine, Department of Biochemistry & Molecular Biology
UT MD Anderson Cancer Center, Department of Molecular and Cellular Oncology
- 2007** Mayo Clinic Cancer Center, Program in Cancer Cell Biology and Oncogenomics,
Harvard University, Department of Genetics and Complex Diseases
American Medical Systems
Bayer Schering Pharmaceutical, Germany
UT MD Anderson Cancer Center, Department of Cancer Biology
Grand Rounds, UT MD Anderson Cancer Center, "Epigenetics"
Grand Rounds, UT MD Anderson Cancer Center, "Energy, Metabolism and Cancer",
Lovelace Toxicology and Inhalation Research Institute
University of Texas Medical Branch, Comprehensive Cancer Center
University of Illinois (Champaign-Urbana), Department of Veterinary Biosciences, College
of Veterinary Medicine
Bayer Schering Pharmaceuticals
UT MD Anderson Cancer Center, Epigenetics Center of Excellence
UT MD Anderson Cancer Center, Department of Cancer Biology
- 2008** Duke University, Department of Pharmacology and Cancer Biology
University of Wisconsin, McArdle Laboratory for Cancer Research
- 2009** UT Southwestern, O'Brien Kidney Research Seminar Series
UAB Center for Clinical and Translational Science, University of Alabama at Birmingham
Oncology Grand Rounds, Georgetown University
Baylor University, Department of Molecular and Cellular Biology
UT MD Anderson Cancer Center, Department of Experimental Radiation Oncology
- 2010** Texas A&M Health Sciences Center, Institute of Biosciences and Technology
University of Kentucky, Department of Toxicology
NCI Cancer Prevention and Control Colloquium
University of California, San Francisco, Breast Oncology Program
Oregon State University, Department of Environmental and Molecular Toxicology UTMB-
UTMB, Galveston Graduate School Biomedical Research, Galveston, TX
UTHSC San Antonio, Department of Pharmacology
Society of Executive Leaders in Academic Medicine
- 2011** University of North Carolina, Lineberger Cancer Center
UT MD Anderson Cancer Center, Postdoctoral Association
UT MD Anderson Cancer Center, Department of Systems Biology
Texas Heart Institute Cardiovascular Basic Science
Baylor College of Medicine, Molecular & Cellular Biology
GlaxoSmith Kline, Oncology Translational Research
Brown University, Department of Pathology & Laboratory Medicine
- 2012** University of Houston, Center for Nuclear Receptors and Cell Signaling
University of Kansas, Department of Pathology
National Breast Cancer Coalition
John's Hopkins University, Sidney Kimmel Cancer Center
UT MD Anderson Cancer Center, Department Clinical Cancer Prevention

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- 2013** U.T. MD Anderson Cancer Center, Department of Experimental Radiation Oncology
Texas A&M College of Engineering and TAMHSC College of Medicine
- 2014** Texas A&M College of Veterinary Medicine and Biomedical Sciences
University of Southern California Free Radical Institute
Louisiana State University, Shreveport, Graduate Student Organizing Committee Invited Speaker
UTMB Sealy Center for Environmental Health and Medicine
Texas A&M, Department of Biomedical Engineering
Regents University of Georgia, Grand Rounds
- 2015** Gulf Coast Consortium, Keck Seminar Series
Baylor/MDACC Joint Symposium, Genitourinary Cancer
University of Pennsylvania Center of Excellence in Environmental Toxicology (CEET),
Perlman School of Medicine
Tulane University School of Medicine, Department of Pharmacology
University of California, Davis Comprehensive Cancer Center
BCM, Department of Molecular and Cellular Biology
Hamon Center for Therapeutic Oncology Research and Simons Cancer Center
Experimental Therapeutics Program
BCM, Duncan Cancer Center, Cancer Prevention and Population Sciences Program
UT Health Science Center, San Antonio, Department of Cellular and Structural Biology
UT MD Anderson Cancer Center, Division of Medicine, Grand Rounds
- 2016** University of Toronto, Hospital for Sick Children, Department of Biochemistry,
Toronto, Canada
New Mexico State University, Department of Chemistry and Biochemistry
Northwestern University, Department of Obstetrics and Gynecology
- 2017** University of Michigan, Symposium on "Developmental Origins of Metabolic Syndrome",
Division of Pediatric Endocrinology
Vanderbilt-Ingram Cancer Center Seminar Series, "Cytoskeletal Remodeling by the
Epigenetic Machinery"
UNC Gillings School of Global Public Health, "Developmental Reprogramming of the
Epigenome by Early Life Environmental Exposures"
Ohio State University, Comprehensive Cancer Center, The James Grand Rounds, "A New
Home for the Epigenetic Machinery: SET-ing Methyl Marks on Microtubules"
University of Washington, Environmental and Occupational Health Sciences, "A New Home
for the Epigenetic Machinery: SET-ing Methyl Marks on Microtubules"
UT Southwestern Medical Center, Department of Pharmacology, "A New Home for the
Epigenetic Machinery: SET-ing Methyl Marks on Microtubules"
- 2018** The Endocrine Society's 100th Annual Meeting and Expo, "Reprogramming of the
Epigenome by Early Life Environmental Exposures Increases Risk for Hormone-
dependent Tumors"
20th European Congress of Endocrinology, "Early-life environmental exposure and prostate
cancer risk", Barcelona, Spain
- 2019** University of North Texas, Department of Biological Sciences, "The Hidden World
of Epigenetic "Readers, Writers and Erasers": Cytoskeleton Remodeling"
University of Texas School of Public Health "Environmental Epigenomics: What the
Epigenome can Teach us about Environmental Causes of Disease" Houston, TX
University of Illinois Urbana-Champaign "Environmental Epigenomics: What the

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Epigenome can Teach us about Environmental Causes of Disease”

2020 Baylor College of Medicine, Department of Pharmacology and Chemical Biology, “The Secret Life of Chromatin Remodelers Acting on the Cytoskeleton”, Houston, TX

2021 Houston Digestive Disease Center GI research Forum Presentation “Links between the Environment, The Epigenome and NAFLD: Data from the TARGET II Consortium, Houston, TX
Invited Speaker, Annual Symposium, Dan L. Duncan Cancer Center, Houston, TX

D. Visiting Professorships and Named Lectureships:

- 1993 Visiting Professor, Hunan Medical University Cancer Institute, Peoples Republic of China
- 2006 Austin and Mary Frances Bloch Lecture, University of Louisville School of Medicine
- 2007 John Doull Toxicology Lecture, University of Kansas Medical Center
- 2008 Wogan Lecture in Toxicology, Massachusetts Institute of Technology
- 2010 Nechey Memorial Lecture, University of Texas Medical Branch-Galveston
- 2012 Benjamin Trump Memorial Lecture, Aspen Cancer Conference
- 2013 Samuel Kuna Lecture, Environmental and Occupational Health Science Institute, Rutgers University
- 2016 Joseph L. Melnick Lecture, Graduate School of Biomedical Sciences, Baylor College of Medicine
- 2018 Benjamin Trump Memorial Lecture, Aspen Cancer Conference
- 2019 42nd Schueler Distinguished Lectureship in Pharmacology, Tulane University
- 2019 Wylie Vale Jr. Memorial Lecture, Baylor College of Medicine
- 2019 Nechey Memorial Lecture, University of Texas Medical Branch-Galveston

IV. MEDICAL AND SERVICE INFORMATION

A. Patient Care Responsibilities

N/A

B. Clinical Laboratory Responsibilities

N/A

C. National Education or Voluntary Health Organization Participation

1. Committee Memberships/Advisory Appointments (Current)

- 2012-present Board of Directors, Aspen Cancer Conference
- 2015-present Member, External Advisory Board, UC Davis Environmental Health Sciences Core Center, University of California-Davis
- 2018-present Member, External Advisory Board, Chicago Area Center for Health and the Environment (CACHET), University of Chicago and University of Illinois-Chicago
- 2019-present Member, External Advisory Board, Rutgers Environmental and Occupational Health Sciences Institute (EOHSI)
- 2019-present Member, Department of Defense Congressionally Directed Medical Research Program Kidney Cancer Research Program (KCRP) Programmatic Panel
- 2020-present Member, Texas Academy of Medicine, Engineering, Science, and Technology (TAMEST) Executive Committee; Treasurer-elect

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2020-present Member, External Advisory Committee, UCSF Environmental Research and Translation for Health (EARTH) Center

2. Committee Memberships/Advisory Appointments (Previous)

1993, 1994 Member, Board Directors, National Institute for the Advancement of In Vitro Sciences

1994 Member, FDA/NIEHS/DOE/NIOSH Gene Transcription Protocol Workshop

1995 Member, Ad hoc Working group, National Toxicology Program, NTP Board of Scientific Counselors, Biennial Report on Carcinogenesis

1996 Member, Sandoz Oncology Research Program, "In vivo Tumor Biology Workshop"

1996 Opinion Leader, Eli Lilly Roundtable, Society for Gynecologic Investigation

1997 Member, NCI Site Visit Team, Laboratory of Comparative Carcinogenesis

1997 Member, Alternative Model Validation Panel, TAP Pharmaceuticals

1997 Invited Participant, Toxicology Discussion Group Workshop, Stratagene

1998 Ad Hoc Member, NCI Program Project Grant Site Visit Team, Jackson Laboratories

1998 Invited Participant and Breakout Group Chair, NIEHS Workshop "Characterizing the Effects of Endocrine Disruptors on Human Health at Environmental Exposure Levels"

1998 Member, NHLBI Rat Repository Workshop, NIH Rat Genome Project

1998 Member, NIDDK Strategic Planning Committee for Renal Research

1999 Member, Halogenated Solvents Industry Association Workshop on Renal Toxicity and Carcinogenicity

1999 Invited Participant, Rat Model Priority Setting Workshop, NIH

1999 Invited Expert, BK-Tox Advisory Committee on Dangerous Substances, Labor Ministry, Germany

1999 Invited Participant, NIEHS Workshop on Partnership in the Development of Surrogate Biomarkers for Drug Safety and Chemical Risk Assessment, RTP

1999-2000 Member, WHO Working Group on Public Health and Clinical Significance of Premalignant Lesions in the Genitourinary Tract

2000 External Advisor, Laboratory for Comparative Carcinogenesis, NCI, NIH

2000 External Advisory Committee, Xavier/Tulane Advanced Research Cooperation in Environmental Health (ARCH) Center

2000, 2001 Invited Participant, NIEHS Leadership Retreat, (2000); Winston-Salem (2001)

2000-2001 Scientific Advisory Committee, Lymphangiomyomatosis (LAM) Foundation

2002 Invited Participant, Toxicogenomics Workshop, NCTR, FDA

2002 Member, Stulberg and Schoenfeld Award Advisory Panels, Kidney Cancer Association

2002 Invited Participant, NIEHS Brainstorming Session on Gene/Environment Interactions and Human Health

2003 Chair, Site-visit Team, Laboratory of Cell Biology, NCI

2001-2004 External Advisory Board, NIEHS Center for Rural and Environmental Health (CREH), Texas A&M University

1999-2004 Member, (Chair, 2001-2004) US - Japan Panel on Environmental Genomics and Carcinogenesis, US Japan Cooperative Medical Exchange Program, US Department of Health and Human Services

2003-2004 Member, National Research Council Committee on How Toxicogenomics Can Inform Critical Issues in Carcinogenic Risk Assessment of Environmental Chemicals

2005 Member, NIEHS Strategic Planning Committee

2002-2005 Board of Scientific Councilors, National Toxicology Program, National Institute of Environmental Health Sciences, NIH

2001-2006 Board of Scientific Councilors, National Cancer Institute, NIH

2002-2006 Member, National Academy of Sciences Committee on Emerging Issues and Data on Environmental Contaminants

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2006-2018 External Advisory Board, NIEHS Environmental and Occupational Health Sciences Center, University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School

2003-2007 External Advisory Board, NIH Rat Research and Resource Center, Univ of Missouri

2005-2006 Member, National Research Council Committee on Applications of Genomic Signatures

2008-2018 Member, External Scientific Advisory Board of NIEHS Sealy Center for Environmental Health and Medicine

2007-2008 Member, Search Committee, NIEHS Director of Extramural Research, NIEHS, NIH

2008 External Reviewer, Curriculum on Toxicology Graduate Training Program, University of North Carolina

1994-2010 External Advisory Board, NIEHS Center for Environmental Genetics, University of Cincinnati

2005-2011 External Advisory Board, NIEHS Center for Health and the Environment, University of Louisville

2010-2012 Committee on Breast Cancer and the Environment, Institute of Medicine, National Academies of Science

2010-2012 External Advisory Board, Center for Nuclear Receptors and Cell Signaling, University of Houston

2012 Member, Center for Scientific Review, Environmental Health & Toxicology Working Group

2007-2012 Member, External Advisory Board, PO1 "Pathogenesis of Hamartoma Syndromes", Harvard University

2010-2012 Interagency Coordinating Committee on Breast Cancer and the Environment Member, (ICCBCE), National Institutes of Health, Department of Health and Human Services

2010-2013 Member, External Advisory Board, Cancer Chemoprevention PO1, Linus Pauling Institute

2012-2014 Member, External Advisory Board, Medical College of Wisconsin Cancer Center

2015 Member, External Review Committee on Life Sciences, Harvard T.H. Chan School of Public Health

2012-2015 Food Safety Council, ConAgra

2006-2015 Member, Scientific Advisory Board, The LAM Foundation

2012-2015 Member, Standing Committee on Emerging Science for Environmental Health Decisions, NAS/National Research Council

2004-2015 Tuberous Sclerosis Alliance International Scientific Advisory Board (Chair, 2005-2008)

2017 Member, Search Committee, NIEHS Associate Director and Scientific Director of National Toxicology Program, NIEHS, NIH

2015-2016 Member, Texas OneGulf Network of Experts

2016-2018 Member, Tuberous Sclerosis Complex Research Program (TSCR) Programmatic Review Panel, Congressionally Directed Medical Research Program (CDMRP), Department of Defense

2012-2018 Member, Board of Scientific Advisors, National Cancer Institute, National Institute of Health

2016-2019 Member, National Academy of Sciences, Gulf War and Health, Volume 11: Generational Health Effects of Serving in the Gulf War

2019 Invited Participant, NCI Ideas Workshop (Provocative Questions), Division of Basic Sciences, NCI

2016-2019 Member, External Advisory Board for NIEHS P30 HERCULES: Exposome Research Center, Emory University

2014-2019 Member, Research Council, VHL Alliance

2019 Member, NIEHS Director Search Committee

2019-2021 Member, External Scientific Advisory Board, University of New Mexico Comprehensive Cancer Center

3. Organization of National or International Conferences/Symposia

1990	Symposium Organizer and Chair, "Genetic Determinants of Susceptibility in Rodents and Man", SOT Annual Meeting
1991	Chair, "Cell Transformation", Minisymposia, AACR Annual Meeting
1991-1998	Organizing Committee, International Conference on Carcinogenesis and Risk Assessment
1994	Chair, "Genetics and Susceptibility: Impact on Risk Assessment", 8th International Conference on Carcinogenesis and Risk Assessment
1995	Member, "Program Committee, Genetic Mechanisms of Cancer", 48th Annual Symposium on Fundamental Cancer Research
1995	Chair, "New Tumor Suppressor Genes", Minisymposium, AACR Annual Meeting
1995-1996	Organizing Committee, "cancer Susceptibility and Molecular Carcinogenesis", AACR Special Conference
1998	Chair, "Mechanisms of Toxicity", Gordon Conference
1999	Chair, "Women's Health and the Environment: Advances in Uterine Leiomyoma Research" Conference
1999-2000	Co-Chair, "Current Concepts in Toxicology: Mechanisms of Nephrotoxicity and Nephrocarcinogenicity" Conference
2001	Conference Organizer, Lymphangioliomyomatosis Foundation LAMposium 2001 (Co-organizer and Chair, Basic Science Conference)
2004	Member, Organizing Committee, "Signal Transduction from Pathways to Networks", UT MD Anderson Symposium
2005	Co-Chair, Hormone Action in Development and Cancer Gordon Conference
2006	Chair, "Early Life Exposure Workshop", National Academy of Sciences, Committee on Emerging Issues and Data on Environmental Contaminants
2006	Chair, "Polycystic Kidney Disease and Tuberous Sclerosis Complex: Building Bridges to the Future", PKD Foundation and TS Alliance Workshop
2007	Chair (Basic Research) "From Genes to New Therapeutics", International Tuberous Sclerosis Complex Conference
2007	Chair (Basic Research) Lymphangioliomyomatosis International Conference
2007	Member, Organizing Committee, "Personalized Risk Assessment and Management", UT MD Anderson 60 th Annual Symposium on Cancer Research
2008-2009	Member, Organizing Committee, "Cellular Energy, Metabolism and Cancer", UT MD Anderson Annual Symposium on Cancer Research
2000-present	Organizing Committee, Aspen Cancer Conference
2011	Chair, First Annual Kidney Cancer Collaborative Symposium, UT MD Anderson Cancer Center
2012	Chair, Second Annual Kidney Cancer Collaborative Symposium, UT MD Anderson Cancer Center
2012	Chair, Emerging Science for Environmental Health Decisions -2013 Workshop, National Academy of Sciences
2012	Member, Organizing Committee, AACR International Conference on Frontiers in Prevention Research
2013	Chair, Third Annual Kidney Cancer Collaborative Symposium, UT MD Anderson Cancer Center
2014	Organizing Committee AACR International Conference on Frontiers in Cancer Prevention Research
2014	Organizing Committee, "Environmental Stressors in Disease and Implications for Human Health", Prenatal Programming and Toxicity (PPTOX IV)
2016	Organizing Committee, "Toxicoepigenomics", SOT Contemporary Concepts in Toxicology
2016	Chair, Emerging Science for Environmental Health Decisions – 2016 Workshop

3. Session Chairmanships:

- 1991 Session Organizer and Chair, "Oncogenes and Genotoxicity", SOT Annual Meeting
- 1991 Session-in-depth Organizer and Chair, "Oncogenes and Tumor Suppressor Genes", Tissue Culture Association Annual Meeting
- 1993 Chair, "Genetic Determinants of Carcinogen Susceptibility" American Association for Cancer
- 1993 Chair, Research Annual Meeting Poster Discussion Session, "Oncogenes and Tumor Genes", Society of Toxicology Annual Meeting
- 1994 Session Organizer and Chair, "Oncogenes and Tumor Suppressor Genes", American Society for Investigative Pathology Annual Meeting
- 1995 Session Organizer and Chair, "Interspecies Toxicology: Molecular Basis of Differential Response", SOT Annual Meeting
- 1995 Session Organizer, "Genetic Determinants of Susceptibility to Cell Transformation", Gordon Conference Mechanisms of Toxicity
- 2000 Chair, "Genetic Susceptibility" session, Gordon Conference "Mechanisms of Toxicity"
- 2003 Organizer and Co-chair, "Toxicogenomics" session, Annual Meeting American Association for the Advancement of Science
- 2004 Chair, "Chromatin Structure and Remodeling" session Gordon Conference "Mechanisms of Toxicity"
- 2005 Session Chair, Cold Spring Harbor Conference on Rat Genomics "Cancer and Neoplasia"
- 2007 Chair, Carcinogenesis Mini-Symposium, AACR Annual Meeting
- 2009 Session Chair, International Tuberous Sclerosis Conference, "From DNA to Human Therapies"
- 2010 Chair, Stem Cell Session, Aspen Cancer Conference
- 2011 Chair, Bioenergetics and Epigenetics, First Annual Kidney Cancer Collaborative Symposium
- 2012 Chair, Epigenetics Session, Aspen Cancer Conference
- 2012 Chair, VHL and the Cilia, 10th International VHL Medical Conference
- 2012 Session Chair, Prenatal Programming and Toxicity (PPTOX) III: Environmental Stressors in the Development Origins of Disease (Paris, France)
- 2012 Session Chair, Annual meeting of the Endocrine Society, "Endocrine Signaling Interrupted"
- 2012 Chair, 11th Annual AACR International Conference on Frontiers in Cancer Prevention Research "Prevention across the Lifecourse" Plenary Session (Anaheim, CA)
- 2013 Chair, AACR Symposium: Current Concepts in Organ Site Research, Annual Meeting
- 2013 Chair, "Steroids and Cancer" session, Rapid Responses to Steroid Hormones Conference (Erie, PA)
- 2014 Chair, "Epigenomic and Epigenetic Targets for Cancer Prevention" session, AACR International Conference on Frontiers in Cancer Prevention Research
- 2015 Chair, "Epigenetic Mechanisms in Cancer Risk" session, 2015 AACR Annual Meeting

4. Other, Including Scientific Exhibitions:

- 2003 Congressional Briefing "Breast Cancer and the Environment"
- 2004 Panel Moderator, Tuberous Sclerosis Alliance Advisory Group Meeting
- 2005 "Gene-Environment Interactions," Scientific Faculty AACR Scientist Survivor Workshop
- 2007 Press Briefing, 2007 Annual Meeting Endocrine Society "Endocrine Disruptors in the Environment" (Toronto, Canada)
- 2008 Participant, LAM/TSC Hormone Summit, Harvard University

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- 2008 Invited Speaker, UT MD Anderson Cancer Center DNA repair Mini-Symposium, "ATM Engages the mTOR Signaling Pathway via Activation of TSC2"
- 2008 Participant, LAM Cell Isolation and Culture Summit, Harvard University
- 2008 Participant, Animal Models Summit, LAM Treatment Alliance
- 2008 Invited Speaker, 22nd Annual Therapeutic Options for Menopausal Health Meeting, "Epigenetic Alterations and Chromatin Remodeling Induced by Estrogens"
- 2009 Invited Speaker, Cancer Epigenetics Workshop, "Developmental Reprogramming of Tumor Suppressor Gene Penetrance"
- 2009 Invited Speaker, MD Anderson Symposium on Energy, Metabolism, and Cancer, "Engagement of the LKB1/AMPK Signaling Pathway by ATM to Regulate mTOR and Autophagy"
- 2009 Grand Rounds, UT MD Anderson Cancer Center "Early Events in Kidney Cancer: Loss of Primary Cilia as an Initiating Event in RCC"
- 2010 Invited Speaker, Autophagy: Across Medicine and Biology UTHSC-Houston Symposium, "ATM/TSC2 Regulation of Autophagy and Metabolism"
- 2010 Invited Speaker, National Kidney Cancer Association Patient Conference, "Advances in Kidney Cancer Research"
- 2010 Invited Speaker, Society for Executive Leaders in Academic Medicine (SELAM), "Why become a Scientific Society President"
- 2010 Invited Speaker, Baylor College of Medicine Symposium on Pediatric Epidemiology "Epigenetic Reprogramming of the Genome to Change Cancer Risk"
- 2010 Invited Speaker, NCI Cancer Prevention Fellows Program, "Early Life Exposures and Adult Disease: How Environmental Estrogens Epigenetically Reprogram Developing Tissues"
- 2010 Invited Presenter, MD Anderson "Morning of Science" for Board of Visitors
- 2010 Participant, Grand Rounds, UT MD Anderson Cancer Center "ATM Signaling in the Cytoplasm: The Secret Life of a DNA Repair Protein"
- 2012 Breakout Group Leader, Cancer Research Colloquium "An Overview of Cancer Research at Texas A&M"
- 2013 Participant, Congressional Briefing, "Women's Health and the Environment"
- 2013 External Referee, Promotion and Tenure Committee, Harvard School of Public Health (Cambridge, MA)
- 2013 Participant, AACR "Chromatin and Epigenetics in Cancer"
- 2014 Participant and Breakout Session Leader, NIH TSC workshop, "Unlocking Treatments for TSC: 2015 Strategic Plan"
- Participant, LAM Biomarker Summit,
- 2015 Invited Speaker, NIEHS Epigenetics Workshop "Basic Principles of Epigenetics"
- Invited Speaker, NIEHS Epigenetics Mini-Symposium "Epigenetic Targets for Developmental (re)Programming by Xenoestrogens"
- 2015 Invited Speaker, Research Funding Luncheon, NIH Grantsmanship Workshop, SOT Annual Meeting
- 2015 Invited Speaker, Houston Rotary Club
- 2016 Invited Speaker, FDA Minisymposium on Epigenetics
- 2019 Invited Speaker, Baylor College of Medicine President's Circle
- 2018 Participant, NIH Center for Scientific Review Anonymization Project
- 2021 Invited Presentation to the NIEHS Council "Perspectives on Precision Environmental Health"

D. Administrative Assignments

1. Department Administration, Committee etc. (UT MD Anderson Cancer Center)

- 1992-1996 Chair, Science Park, Animal Resources and Facilities Advisory Committee
- 1993 Member, Strategic Planning Committee
- 1993-1994 Member, Faculty Search Committee
- 1994 Member, Space Allocation Committee

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1994-2011 Member, Science Park Graduate Studies Committee, Department of Carcinogenesis
1999-2000 Chair, Faculty Search Committee, Department of Carcinogenesis
2000-2001 Member, Faculty Search Committee, Department of Carcinogenesis
2001-2002 Member, Faculty Search Committee, Department of Carcinogenesis
2008 Chair, Faculty Search Committee, Department of Carcinogenesis
2009-2011 Appointed, Faculty Search Committee, Department of Carcinogenesis
2012-2016 Member, GU Steering Committee

2. Institutional (College/University level) Committees and Activities (MD Anderson Cancer Center)

1992-1996 Representative, M.D. Anderson, Institutional Animal Care and Use Committee
1994-1997 Appointed, UT MD Anderson, Institutional Research Support Committee
1997-2000 Elected, Faculty Senate 1998-2000
2000 Member, M.D. Anderson Advisory and Recruitment Committee to Define the Tumor Institute
1999 Member, Search Committee, Associate Vice-President for Faculty Affairs
2000-2002 Elected, Steering Committee, Prog in Environmental and Molecular Carcinogenesis, GSBS
2003-2004 Member, MD Anderson Basic Research Conference Program Committee
2002-2005 Member, UT MD Anderson Promotion and Tenure Committee
2004-2009 Member, Internal Advisory Board, UT MD Anderson Chromatin and Cancer Multidisciplinary Research Program
2004-2008 Member, (Chair, 2005-2008), UT MD Anderson Endowed Positions Committee
2007-2011 Member, Executive Committee, Center of Excellence for Epigenetic Research
2007-2011 Member, Internal Advisory Committee, U54 "Partnership for Excellence in Cancer Research" The University of Texas M.D. Anderson Cancer Center and The University of Puerto Rico Comprehensive Cancer Center (UPRCC)
2007-2011 Co-Director, CCSG Program in Carcinogenesis
2007-2011 Co-Director, Center for Environ. and Mol. Carcinogenesis, Institute for Basic Science.
2009-2011 Member, Center for Cancer Epigenetics
2009-2011 Member, Internal Advisory Committee, Women Faculty Programs
2010-2011 Member, Institutional Nominating Committee for External Awards and Honors
2011 Member, Faculty Awards Selection Committee
2009-2019 Member, UT MD Anderson Margaret L. Kripke Award Selection Committee

(Texas A&M University)

2011-2016 Director, Institute of Biosciences and Technology, Texas A&M Health Science Center, Texas A&M University
2014-2015 Member, Search Committee, Dean, School of Public Health
2014-2015 Member, Space Taskforce, Texas A&M Health Science Center
2015 Member, Team Science Taskforce, Texas A&M Health Science Center
2015 Member, Institutional Recognition Taskforce, Texas A&M Health Science Center
2015-2016 Associate Dean for Research, College of Medicine, Texas A&M Health Science Center

(Baylor College of Medicine)

2018-present Member, Faculty Appointments and Promotion (FAP) Committee
2018-present Member, Advanced technology Core (ATC) Program Oversight Committee
2018-2019 Co-Chair, Strategic Planning Workgroup for Precision Medicine; Member, Strategic Advisory Council for Baylor College of Medicine 2020 Strategic Plan
2018-2019 Member, Search Committee, Chair Department of Molecular and Cell Biology
2019-present Member, Dan L Duncan Comprehensive Cancer Center Executive Committee

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2019-2021 Chair, Faculty External Recognition Committee
2020 Member, Therapeutic Innovations Center (THIC) Recruitment Committee
2020 Co-Chair, Search Committee for the Director of the Dan L. Duncan
Comprehensive Cancer Center
2021-present Member, Medical Scientist Training Program (MSTP) Faculty Operating
Committee

F. Other Pertinent Information Not Given Above

1. Consultantships:

1992 Molecular Biology Program, Monsanto Agricultural Company
1993-1994 Faculty Advisor, Foundation for American Communications
2002 Consultant, Lockheed-Martin
2005 Consultant, Abbott Pharmaceuticals
2005-2008 Schering A.G. (now Bayer Schering Pharma A.G.)
2003-2010 Dermigen
2007-2010 American Medical Systems (AMS)
2009-2011 Endo Pharmaceuticals
2013-2015 ConAgra
2016 Merck

2. Patents Granted and Pending:

Serial No. 62/135,953 "Antibodies specific to trimethylated-tubulin and uses thereof"