

**FACULTY CURRICULUM VITAE
UNIVERSITY OF ALABAMA AT
BIRMINGHAM SCHOOL OF MEDICINE**

Date: June 14, 2017

GENE PHILIP SIEGAL

Born: - Bronx, NY

Married - Sandra H. Siegal, B.S., M.S.

Two Adult Daughters - Gail and Rebecca

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CITIZENSHIP: United States of America

EDUCATION

<u>Degree</u>	<u>Major</u>	<u>Institution</u>	<u>Dates of Attendance</u>
----	Academic Regents Diploma	Plainview High School Plainview, NY	9/63 - 6/66
B.A.	Biology	Adelphi University Garden City, NY	9/66 - 6/70
M.D.	----	University of Louisville School of Medicine Louisville, KY	9/70 - 5/74
Ph.D.	Experimental Pathology	University of Minnesota Minneapolis, MN	7/75 - 9/79
Certificate in Hospital Management	Management Institute	Univ. of North Carolina Kenan-Flagler Sch. of Bus. Admin. Chapel Hill, NC	8/88 - 11/88
Certificate	UAB Health Care Leadership Institute	Univ. of AL at Birmingham School of Health Rel. Prof. & School of Business Admin.	9/99 - 1/00

EXPERIENCE AND TRAINING

Extern in Pediatrics	Long Island Jewish-North Shore University Health System (A. Einstein College of Medicine)	Summer, 1972
Senior Medical School Tutorials	University of Louisville Department of Pathology	Fall/Winter, 1973
	Anatomic Pathology (W.M. Christopherson), Electron Microscopy (G.R. Schrodt), Pediatric Pathology (D.R. Kmetz)	
Intern in Pathology	Mayo Graduate School of Medicine Mayo Clinic College of Medicine Mayo Clinic/Foundation	7/74 - 6/75
Resident in Pathology	Mayo Graduate School of Medicine Mayo Clinic College of Medicine	7/75 - 6/76

Research Fellow in Pathology	Mayo College of Medicine/Foundation (Laboratories of H.L. Moses [Natl. Acad. Of Medicine] and M.J. Getz)	7/76 - 6/77
Senior Resident in Pathology	Mayo Graduate School of Medicine	7/77 - 8/78
Senior (Chief) Resident in Pathology	Department of Anatomic Pathology Mayo Clinic College of Medicine (K.E. Holley, Chairman)	9/78 - 9/79
Research Associate	Laboratory of Pathophysiology, National Cancer Institute, NIH (Laboratories of S.L. Berger and L.A. Liotta)	10/79 - 9/81
Medical Specialist-Fellow in Surgical Pathology	Division of Surgical Pathology Department of Lab Medicine & Pathology, University of Minnesota Medical School (Juan Rosai & Louis P. Dehner, Co-Chiefs)	7/81 - 6/82

ACADEMIC TITLES

Instructor of Pathology	Mayo Medical School	1976 - 1979
Assistant Professor of Pathology	Univ. of North Carolina at Chapel Hill, School of Medicine and the Graduate School	1982 - 1988
Member - Lineberger Comprehensive Cancer Center	University of North Carolina at Chapel Hill	1983 - 1990
Associate Professor of Pathology	University of North Carolina at Chapel Hill, School of Medicine and the Graduate School	1988 - 1990
Professor of Pathology	University of Alabama at Birmingham Schools of the Joint Health Sciences, Medicine and the Graduate School	1990 - 2008
Senior Scientist	UAB Comprehensive Cancer Center University of Alabama at Birmingham	1990 - Present
Professor of Cell Biology [Dept of Cell, Developmental, & Integrative Biology]	University of Alabama at Birmingham School of Joint Health Sciences	1991 - Present
Professor of Surgery	University of Alabama at Birmingham School of Medicine	1991 - Present
Group Leader	Developmental Program in Breast, Ovary and Prostate, UAB Comp. Cancer Center	1993 - 1999

ACADEMIC TITLES, continued

Participating Professor in Grad. Training Program	University of Alabama at Birmingham Department of Pharmacology and Toxicology	1994 - 2006
Senior Scientist	Comprehensive Center for Healthy Aging University of Alabama at Birmingham	1995 - Present
Senior Scientist (Founding Member)	Cell Adhesion and Matrix Research Center University of Alabama at Birmingham	1995 - 2006
Senior Scientist (Founding Member)	Center for Metabolic Bone Disease University of Alabama at Birmingham	1997 - 2013
Senior Scientist (Founding Member)	Gene Therapy Center University of Alabama at Birmingham	2000 - 2012
Senior Scientist (Founding Member)	BioMatrix Engineering and Regenerative Medicine [BERM] Center University of Alabama at Birmingham	2006 - Present
Senior Scientist	Nephrology Research and Training Center University of Alabama at Birmingham	2008 - Present
Senior Scientist	Center for Biophysical Sciences & Engineering University of Alabama at Birmingham	2008 - Present
Inagural Robert W. Mowry Endowed Professor of Pathology	University of Alabama at Birmingham Schools of the Joint Health Sciences, Medicine and the Graduate School	2008 - Present
CCTS Scholar	UAB Center for Clinical and Translational Science [CTSA] University of Alabama at Birmingham	2009 - Present
Senior Scientist (Founding Member)	Comprehensive Arthritis, Musculoskeletal, Bone and Autoimmunity Center University of Alabama at Birmingham	2014 - Present
Interim Chairman	Department of Pathology University of Alabama at Birmingham	2015 – 2016

HOSPITAL AFFILIATION

Attending Pathologist	University of North Carolina Hospitals	1982 - 1990
Attending Pathologist	University of Alabama Hospital	1990 - Present
Staff Pathologist	Birmingham Veterans' Affairs Med. Ctr.	1990 – 2010
Attending Pathologist	UAB Highlands Hospital	2006 - Present
Attending Pathologist	Montgomery Baptist Health Care System	2014 – Present
Attending Pathologist	Anniston Regional Medical Center	2015 – Present
Interim Pathologist-in-Chief	UAB Medicine	2015 – 2016

ACADEMIC HONORS

Florence Liberman Memorial Scholar	1966
Alpha Epsilon Delta, the International Premedical Honor Society	1968

ACADEMIC HONORS, continued

Beta Beta Beta, The National Biology Honor Society	1968
Who's Who Among Students in American Colleges & Universities	1969 - 1970
Omicron Delta Kappa, the National Leadership Honor Society	1974
Sigma Xi, The Scientific Research Society of North America	1976
Clinical Fellow of the American Cancer Society	1981 - 1982
Junior Faculty Fellow of the American Cancer Society	1983 - 1986
International Business Machines Corporation Junior Faculty Development Awardee	1985 - 1986
Jefferson-Pilot Fellow in Academic Medicine	1986 - 1990
Order of the Grail - Valkyries (UNC Honorary)	1990
Fellow of the Royal Society of Medicine, London	1992
Phi Beta Delta, Honor Society for International Scholars	1993
International Skeletal Society	1994
Alpha Omega Alpha, the Medical Honor Society	1996
Farrell Prize, International Skeletal Society [Shared with M.J. Pitt]	2001
Citation Classic (Ref #18) Barsky S. et al. <i>Lab Invest</i> 49:140, 1983	2003
The Griffin Society [UAB Scientific Society]	2009
Miembro Honorario, Asociacion Venezolana para el Estudio de Tumors Musculo-Esqueleticos (AVETME)	2013
Albert Nelson Marquis Lifetime Achievement Award	2017
A.S.I.P. Robbins Distinguished Educator Award	2015
C.A.P. Lifetime Achievement Award	2017

ACADEMIC HONORS - NAMED LECTURSHIPS

3 rd Walter R. Benson Lecturer -University of North Carolina	2003
1 st Carter/Makley Lecturer -Case Western Reserve Univ., Institute of Pathology	2003
Milton S. Hales Lecturer - West Virginia University	2003
Arthur Purdy Stout Lecturer - A.S.C.P. Annual Meeting	2009
Emma Sadler Moss Lecturer - Louisiana State University (LSU)	2012
Vernie A. Stembridge Lecturer – 95 th Ann. Meeting, Texas Soc. Of Pathologists	2016

EDITORSHIPS

Associate Editor - Archives of Pathology and Laboratory Medicine	1989 - 1990
Senior Associate Editor - The American Journal of Pathology	2003 - 2008
Section Editor, Bone and Soft Tissue Pathology - Archives of Pathology and Laboratory Medicine	2006 - Present
Editor-in-Chief, Laboratory Investigation	2008 - Present
Executive Editor, Journal of Cytology & Histology	2012 - Present

EDITORIAL BOARDS

Minnesota Medicine	1979 - 1982
Yearbook of Pathology	1983 - 1991
Bulletin of Laboratory Medicine	1987 - 1990
Archives of Pathology and Laboratory Medicine	1990 - 1991
MLO (Medical Laboratory Observer) - Professional Advisory Panel	1989 - 1992
American Journal of Clinical Pathology	1990 - Present
Modern Pathology	1996 - Present
Advances in Anatomic Pathology	1999 - Present
American Journal of Surgical Pathology	2000 - Present
Annals of Diagnostic Pathology	2003 - 2006
Skeletal Radiology	2003 - Present
Laboratory Investigation	2004 - 2008

EDITORIAL BOARDS, continued

Journal of Molecular Medicine	2004 - Present
CAP Today	2005 - 2013
Human Pathology	2005 - Present
Frontiers in Bioscience	2006 - Present
The American Journal of Pathology	2008 - Present
The Open Breast Cancer Journal	2009 - Present
American Journal of Translational Research	2009 - Present
Musculoskeletal and Spinal Diseases	2009 - Present
Cancer Growth and Metastasis	2009 - 2017
Clinical Medicine: Pathology	2009 - 2017
Journal of Cytology & Histology	2010 - 2012
Encyclopedia of Pathology and Human Disease	2011 - Present
The Scientific World Journal	2011 - 2017
The Open Journal of Pathology	2011 - Present
Frontiers in Pediatric Oncology	2011 - Present
Pathology Discovery Journal	2013 - 2016

ADDITIONAL MANUSCRIPT REVIEW FOR:

Acta Biomaterialia	International J Med & Pharm Case Reports
African Journal of Biotechnology	International Journal of Medical Sciences
African Journal of Microbiology Research	International Journal of Molecular Sciences
BBA – Molecular Basis of Disease	International Journal of Surgical Pathology
Biotechnology Journal	Journal of the American Medical Association
BMC Biotechnology	Journal of Clinical Investigation
BMC Cancer	Journal of Gene Medicine
Bone	Journal of Histochemistry/Cytochemistry
Cancer Biology and Therapy	Journal of the National Cancer Institute
Cancer Discovery	Journal of Oral Pathology and Medicine
Cancer Research	Journal of Pathology
Carcinogenesis	Journal of Signal Transduction
Case Reports in Medicine	LabMedicine
Case Reports in Orthopedics	Molecular Cancer
Clinical and Experimental Metastasis	Nature Materials
Clinical Orthopedics and Related Research	Oncogene
Diagnostic Cytopathology	Pathology Discovery Experimental Cell
Research	Pathology Research and Practice
Gastroenterology	Pediatric and Developmental Pathology
Genes, Chromosomes & Cancer	Pediatric Pathology & Molecular Medicine
Head and Neck	PloS One
Invasion and Metastasis	Proceedings National Academy Sci, USA
International Journal of Cancer	The Scientific World Journal

PRIMARY RESEARCH INTERESTS

Biomarkers of Solid Tumors
 Experimental Tumor Invasion & Metastasis

PRIMARY CLINICAL INTEREST

Neoplasms of Bone and Related
 Conditions

CONSULTATION AND ADVISORY BOARDS

Pathology Working Group, NIEHS, NIH, Research Triangle Park, NC (Bromodichloromethane in Rodents) NTP TR 321	1985
EPA, Biochemical Markers in Epidemiologic Research, B. Hulka - Principal Investigator	1986 - 1990
Children's Cancer Study Group Member, Pathology Committee	1987 - 1990

CONSULTATION AND ADVISORY BOARDS, continued

Member, CCG-762 Committee - Phase II, Pilot Protocol for Newly Diagnosed, Metastatic, Unresectable Osteogenic Sarcoma	1987 - 1988
Member, CCG-7004 Committee - Osteosarcoma: Ifosfamide, Adriamycin and Cis-CarboPlatin	1990
Member, CCG-7006 Committee - Osteosarcoma: Phase III, Evaluation of the Role of High Dose Methotrexate in Combination Chemotherapy	1990
Member, Sigma Xi Triangle Area Executive Committee	1989
Member, CALGB Pathology Committee	1991 - 1993
Member, Pediatric Oncology Group	1990 - 2000
Chair, Osteosarcoma Pathology Committee	
Member, POG 9351/CCG 7921 Committee - Trial of duxorubicin, cisplatin, and methotrexate with and without ifosfamide, with and without muramyl tripeptide phosphatidyl ethanolamine (MTP-PE) for treatment of osteogenic sarcoma	1993 - 1999
Member, POG 9259 Committee - Carboplatin, the treatment of newly-diagnosed metastatic osteosarcoma or unresectable osteosarcoma	1992 - 1998
Member, POG 9450 Committee - Etoposide/Ifosamide + G-CSF in the tx of newly diagnosed metastatic osteosarcoma or unresectable OS	1994 -1999
Consultant, Diversified Scientific Inc., Birmingham, AL	
NIH SBIR R43 CA71285, Conformationally restrained anti-metastatic dipeptides	1996 - 1997
NASA SBIR Phases I & II, Novel Biomatrix System for human tissue growth and angiogenesis in microgravity	2001 - 2003
NIH SBIR N43-CM-37125, New In Vitro Human Tumor-Endothelial Bioassay System	2003 - 2003
NIH SBIR N43-CM-37016, New In Vitro-Human Tumor Endothelial Bioassay System	2003 - 2004
NIH R43 CA086167 Design and Discovery of Novel Antimetastatic MMP Inhibitors	2003 - 2005
Consultant, Chiron Corp., Emeryville, CA	1999 - 2000
Growth factor modulation of osteoporosis clinical trial review	
Member, Advisory Board, NCI Cooperative Human Tissue Network, Southern Division	2000 - Present
Member, Children's Oncology Group	2000 - Present
Member, COG P9852 Committee - Intergroup phase II study of Trastuzumab (Herceptin) in metastatic osteosarcoma patients with tumors that overexpress HER2"	2001 - 2007
Member, COG AOST0121 Committee - Intergroup metastatic osteosarcoma	2001 - 2007
Member, COG AEWS07B1 Committee - A COG study for collecting & banking Ewing's Sarcoma specimens	2007 - Present
Member, Scientific Advisory Board, Alabama Tissue Center, Regeneration Technologies, Inc.,	2002 - 2006
Member, Council of Healthcare Advisors, Gerson Lehrman Group, NY	2003 - 2005
Consultant, Clinical Advisory Board, Enzon Pharmaceuticals, Inc.	2003 - 2004
Consultant, MEDACorp, Boston, MA 02110	2003 - 2008
Consultant, Wyeth Pharmaceuticals Inc., Collegeville, PA	2005 - 2005
Reviewer, Contentconnections.com [Lippincott Williams & Wilkins]	2005 - 2008
Consultant, Vivo Biosciences Inc., Birmingham, AL	2005 - 2008
NIH HHSN2-61200566001C [SBIR Phase II], New In Vitro Human Tumor-Endothelial Bioassay Systems	
Pathology Peer Reviewer, American Medical Foundation	2005 - 2007
The Science Advisory Board	2006 - 2011

CONSULTATION AND ADVISORY BOARDS, continued

Jefferson County Medical Society Representative, Jefferson County Coroner's Commission	2014 – Present
Member, Advisory Committee, Annual Princeton Integrated Pathology Symposium (PIPS)	2014 – Present
Member, Internal Advisory Committee, Morehouse School of Medicine/Tuskegee University/UAB CCC Partnership	2015 – Present
Consultant, bioMérieux mock FDA microbiology devices panel	2016 - 2016

STUDY SECTION ASSIGNMENTS

Member, Site Visit Committee, Cancer Center Program, NCI, NIH	1988
Ad Hoc Reviewer, North Carolina Innovative Research Fund Proposal Review Board	1988
Ad Hoc Member, AIDS and Related Research Review Group, NIH	1989
Member, Special Study Section Z, Multidisciplinary Special Emphasis Panel, DRG, NIH	1992 - 1996
Member, Cell & Tissue Biology (CTB 1-A), USAMRMC Breast Cancer Research Program	1994
Ad Hoc Reviewer, Urology, VA Merit Board Review Panel	1995
Member, Pathobiology-5, USAMRMC, Breast Cancer Research Program	1995
Member, Pathobiology-6, USAMRMC, Breast Cancer Research Program	1996 - 1997
Member, Pathobiology-4, USAMRMC, Breast Cancer Research Program	1998 - 1999
Ad Hoc Reviewer, American Institute of Biological Sciences	1996 – 1999
Member, ZRG2 Special Study Section-1 Biologic. & Physiol. Sciences Special Emphasis Panel, DRG, NIH	1996 - 1998
Ad Hoc Reviewer, Israel Science Foundation (Israel Acad. Sci. & Humant.)	1997
Member, Cell Biology (CBY-1), USAMRMC, Prostate Cancer Research Program	1998 - 2000
Chair, Pathobiology (PBX-3), USAMRMC, Prostate Cancer Research Program	1998
Consultant, Immunology Devices Panel, Medical Devices Advisory Comm., Ctr. Devices & Radiologic Health, Food & Drug Administration	1998 - 2008
Ad Hoc Reviewer, Special Study Section-2, Protein Production, Structure And Function Study Section, CSR, NIH	1999
Member, PCRP Centers (PCC-2), USAMRMC, Prostate Cancer Research Program	1999
Member, ZRG1 Special Study Section-1 (2)B Biologic. & Physiol. Sciences Special Emphasis Panel, CSR, NIH	1999 - 2002
Chair, Pathobiology-4, USAMRMC, Breast Cancer Research Program	2000 - 2002
Member, Pathobiology-4, USAMRMC, Breast Cancer Research Program	2003 - 2004
Member, Pathobiology-1, USAMRMC, Prostate Cancer Research Program	2001 - 2003
Ad Hoc Reviewer, Special Study Section-3, 10B Special Emphasis Panel, CSR, NIH	2001
Ad Hoc Reviewer, Special Study Section-ZAT1E[SEP] 02, Nat. Center for Complementary & Alter. Med, NIH	2001
Ad Hoc Consultant, Orthopedic & Rehabilitation Devices Panel, Ctr. for Devices & Radiologic Health, Food & Drug Admin.	2002

STUDY SECTION ASSIGNMENTS, continued

Member, SPORE in Breast Cancer, CSR, NIH	2002
Member, Ovarian Cancer-1, USAMRMC, Ovarian Cancer Research Program	2002
Chair, ZRG1 Special Study Section-1 (10)B Diag. & Treatment of Cancer Special Emphasis Panel, CSR, NIH	2002 - 2003
Member, Ovarian Cancer-2, USAMRMC, Ovarian Cancer Research Program	2004 - 2006
Ad Hoc Reviewer, NCI-F Training Review Committee, CSR, NIH	2005
Member, Cell Biology (CBY-1), USAMRMC, Breast Cancer Research Program	2006
Ad Hoc Reviewer, ZCA1 RTRB-A(M1) Training Review Committee, CSR, NIH	2007
Member, Clinical & Experimental Therapeutics 2#, USAMRMC, Breast Cancer Research Program (BRCRP)	2008
Member, Susan G. Komen for the Cure Diagnostic and Prognostic Biomarkers 2 (DPB2) Committee	2008 - 2011
Member, Transformative Vision Award (TVA) Peer Review Panel (BCRP) for the DoD CDMRP.	2010
Reviewer, International Conference on Information and Communication Technologies and Applications ICTA 2011	2010-2011
Member, PCRP, Online Reviewer, EHD - Detection, Diagnosis and Prognosis for the DoD CDMRP.	2011
Member, CLSI Document Development Committee on Microwave Use in the Anatomic Pathology Laboratory (GP 28)	2011-2014
Reviewer, The 3rd International Multi-Conference on Complexity, Informatics and Cybernetics: IMCIC 2012	2011-2014
Ad Hoc Reviewer, Gabrielle's Angel Foundation for Cancer Research	2012
Ad Hoc Reviewer, Ch7 children's Research Foundation of South Australia	2012
Ad Hoc Reviewer, Nazarbayev University Research Review, ORAU	2016

PROFESSIONAL ASSOCIATIONS AND SOCIETIES

American Association for the Advancement of Science
 American Association for Cancer Research [Emeritus]
 American Pathology Foundation [Through 2016]
 American Society for Clinical Pathology [Fellow]
 American Society for Gene and Cell Therapy [Through 2016]
 American Society for Investigative Pathology
 American Medical Association
 Arthur Purdy Stout Society of Surgical Pathologists
 Association Of Clinical Scientists [Fellow]
 Association of Directors of Anatomic and Surgical Pathology [Emeritus]
 Association of Pathology Chairs
 College of American Pathologists [Fellow]
 Committee on Publication Ethics (COPE)
 Doctors Mayo Society
 International Society of Bone and Soft Tissue Pathology
 Intersociety Pathology Council [Through 2015]
 Jefferson County Medical Society
 Medical Association of the State of Alabama
 Metastasis Research Society [Through 2015]
 National Institutes of Health Alumni Association [Through 2015]
 New York Academy of Sciences
 Phi Delta Epsilon - Medical Fraternity
 U.S. and Canadian Academy of Pathology (International Academy of Pathology)

COMMITTEE & LEADERSHIP ASSIGNMENTS-PROFESSIONAL ASSOCIATIONSAmerican Association for Cancer Research

Mentor, Associate Member Grant Writing Workshop, 2002

American Society for Investigative Pathology

Member, Ad Hoc Committee on Initiatives in Education 1989

Member, Ad Hoc Comm. on the Welcome Visiting Professorships 1990

Member, Committee on Education 1991 - 1994

Member, Organizing Committee-Organ Specific Subsection 1995

Member, Nominating Committee 1997 - 2000

Councilor, Council [Executive Committee] 2002 - 2005

Member, Publications Committee 2005 - 2008

Member, Meritorious Awards Committee 2008 - 2011

American Society for Clinical Pathology Board of Registry

Member, BOR International Certification Committee 2006 - 2009

American Society for Clinical Pathology Board of Certification

Member, BOC International Certification Committee 2009 - 2010

Lead Ambassador, Europe - BOC International Ambassador Program 2010 - 2013

American Society for Clinical Pathology

Member, CGMEP Council on Education and Research, 2000 - 2003

Member, Fellow Council 2004 - 2008

Chair-elect, Fellow Council 2004 - 2005

Member, Annual Meetings/Weekends Committee 2004 - 2009

Member, Membership Commission 2004 - 2006

Chair, Scientific Presentation Subcommittee, ASCP Annual Meeting 2004 - 2005

Chair, Fellow Council 2005 - 2006

Member, Task Force on the Future of Pathology 2005 - 2006

Member, Board of Directors 2005 - 2006

2011 - Present

Member, Finance Committee 2007 - Present

Member, Nominations Committee 2009 - 2013

Member, Task Force on the Selection of the new EVP [Exec Search Comm] 2009 - 2010

Member, Commission on Public Policy & Government Relations 2009 - Present

Represt. from the Comm. on Public Policy to the ASCP Int'l Commission 2010 - 2013

Chair, Awards Committee 2012 - 2016

Vice-President [Executive Committee] 2017 - Present

Arthur Purdy Stout Society of Surgical Pathologists

Member, By-Laws Committee 1992 - 1994

Member, Nominating Committee 1994 - 1996

Secretary, Executive Committee 1997 - 2003

President-Elect, Executive Committee 2003 - 2005

President, Chair of the Executive Committee 2005 - 2007

Immediate Past-President 2007 - 2009

Association Of Clinical Scientists

Co-Chair, Program Committee 2017 - Present

Association of Directors of Anatomic and Surgical Pathology

Member, A.D.A.S.P. Council [Executive Committee] 2000 - 2005

College of American Pathologists

Member, Surgical Pathology Committee 2005 - 2010

Member, Publications Committee 2005 - 2008

2017 - Present

Reviewer, Bone and Soft Tissue Abstract and Case Report Submissions 2006 - Present

Vice-Chair, Publications Committee 2009 - 2010

Member, Council on Education 2010 - 2013

Chair, Publications Committee 2010 - 2013

Advisor, Publications Committee 2013 - Present

Member, House of Delegates 2014 - Present

COMMITTEE & LEADERSHIP ASSIGNMENTS-PROFESSIONAL ASSOCIATIONS. continued

Member, HOD Action Group on Rules	2014 – 2016
Member, HOD Action Group on Leadership	2016 – 2016
Member, CAP User Experience Panel	2017 - Present
<u>International Skeletal Society</u>	
Member, Corrinne Farrell Prize Committee	1996 - 1998
Member, Closed Meeting Committee	2000 - 2001
Member-at-Large, Executive Committee	2007 - 2009
Asst. Secretary & Member, Executive Committee	2010 – 2011
Member, Skeletal Radiology Editor-in-Chief Search Comm.	2017 - Present
<u>Intersociety Pathology Council</u>	
Representative	2002
Secretary/Treasurer, [Executive Committee]	2003 - 2007
Chair, [Executive Committee]	2007 - 2010
<u>International Society for Bone & Soft Tissue Pathology</u>	
At Large Officer (North American - Representative) [Executive Committe]	2012 - Present
<u>Mayo Clinic Alumni Association</u>	
Member, Board of Directors	2013 – Present
<u>Onicron Delta Kappa National Leadership Honor Society</u>	
Member, National Advisory Board	2016 – Present
<u>U.S. and Canadian Academy of Pathology</u>	
Member, Bone & Joint Diseases Abstract Review Committee	1989 - 1991
Member, Pathobiology Abstract Review Committee	2000 - 2002
Co-Chair, Pathobiology Proferred Paper Session	2000
Member, Pathobiology Abstract Review Committee	2003 - 2005
Co-Chair, Pathobiology Proferred Paper Session	2004
Member, B. Castleman Award Committee	2004 - 2007
Member, Ex-officio, S. Vogel Award Committee	2009 – Present
Ambassador Emeritus	2016 - Present
<u>Sigma Xi, The Scientific Research Soc of No. America</u>	
President, UNC Chapter -	1988 - 1989

CERTIFICATION AND LICENSURE

Diplomate - National Board of Medical Examiners	1975
Diplomate - The American Board of Pathology - Anatomic Pathology	1978
Recertified	2012
“Licensed” - Authorized Radionuclide User under the NIH Broad License	1980

BIOGRAPHICAL INFORMATION

Who’s Who in America	The Best Doctors in America
2000 Outstanding Scientists of the 21st Century [Order of Excellence]	
American Men & Women of Science	The International Who’s Who in Medicine
Who’s Who in American Education	Who’s Who in the South and Southwest
The International Directory of Distinguished Leadership	Who’s Who in the World
The Best Doctors in America: Southeast Region	Who’s Who in Medicine & Healthcare
The ABMS Directory of Bd. Certified Medical Specialists	Lexington’s Who’s Who
The National Register of Who’s Who - Executives and Professionals	Manchester Who’s Who
America’s Registry of Outstanding Professionals	United Who’s Who
One Thousand Great Scientists - Internatl Bio Ctr	Empire Who’s Who
	Strathmore’s Who’s Who

BIOGRAPHICAL INFORMATION, Continued

The International Health Professional of the Year
Global Directory of Who's Who
The National Registry of Who's Who

Madison Who's Who
Sterling Who's Who
IBC 21st Century Award for Achievement

Academic Keys Who's Who
in Medicine [Academic] Education

International Who's Who of Professionals
Leading Health Professionals of the World

Continental Who's Who Registry of National
Business Leaders

Consumers' Research Council of America
Guide to America's Top Physicians

Heritage Registry of Who's Who
Best of the US [Best of Class - Medicine]
Montclair Who's Who in Healthcare

American Board of Medical Specialties
Cambridge Who's Who
Princeton Premier Business Leaders and
Business Professionals

Consumers' Research Council of America
Guide to America's Top Pathologists

Who's Who Among Executives
and Professionals
Premier Intern't'l Who's Who Registry of
Outstanding Professionals

Faculty Row – Super Professors

CERTIFICATION AND LICENSURE

UAB Radioactive Material License #230

1991 - 2009

Licensed to practice Medicine in the states of:

California 1975 - present
Minnesota 1975 - 1987
Maryland 1979 - 1991

North Carolina 1982 - 1992
Alabama 1990 - present

MILITARY SERVICE

Sr. Asst. Surgeon Commissioned Corps, U.S. Public Health Service

10/79 - 9/81

ADMINISTRATIVE ACTIVITIES

University of Alabama Med. Center Senior Administrative Positions

Interim Chair of Pathology	2015 - 2016
Executive Vice-Chair of Pathology	2008 - Present
Director, Division of Anatomic Pathology, UAB Hospital	1990 - 2015
Laboratory Director, UAB Dermatopathology Independent Clinical Lab.	2006 - 2008
State of AL Dept. of Public Health Regular Lic. # 12924	2012 - 2013

University of Alabama Med. Center Committee Assignments:

Director, Anatomic Pathology, UAB Highlands Hospital	2006 - 2015
Member, Tumor Registry Advisory Committee	1991 - 2000
Member, Medical Records Committee	1992 - 2001
Member, Gene Therapy Sub-Committee of the Disease Oriented Workgroup, UAB Comprehensive Cancer Center	1995 - 2003
Member, Oncology Service Line Committee	1997 - 1998
Member, Sarcoma Working Group, UAB Comprehensive Cancer Center	1997 - 2005
Member, Health Information Management Committee	2001 - 2002
Member, Internal Advisory Committee, UAB Comprehensive Cancer Center Tissue Procurement Shared Facility.	2004 - Present
Member, UAB Hospital Medical Directors' Council	2006 - Present
Member, UAB Health System Quality Council	2011 - 2013
Member, Clinical Physician Advisory Group [CPAG]	2013 - 2015
Member, Joint Operating Leadership/Clinical Chairs Council	2015 - 2016
Member, Health System/CEO Committee	2015 - 2016
Member, Medical Executive Committee (Med. Staff Exec Committee)	2015 - 2016

ADMINISTRATIVE ACTIVITIES, continued

University of Alabama School of Medicine	
Member, Cancer Center Executive Committee	1993 - 2003
Member, Dean's Ad Hoc Committee for Gross Anatomy	1993 - 1994
UAB Comprehensive Cancer Center Program Leader, Developmental Program in Breast, Ovary, and Prostate Cancer	1993 - 1999
Elected Member, Joint Health Sciences Faculty Status Committee (Highest Advisory Committee to the Deans)	1996 - 1999
Member, Distinguished Faculty Lectureship Committee	1998 - 2000
Member, IRB Review Committee, "Nutritional effects of tobacco/alcohol induced cellular changes leading to oral cancer"	2000 - 2001
Member, Center for Metabolic Bone Disease Steering Committee	2001 - 2014
Member, UAB Clinical Res Training Program [CRTP] Study Section [K30 Selection Committee]	2003 - 2005
Member, Basic Biology of Aging Abstract Review Committee	2003 - 2005, 2007
Co-Chair, Pilot Project Grant Review Committee, Bone Res. Core Grant	2008
Member, Pilot Project Grant Review Committee, CCTS/UWIRC	2009
Member, Joint Health Sciences Committee	2015 - 2016
Member, School of Medicine Executive Committee (Dean's Committee)	2015 - 2016
Member, Clinical Chairs Advisory Committee	2015 - 2016
Member, Comprehensive Cancer Center Recruitment Committee	2015 - 2016
Chair, Tissue Acquisition & Procurement Task Force	2017 - Present
University of Alabama Health Services Foundation	
Member, HSF Executive Committee	2015 - 2016
Member, Clinical Chair Councils	2015 - 2016
University of North Carolina Hospitals Senior Administrative Positions	
Director, Histopathology Laboratories	1984 - 1990
Associate Director, Surgical Pathology	1988 - 1990
Director, Special Procedures Laboratories	1988 - 1990
Member-at-Large, Executive Committee, Medical Staff	1988 - 1989
University of North Carolina Hospitals Committee Assignments	
Member, Medical Care Evaluation Committee	1982 - 1990
Member, Ad-Hoc Committee for Computerization of Anatomic Pathology	1989 - 1990
Member, Search Committee - Director, Cytopathology Laboratory	1988 - 1989
University of North Carolina School of Medicine	
Member, Elective Programs Committee	1986 - 1990
Medical Student Class Advisor	1988 - 1990
Department of Pathology - University of Alabama at Birmingham	
Member, Residency Review Committee	1990 - 2007
Member, Research Seminar Committee	1991 - 1994
Member, Undergraduate Medical Education Committee	1992 - 2002
Department of Pathology - University of North Carolina	
Member, M.D. - Ph.D. Ad-Hoc Committee	1983 - 1984
Liaison, Dept. - University (Sigma Xi)	1983 - 1990
Member, Search Committee - Asst. Prof. of Pathology, Chemical Carcinogenesis (with Lineberger Cancer Research Center)	1985
Member, Search Committee - Research Associate, In-Vitro Molecular Biology of Malignant Transformation	1985
Member, Search Committee - Research Associate, Chemical Carcinogenesis and Mutagenesis	1985
Member, Search Committee - Research Assistant Professor, Tumor Biology	1988

Member, Search Committee - Assistant Professor of Pathology,
Dermatopathology 1989

ADMINISTRATIVE ACTIVITIES, continued

Chair, Ad Hoc Committee-Anatomic Pathology Quality Assurance/
Proficiency Testing 1983 – 1990
University of North Carolina at Chapel Hill
Alternate Member, Faculty Council 1985 - 1986
Treasurer, UNC-CH Chapter, Sigma Xi 1987 - 1989
President, UNC-CH Chapter, Sigma Xi 1989 - 1990

TEACHING ACTIVITIES

Pathology Colleagues

"Expert" - Thyroid Lesion Panel - College of American Pathologists - Performance Improvement Program in Diagnostic Surgical Pathology and Cytopathology. (1985-86)
Test Committee, Anatomic Pathology (Bone & Joint Diseases) - Commission on Graduate Medical Education in Pathology - Pathology Resident In-Service Examination - American Society of Clinical Pathologists. (1989 - 1990)
Abstract Review Board, Bone & Joint Diseases - United States-Canadian Academy of Pathology, International Academy of Pathology. (1989-1991)
Siegal, G.P. and Pitt, M.J.: Tumor and Tumor-like Conditions in Bones and Joints of Children. American Society of Clinical Pathologists TeleConference (Nov. 3, 1995). ASCP Check Sample Program Reviewer (2004 - 2006)

Housestaff - University of Alabama Hospital

Daily Surgical Pathology Signout and accompanying Conferences (1-2 wk/mo.)

Housestaff - University of North Carolina Hospital

Daily Surgical Pathology Signout and Accompanying Conferences (7 mos./yr.) Necropsy Service (1/2 mo./yr.) (1982-85)
Faculty Mentor to David H. Cresson, M.D. - Wiley Forbus Resident Research Award Laureate, 1985 (North Carolina Society of Pathologists)

Medical Students - University of Alabama at Birmingham

Lectures and Laboratories - General and Correlative Pathology Course
Senior Electives in Surgical Pathology
Small Group Leader - Cell Biology and Cellular Physiology in Medicine Course

Research faculty mentor for:

Na-rong Kulvatunyou	1991	Lack of expression of the cell surface glycoprotein, LAMP, in nontransformed mouse fibroblasts and viral-induced transformants using immunoperoxidase techniques
Curtis L. Adams	1991	Immunohistochemical evaluation of cartilaginous tumors of bone
Heather Armstrong	1991	The effect of selected amino acids on human tumor invasion in vitro (AMA ERF Award for Cancer Research)

Medical Students - University of North Carolina

Lectures and Laboratories (Path 161) - General and Systemic (Organ System) Pathology Courses

Elective (Path 409) - Immunohistochemical Diagnosis of Solid Tumors in Humans

Elective (Path 411) - Research in Pathology

Elective (Path 401) - Surgical Pathology

Professional Oncology Education Program - Summer Student Assistantship Program

Faculty Mentor for Students Elected to the John B. Graham Student Research Society:

EXPERIENCE AND TRAINING. continued

Asha Kallianpur	1985-1986	(Michiko Kuno Award)	
Deepak Sawhney	1986-1987	John Kim	1987-1988
William McGuirt	1987-1988	E. Travis Smith	1988-1989
William Naso	1987-1988	Babatunde Olatidoye	1988-1989

Undergraduate Students - University of North Carolina

Advisor - Field Training in Health Administration (School of Public Health (HPAA90) - K. Sopher, (1984-85)

Research Mentor - Chemistry Honors Research (School of Arts and Sciences) - M. Tymoschenko, (1990) -

Recipient of UNC Parents' Council Undergraduate Research Award.

Graduate Students - University of Alabama at Birmingham

Lecturer (Biochem BYC 747): Connective Tissue Biochemistry

Lecturer (Path 701): Molecular Mechanisms of Disease

Graduate Students - University of North Carolina

Lectures (Path 195) - Fundamentals of Cancer Biology - Course Director

Lectures (Path 197) - Fundamentals of Clinical Oncology - Course Director

Participation in Graduate Lectures and Seminars including:

Path 292 (Seminar in Carcinogenesis) Path 213 (Pathology for Graduate Students/Mechanisms of Human Disease) and Path 214 (Etiology and Pathogenesis of Human Disease) - Department of Pathology and Interdepartmental Series

Thesis Advisor (Ph.D. Candidate)	- S. Zaki, M.D.	(1983-1984)
Thesis Advisor (M.S. Candidate)	- L. Pisharodi, M.D.	(1985-1986)

Graduate Students - University of North Carolina

Thesis Committee Member	- R.C. Cattley, (Ph.D.)	(1985-1988)
	- S.M. Kirby (Ph.D.)	(1986-1990)
	- R.A. Vaitkus (M.S.)	(1988)
	- L.L. Barrett (M.S.)	(1989-1990)
	- J.F. Mahler (Ph.D.)	(1989-1990)

Graduate Students - University of Alabama at Birmingham

Lecturer (Path 703): Introduction to Pathology Research

Monitor (Path 704): Oral Presentation Skills - Gene Therapy Research

Panel member (PHY-794): Ethics and Scientific Publications

Lecturer (GBS770): The Pathobiology of Cancer - Cancer of the Bone

Thesis Advisor (M.S. awarded)	- Lyndon Goodly, D.V.M.	(1991 - 1995)
Thesis Advisor (Ph.D. awarded)	- Ming Zhang, M.D.	(1992 - 1997)
Thesis Committee Member (Ph.D. awarded)	- Kirby Bodden, D.M.D.,	(1991 - 1994)
Thesis Comm. Member (M.D./Ph.D. awarded)	- Phillip Chen, B.S.	(1993 - 1995)
Thesis Comm. Member (M.S. awarded)	- Sharon Samuel, B.S.	(1995 - 1997)
Thesis Comm. Member (M.D./Ph.D. awarded)	- Jon Grim, B.S.	(1996 - 1998)

Thesis Advisor (Ph.D. awarded)	- Kun Yuan, B.M., M.S.	(2000 - 2007)
Thesis Comm. Chair (Ph.D. awarded)	- Andrea Sadlonova, B.A.	(2002 - 2005)
Thesis Comm. Chair (Ph.D. awarded)	- James Cody, B.S.	(2003 - 2008)
Thesis Comm. Chair (Ph.D. awarded) Thesis	- Lakisha Moore, B.A.	(2004 - 2008)
Comm. Member (Ph.D. awarded) Thesis	- Lynda Evans, B.A.	(2006 - 2009)
Comm. Member (M.D./Ph.D. awarded) Thesis	- Sherry W. Yang, B.S.	(2007 - 2010)
Comm. Member (M.D./Ph.D. awarded) Thesis	- Lena J. Gamble, B.S.	(2007 - 2010)
Comm. Chair (Ph.D. awarded)	- Jonathan Hensel, B.S.	(2008 - 2011)

TEACHING ACTIVITIES continued

Thesis Comm. Member (Ph.D. candidate)	- Matthew S. Beatty, B.S.	(2008 - 2013)
Thesis Comm. Member (withdrawn Ph.D. cand)	- Leland Black, B.S.	(2008 - 2014)
Thesis Comm. Co-Chair (M.D./Ph.D. awarded)	- Michael O. Alberti, B.S.	(2009 - 2011)
Thesis Comm. Member (Ph.D. awarded)	- Matthew Vallejo, B.S.	(2010 - 2013)
Thesis Comm. Member (Ph.D. awarded)	- Elizabeth Mitchell, B.S.	(2010 - 2014)

Graduate Students - University of Alabama at Birmingham, continued

Thesis Comm. Member (Ph.D. awarded)	- Robert N. Bone, B.S.	(2011 - 2014)
Thesis Comm. Chair (Ph.D. awarded)	- Seth G. Levy, B.S.	(2011 - 2014)
Thesis Comm. Member (Ph.D. candidate)	- Ha-Ram Cha, B.S.	(2012 - 2015)

Primary Postdoctoral Trainees - University of Alabama at Birmingham

<u>Name</u>	<u>Dates</u>	<u>Susequent Positions</u>
Raj K. Singh, Ph.D.	1992-1999	Res Asso to Asst. Prof. Dept. of Physiologic Optics UAB; Sci. Director, Diversified Scientific Inc.;CEO& Chief Sci. Officer, Vivo Biosciences, Inc., Birmingham, AL
Vladimir Ternovoi, M.D., Ph.D.	2002-2006	Post-doctoral Fellow, Dept. of Medicine Univ. Texas HSC at San Antonio
Anton V. Borovjagin, Ph.D.	2004-2007	Asst. Prof. Oral Biol. Res. Ctr, UAB, Birmingham
Yuko Tsuruta, M.D., Ph.D.	2006-2006	Asst. Prof. Dept. of Medicine, UAB, Birmingham

Faculty Mentor - K30 Clinical Training Program - UAB

<u>Name</u>	<u>Dates</u>	<u>Current Position</u>
Dharshana Jhala, M.D., M.Mus.	2002-2003	Asso. Prof. of Pathology Univ. of Pennsylvania
John T. Lam, M.D.	2002-2004	Asso. Prof. of Pathology Univ. Of Mississippi

Dental Students - University of North Carolina

Lectures and Laboratory (Oral Medicine 120 and 214) - Pathology for Dental Students

Medical Technology Students - University of North Carolina

Lectures - Medical Technology 83B (Survey of Pathology)

High School Students - University of North Carolina

Faculty Mentor to Maria F. Tymoschenko - Honors Group, 46th Annual Westinghouse Science Scholarship and Awards Annual Talent Search, 1986-87

ACTIVE RESEARCH SUPPORT

(a) Haley's Hope Memorial Support Fund for Osteosarcoma Research at the University of Alabama at Birmingham, **Gene P. Siegal -Recipient** b) Principal Investigator, 0 % effort; (c) 10/01/02-open ended,. Income from fund (d) 10/01/16-09/30/17, Income from fund (e) This fund was created to support basic and translation research in osteosarcoma and the PI was named sole recipient of these funds to support his ongoing research endeavors.

(a) Thomas Logan RAID Fund for Ewing's Sarcoma Research, **Gene P. Siegal -Recipient** b) Principal Investigator, 0 % effort; (c) 08/10/09-open ended,. Income from fund (d) 10/01/16-09/30/17, Income from fund (e) This fund was created to support basic and translation research in Ewing's Sarcoma and the PI was named recipient of these funds to support his ongoing research endeavors.

(a) NIH P30 DK074038, UAB Hepato/Renal Fibrocystic Disease Center, Bradley K Yoder - Principal Investigator; (b) **Gene P. Siegal –The Therapeutic Screening & Drug Development Resource Core Co-Director**, 0.6 cal person mo effort (c) 09/30/05-06/30/20, \$826,662 (d) 07/01/16-06/30/17 \$117,500 (e) Objective of this interdisciplinary center of excellence in recessive polycystic kidney disease is to provide tissue characterization and immunoreagent resources to investigators attempting to unravel the mechanisms implicated in the pathogenesis of this disease.

(a) NIH 1R01 CA184770, Targeted therapy for breast cancer with osteolytic bone damage, Selvarangan Ponnazhagen – Principal Investigator; (b) **Co-Investigator**, 0.60 cal person mo effort; (c) 12/01/14-11/30/19, \$964,000 (d) 12/01/17-11/30/18, \$321,211 (e) Objective is to explore osteolytic bone complications and tumor immunosuppression by a unique combination therapy for late stage disease in an immunocompetent preclinical mouse model of bone-disseminated breast cancer.

(a) NIH 3U54 CA 118948, Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Center Partnership, Upender Manne – Principal Investigator; (b) **Co-Investigator**, 0.03 cal person mo effort; (c) 09/01/16-08/31/21, \$199,999 (d) 09/01/15-08/31/15, \$199,999 (e) Objective is to maintain progress in establishment of effective cancer research programs at Morehouse School of Medicine and Tuskegee University and to conduct cancer health disparities research at UAB. The overall objective of this Partnership is to reduce and eliminate cancer health disparities.

COMPLETED RESEARCH SUPPORT 1982 - 2014

(all dollar amounts reported as direct costs for last year)

NIH, 1-R01-CA31733, Promotion of Chemical Carcinogenesis in Uterine Tissue, David G. Kaufman - Principal Investigator, 5% to 25% effort, \$161,511, 2/1/82-2/31/89. Objective was to study human endometrial epithelial and stromal cell cultures, tumor promotion in the presence or absence of hormones, inflammation, and promoting agents.

University of North Carolina, 43397, Identification of Immunoreactive Peptides in Human Small Cell Carcinoma of the Lung, Gene P. Siegal - Principal Investigator, \$1,500. 11/15/82-11/14/84. Objective was to identify, by immunoperoxidase staining, the number and location of human small-cell carcinoma cells containing bioactive substances including bombesin and neuron specific enolase.

NIH, 1-R01-CA32239, Species Comparison of Uterine Carcinogenesis, David G. Kaufman - Principal Investigator, 25% effort, \$104,989. 4/1/82-12/31/85. Objective was to compare human and rodent uterine tissues for their abilities to metabolize and bind carcinogens, form mutagens, and repair DNA damage.

University of North Carolina, 43633, University Research Council Publication Subsidy Award, Gene P. Siegal - Principal Investigator, \$900. 5/1/84-4/30/85. Objective was to support the PI's Publications in the field of immunohistochemistry including color photographic reproduction costs.

COMPLETED RESEARCH SUPPORT, continued

American Cancer Society, Institutional Grant, IN-15-Y, Isolation of Highly Invasive Human Tumor Cells from a Heterologous Population in Culture, Gene P. Siegal - Principal Investigator, \$7,500. 7/1/83-6/3/85. Objective was to further develop an *in vitro* model system for the identification, separation, and characterization of human cell lines.

Innovative Research of America, 84-2004-N6-IRA, Biomedical Research Grant for Junior Investigators, Gene P. Siegal - Principal Investigator, \$1,000. 10/1/84-10/30/85. (Not Activated). Objective was to study the importance of estrogen levels *in vivo* in the metabolism of carcinogens by the endometrium.

University of North Carolina Junior Faculty Development Award, 69109, Gene P. Siegal - Principal Investigator, \$3,000. 1/1/85-12/31/85. Objective was to examine mesotheliomas immunohistochemically, to determine appropriate marker proteins, and to prove the mechanisms by which this tumor spreads.

American Cancer Society, JFCF 739, Junior Faculty Clinical Fellowship to Gene P. Siegal, \$11,000. 7/1/83-6/30/86. Objective was to support the development of expertise in service, teaching, and research in the area of oncologic pathology.

Sigma Xi, 68198, The Immunohistochemical Features of Epithelial Basement Membrane Corneal Dystrophy of the Human Eye, Gene P. Siegal - Principal Investigator, \$800. 7/1/84-6/30/86. Objective was to examine by immunoperoxidase techniques the aberrant basement membranes produced in this disease.

University of North Carolina Medical Faculty Grant, 34144, Immunohistochemical Localization of Estrogen Receptors in the Human Endometrium in Normal and Neoplastic States, Gene P. Siegal - Principal Investigator, \$2,000. 4/15/85-3/31-87. Objective was to identify ER sites in normal endometrium, endometrial sarcomas and carcinomas and to compare these results with biochemical *in vitro* assays of Estrophyllin.

NIH, ES-55092, Development of Human Cell Assay Systems for Genetic Toxicity, David G. Kaufman - Principal Investigator, (20%/15%/5% effort over 3 yrs), \$178,094. 5/1/85-4/31/88. Objective was to develop an assay system for detecting genetic toxicity where both the activation of procarcinogens and the scoring of genotoxic endpoints were done in the same human cell.

Gaston County Cancer Society, Proliferation of Highly Malignant Clones from Preexisting Low Grade Malignant Tumors of Bone. Gene P. Siegal - Principal Investigator, \$1,500. 9/1/86-8/31/88. Objective was to compare and contrast dedifferentiated bone neoplasms with *de novo* malignant tumors of bone by immunohistochemical and histochemical techniques.

NIH, MRC 5T34 GM08037 - OIAI. MARC Training Program at Pembroke State University. M.D. Maxwell - Principal Investigator, no salary support, \$119,787. 6/1/84-5/31/89. Objective of the Minority Access to Research Careers (MARC) Program was to encourage qualified minority students to pursue a graduate degree and enter a career in biomedical research. Trainee - Kimberly Locklear.

University of North Carolina Hospitals, Development of a Diagnostic In-Situ Hybridization Laboratory Service. Gene P. Siegal - Principal Investigator, \$34,991, 7/1/89-6/30/90. Objective was to develop institutional expertise in testing for human papillomavirus and other microorganisms by DNA *in-situ* hybridization.

UNC - Jefferson Pilot Fellowship in Academic Medicine to Gene P. Siegal, 69279, \$3,000. 7/1/86-6/30/90. Objective was to support young faculty to explore new ideas, new ways of teaching students, treating patients or investigating biological problems that are not available from usual extramural funding agencies.

NIH, 1-R01-CA31261, Promotion of Chemical Carcinogenesis in Uterine Tissue (Renewal) David G. Kaufman - Principal Investigator, 5% effort, \$228,706. 1/1/90-12/31/94. Objective was to test the hypothesis that the malignant transformation of human endometrial cells involves a multistep process of progressive genetic alterations that is unique to human endometrial cells.

COMPLETED RESEARCH SUPPORT, continued

Gaston County Cancer Society, Inc. - The UNC Bone Tumor Repository, an Institutional and Community Educational Resource. Gene P. Siegal - Principal Investigator, \$7000, 10/15/88-9/14/91. Objective was to develop a regional bone tumor repository to serve as a continuing data base for learning and scholarship.

NIH, CA 42765, Cycle-Dependent Mechanisms of Chemical Carcinogenesis, David G. Kaufman - Principal Investigator and Administrative Director, Gene P. Siegal - Deputy Director, 15% effort, \$784,073. 4/1/88-3/31/93. Objective was to examine cell-cycle effects on DNA replication and repair as well as a phenomenological characterization of transformation including underlying genetic and molecular mechanisms. Postdoctoral Fellow - James Hallman, M.D.

Hasbro Children's Foundation, The UNC Children's Bone Tumor Repository, Gene P. Siegal - Principal Investigator, \$5460, 5/1/89-4/30/91. Objective was to supplement the Gaston County Cancer Society Grant, extending the archiving of cases to pediatric neoplasms and related conditions.

Greenwall Foundation, Role of Tumor Suppressor Genes in Osteogenic Sarcomas and Other Tumors in Transgenic Mice, Victoria Bautch and J. Carl Barrett - Principal Investigators, 3% effort, \$150,000. 5/1/90 - 4/30/92. Objective was to develop a model system to study the role of tumor suppressor genes in carcinogenesis.

NIH, R25 17973, Cancer Education Program. J.F. Hauth - Principal Investigator. Gene P. Siegal - Associate Director and Program Coordinator, 5% effort, \$69,130. 7/1/74- 8/31/94. A multidecade long training program for health professional students in both basic and applied oncology research. Trainees - Sergio Orellana, Eric Miller, Joseph Roberson, Asha Kallianpur, Deepak Sawhney, Sally Anger, William McGuirt, William Naso, Babátúndé Olátidóyè.

NIH, CA 45727, Chemical Progression and Inhibition of Neoplasia. Gene P. Siegal - Principal Investigator, 50% effort, 7/1/87-6/30/93, \$108,131. Objective was to determine a quantifiable *in vitro* endpoint for malignant transformation in culture and measure chemical effects on transformed cells using the same *in vitro* assay system.

UAB Center for Aging, Gene P. Siegal - Principal Investigator, 4/1/93-3/31/94, \$9,994. Objective was to understand the relationship between tumor cells, the extracellular matrix (ECM), and aging and provide insight in the mechanism of increased cancer incidence in an aging population.

NIH, MAO/RFP No. NCI-CN-15340-50, Early Detection Network MAO II. William E. Grizzle - Principal Investigator, 5% effort; \$201,572. Objective was to develop techniques to identify the transition from the pre-neoplastic to the fully transformed state and identify markers which may predict the progression of tumors.

NIH CA 28103, Nutrition Science Center, Carlos L. Krumdieck - Principal Investigator; Regulation of Human Tumor Cell Invasion by Sodium-Linked Amino Acid Transport, Raj K. Singh - Starter Grant Principal Investigator; Consultant, no salary support requested; 8/1/92-3/31/95, \$33,000; Objective was to determine how natural and non-metabolizable amino acids regulate invasive behavior of human tumor cells.

Cystic Fibrosis Foundation #6330, Eric Sorscher - Principal Investigator; 5% effort; 9/30/94-9/29/95, \$50,000; Objective was to develop novel delivery systems for gene transfer in cystic fibrosis.

American Cancer Society #95-4-1, ACS Clinical Oncology Fellowship; Program Director, no salary support requested; 7/1/92-6/30/96, \$35,000; Objective was to improve the management of the patient with cancer by supporting clinical oncology training in pathology for young physicians.

Bell South, SR-0372Z LPO 94-01SK, Bell South Anatomic Telepathology Project, David Conner - Principal Investigator; 5% effort; 2/1/95-2/1/97, \$553,740; Objective was to develop a prototype telepathology system .

University of Miami School of Public Health, Gary S. Schwartz - Principal Investigator; Modulation of Prostate Cancer by Vitamin D Analogues, Principal Investigator - Subcontract, no salary support requested; 1/1/95-12/31/95, \$3,000; Objective was to test the ability of vitamin D and derivative novel analogues to inhibit invasion of human prostate cells in vitro.

COMPLETED RESEARCH SUPPORT, continued

NIH, MAO/RFP No. NCI-CN-15340-50, Early Detection Research Network MAO II, William E. Grizzle - Principal Investigator, 5% effort, 9/30/92-9/29/95, \$773,394. The specific aims were to develop techniques to identify the transition from the pre-neoplastic to the fully transformed state and identify markers which may predict the progression of tumors.

NIH SBIR R43 CA69883, A new *in vitro* human angiogenesis model system; Raj K. Singh - Principal Investigator; Gene P. Siegal - Subcontract Director, 5% effort; 5/1/96-4/30/97, \$100,000; 5/1/96-4/30/97, \$100,000; (e) Objective was to commercialize a novel human angiogenesis system and to perform scale-up experiments.

NIH SBIR R43 CA71285, Conformationally restrained anti-metastatic dipeptides; Raj K. Singh - Principal Investigator; Consultant, no salary support requested; 10/1/96-9/30/97, \$100,000; 10/1/96-9/30/97, \$100,000; Objective was to design and synthesize new potent and selective type IV collagenase inhibitors and their potential for anti-invasion and anti-metastatic activity.

NIST 639118 (via BellSouth), Thomas S. Winokur - Principal Investigator, 15% effort, 1/1/96-12/31/98,, \$162,007. (e) Objective was to develop a prototype system combining features of dynamic and static telepathology and demonstrate its usefulness against traditional intraoperative consultation.

NII TelePath System Project, Thomas S. Winokur - Principal Investigator, 5% effort, 2/27/98-2/26/99, \$100,000. (e) Objective was to develop a prototype gross pathology system as an add on to the current telepathology system and demonstrate its usefulness.

University of Miami Sylvester Comprehensive Cancer Center, Gene P. Siegal - Principal Investigator; Modulation of Prostate Cancer by Novel Vitamin D Analogues, Subcontract, no salary support requested; 5/1/98-4/31/99, \$6,000; Objective was to test the ability of vitamin D derivative novel analogues to inhibit invasion of human prostate cells *in vitro*.

NIH PAR-95-023, Molecular chemotherapy for ovarian cancer, Ronald Alvarez - Principal Investigator; Co-PI, 2.5%; 7/1/97-6/30/00, \$100,000; Objective was to identify the MTD of the proposed HSV-TK/GC methodology and its associated clinical toxicity.

(a) Cancer Treatment Research Foundation, David T. Curiel - Principal Investigator; A targeted vector strategy for ovarian cancer gene therapy (b) Co-Investigator, 5% effort; (c) 9/1/98-8/31/00, \$250,000, (d) 9/1/99-8/31/00, \$125,000 (e) Objectives were to determine: (1) maximally tolerated dose and spectrum of toxicities encountered; (2) safety of administration; (3) efficacy; and (4) ability of intraperitoneally delivered Fab-FGF modified adenovirus to enhance the host immune response to ovarian tumor cells.

(a) NIH R01 CA72532, sFv-mediated oncogene knock-out for chemosensitization, Gene P. Siegal - Principal Investigator; b) Principal Investigator, 10 % effort; (c) 7/1/97-4/30/01, (d) 6/13/00-4/30/01, \$136,729; (e) Objective was to demonstrate that the sFv-mediated knock-out technique can be developed as a means to achieve enhanced chemosensitization as a therapeutic modality for ovarian carcinoma of epithelial origin.

(a) NASA SBIR [Phase I], Novel Biomatrix System for human tissue growth and angiogenesis in microgravity; Raj K. Singh - Principal Investigator; b) Consultant, no salary support requested; c) 4/1/01-9/30/01, d) 4/1/01-9/30/01, \$70,000; (e) Objective was to design and test Amgel based assays which can support human cell proliferation and angiogenesis in conditions encountered during space exploration.

(a) NIH, CA 25408, Pediatric Oncology Group - UAB Subproject, Robert P. Castleberry - Principal Investigator; (b) Gene P. Siegal - Principal Investigator - Osteosarcoma Pathology Subproject, 5% effort; (c) 1/1/96-12/31/01, \$607,262; (d) 1/1/01-12/31/01, \$153,297 (\$8,707-GPS's subsection); (e) Objective was to contribute to new and more effective treatment methods and their associated toxicities in a variety of hematopoietic and solid malignancies in children with this subsection's focus on osteosarcoma.

COMPLETED RESEARCH SUPPORT, continued

(a) NIH 1R01 CA74242-01, Adenoviral Mediated Targeted Gene Delivery, David T. Curiel - Principal Investigator; (b) Co-PI, 5% effort yrs 1-2, 2.5% yrs 3-5; (c) 4/1/97-1/31/02, (d) 2/1/01-1/31/02, \$171,984; (e) Objective was to develop a gene transfer vector capable of specific and selective transduction of disseminated neoplastic cells.

(a) DAMD PC-991018; U.S. Army Medical Research and Materiel Command, Infectivity enhanced adenoviruses for improved replicative oncolysis; David T. Curiel, Principal Investigator; (b) **Co-Investigator**, 2.5% effort, (c) 12/1/99 - 2/14/03 (d) 12/1/00-11/30/01 \$121,092; (e) Objective was to develop modifications of the replicative adenoviral vectors already created by us to improve transduction efficacy for prostatic tumor cells.

(a) DAMD 17-99-1-9415, U.A. Army Medical Research and Materiel Command, Modulation of Breast Cancer by Alpha-L-Fucose, **Gene P. Siegal** - Principal Investigator; (b) Principal Investigator, 12% effort (c) 7/15/99-11/30/02, \$306,661 (d) 7/15/01-11/30/02, \$92,960, (e) Objective was to test the importance of alpha-L-fucose in maintaining the invasive behavior of human breast cancer cells lines.

(a) Marc Lustgarten Foundation for Pancreatic Research, David T. Curiel - Principal Investigator; (b) **Co-Investigator**, 2.5% effort (c) 1/1/01-12/31/02, \$225,000 (d) 1/1/02-12/31/02 \$125,000. (e) Objective was to develop a conditionally replicative adenovirus specifically targeted to pancreatic carcinoma.

(a) NIH, U10 CA30969 Subcontract 9737, Foundation for the Children's Oncology Group (b) **Gene P. Siegal** - Principal Investigator - Osteosarcoma Pathology Subproject, 5% effort; (c) 12/1/01-2/28/03, \$17,414 (d) 12/1/02-2/28/03, \$8,707; (e) Objective was to contribute to new and more effective treatment methods and their associated toxicities in a variety of hematopoietic and solid malignancies in children with this subsection's focus on osteosarcoma.

(a) University of Alabama Health Services Foundation, Interdisciplinary Corroborative Laboratory for Gene Therapy Clinical Trials; **Gene P. Siegal**, Principal Investigator, no %/effort required, (b) Principal Investigator, (c) 2/1/00 - 2/28/03 (d) 2/1/02-2/28/03 \$150,000; (e) Objective was to develop a laboratory unit to support the ongoing and planned gene therapy clinical trials at UAB.

(a) NIH HL62736 A defined biomatrix model for human vascular studies; Raj K. Singh - Principal Investigator; (b) **Gene P. Siegal, Principal Investigator -Sub-Contract**, 5% effort, (c) 9/6/01-8/31/04, \$506,673, (d) 9/1/03-8/31/04, (\$52,761 Subcontract); (e) Objective was to design and test Amgel based assays which can support human cell proliferation and angiogenesis.

(a) NIH RO1 CA 86881, Dendritic Cell-Specific Vector; David T. Curiel - Principal Investigator; (b) **Co-Investigator**, 2.5% effort (c) 7/1/00-6/30/05 (d) 7/1/04-6/30/05 \$226,013. (e) Objective was to demonstrate the development of an optimal dendritic cell transduction system by creating a genetically targeted adenovirus to CD40 resulting in the elicitation of primary antitumor responses.

(a) NIH SPORE in Breast Cancer 1 P50 CA89019; William Grizzle - Core Leader; Tissue Resource and Pathology Core (Kirby Bland - SPORE PI); (b) **Investigator**, 5% effort, (c) 9/30/00-8/31/05, \$13,467,049 (d) 9/1/04-8/31/05, \$2,508,532 (CORE - \$175,310); Objectives were to collect, process and supply investigators with breast neoplastic tissues and controls for approved projects, to aid investigators in animal necropsies and to provide microdissected specimens and immunohistochemical prepared tissue sections.

(a) NIH P50 CA 83591, SPORE in Ovarian Cancer; William Grizzle - Core Leader; Tissue Resource and Immunopathology Core (Edward E. Partridge - SPORE PI); (b) **Investigator**, 5% effort, (c) 9/30/99-9/29/05, \$7,288,477 (d) 9/30/04-9/29/05, \$1,956,437 (CORE - \$152,916); Objectives were to collect, process and supply investigators with ovarian neoplastic tissues and controls for approved projects, to aid investigators in animal necropsies and to provide microdissected specimens and immunohistochemical prepared tissue sections.

COMPLETED RESEARCH SUPPORT, continued

(a) DOD 17-03-1-0104, Cyclooxygenase-2 Promoter-Based Conditionally Replicative Adenovirus for Prostate Cancer, Masato Yamamoto - Principal Investigator; b) **Investigator**, 1.0% effort; (c) 02/01/03 – 2/28/06, \$350,000 (d) 02/01/05 – 2/28/06, \$ 72,837 (e) Objective was the development of a highly effective and selective conditionally replicating adenovirus-based therapy for prostate cancer.

(a) DOD PC020372, Anti-Angiogenic Gene Therapy for Prostate Cancer, Selvarangan Ponnazhagen - Principal Investigator; b) **Co-Investigator**, 5 % effort; (c) 04/01/03-3/31/06, \$543,750 (d) 04/01/05-03/31/06, \$180,250 (e) Objective was to optimize the targeting conditions of 2 novel anti-angiogenic strategies and evaluate the cell-specific delivery of tropism-modified AAV vectors in a murine model.

(a).NIH, CA098543, Children's Oncology Group Chair's Grant (b) Gregory H. Reman, Principal Investigator; (b) Osteosarcoma Pathology Subproject - **Gene P. Siegal, Principal Investigator**, 0.48 cal person mo effort; (c) 3/1/03-2/28/06, \$41,514 (d) 3/1/05-2/28/06, \$10,259; (e) Objective is to contribute to new and more effective treatment methods and minimize their associated toxicities in a variety of hematopoietic and solid malignancies in children with this subsection's focus on osteosarcoma confirmation and quality control.

(a) NIH R01 DK61635, Enhanced CRAd for Esophageal Adenocarcinoma, Masato Yamamoto - Principal Investigator; b) **Co-Investigator**, 0.3 cal person mo effort (c) 08/01/03-07/31/08, \$1,175,002 (d) 06/01/05-05/31/06, \$336,673 (e) Objective was to develop promoter-driven, infectivity-enhanced CRADs with imaging capability as a therapeutic agent for esophageal carcinoma.

(a) NIH R21 AT001636, Nutrient Regulated Breast Cancer cell De-Adhesion, Robert W. Hardy - Principal Investigator; b) **Co-Investigator**, 0.6 cal person mo effort, (c) 2/01/05-1/31/08, \$300,000 (d) 02/01/07-1/31/08, \$181,875 (e) Objective was to examine whether the availability of the long chain fatty acid state modulates the ability of breast cancer cells to "de-adhere."

(a) NIH HHSN2-61200566001C [SBIR Phase II, RPF N44-CM-47041-19], New In Vitro Human Tumor-Endothelial Bioassay Systems; Raj K. Singh - Principal Investigator; (b) **Gene P. Siegal -Sub-contract Principal Investigator**, 0.12 cal person mo effort (c) 4/1/05-3/31/07 (d) 6/1/06-3/31/07 \$374,851 [\$35,000 subcontract]. (e) Objective was to further demonstrate the utility of a unique human extracellular matrix for use in 3-dimensional bioassay model systems.

(a) NIH R01 CA93796, Canine model for evaluating CRAd efficacy, **Gene P. Siegal - Principal Investigator**; b) Principal Investigator, 2.4 cal person mo effort; (c) 9/06/02-8/31/07, \$1,088,073 (d) 9/01/06-8/31/07, \$ 313,850 (e) Objective was to develop a conditionally replicating canine adenovirus model that can be used to study host-vector interactions for more effective antitumor oncolytic effects.

(a) DOD OC040010, A Double Selection Approach to Achieve Specific Expression of Toxin Genes for Ovarian Cancer Gene Therapy, David T. Curiel - Principal Investigator; b) **Co-Principal Investigator**, 0.3 cal person mo effort; (c) 11/01/04 – 10/31/07, \$559,890 (d) 11/01/06-10/30/07, \$181,000 (e) Objective was to develop an optimized gene delivery system for ovarian cancer by use of the best available transductional and transcriptional targeting strategies

(a) NIH R01 CA 98817, Gene Therapy for Prostate Cancer, Selvarangan Ponnazhagen - Principal Investigator; b) **Co-Investigator**, 0.3 cal person mo effort; (c) 04/01/03-03/31/08, \$1,312,750 (d) 02/01/07-03/31/08, \$258,100 (e) Objective was to determine the efficacy of sustained anti-angiogenic gene therapy both as a primary therapy and as an adjuvant therapy against recurrence in the TRAMP model system.

(a) NIH R21 AT00922, Nutrient Inhibition of Ras-Rho crosstalk, Robert W. Hardy - Principal Investigator; b) **Co-Investigator**, 0.6 cal person mo effort, (c) 9/30/06-8/31/08, \$300,000 (d) 09/30/07-08/31/08, \$181,250 (e) Objective was to examine key signal transduction molecules during neoplastic progression and to specifically confirm that sterate induced p190 Rho-Gap inhibition of Rho activity is responsible for cancer cell cycle arrest.

COMPLETED RESEARCH SUPPORT, continued

(a) NIH CA108118, New In Vitro 3D Functional Model of Tumorigenesis; Raj K. Singh - Principal Investigator; b) Gene P. Siegal, **Principal Investigator -Sub-Contract**, 5% effort, c) 9/1/07-8/31/09, \$213,000, d) 9/1/08-8/31/09, (\$35,000 Subcontract);(e) Objective was to demonstrate the utility of a unique extracellular matrix for use in 3-dimensional bioassaymodel systems.

(a) NIH RO1 CA 83821, Replicative Adenovirus with Enhanced Infectivity; David T. Curiel - Principal Investigator; (b) **Investigator**, 0.6 cal person mo effort (c) 1/10/00-8/31/09 (d) 7/01/08-8/31/09 \$254,867. (e) Objective was to demonstrate that improving the infectivity and specificity of conditionally replicative vectors will improve their therapeutic efficacy in murine models of selective human tumors.

(a) NIH R21 CA128222, Infectivity Enhanced Virotherapy for Ovarian Cancer, Ronald D. Alvarez -Principal Investigator; (b) **Investigator**, 0.9 cal person mo effort (c) 05/01/2007-04/30/2010, \$551,000. (d) 05/01/2009-04/30/2010, \$190,000 (e) Objective was to determine the biologic effects, immunologic response and clinical activity encountered with a novel RGD modified conditionally replicative adenovirus in patients with ovarian carcinoma.

(a) NIH RO1-CA108585, Armed Replicating Ad for Breast Cancer Bone Metastasis, Gene P. Siegal & Joanne T. Douglas Principal Investigators; (b) **Dual-Principal Investigator**, 0.36 cal person mo effort (c) 03/08/06-12/31/10, \$900,000 (d) 01/01/09-12/31/10 \$185,949. (e) Objective was to test the ability of novel armed CRAds to block the ability of breast carcinomas to metastasize to bone and to explore the mechanisms underlying this process.

(a) NIH RO1 EB01715, Analyses of In Situ and Explanted Orthopedic Implant Devices, Jack Lemmons - Principal Investigator; (b) **Co-Investigator**, 0.6 cal person mo effort (c) 12/1/05-11/30/10, \$1,000,000 (d) 12/1/09-11/30/10, \$155,634. (e) Objective was to analyse orthopedic devices that have failed following implantation in humans as to the biomechanical, biochemical and histologic reasons unlying this failure.

(a) NIH 1P30 DK079337, UAB-UCSD O'Brien Core Center for Acute Kidney Injury Research, Anupam Agarwal - Principal Investigator; (b) **Investigator**, 0.3 calendar mo effort (c) 9/01/08-11/30/11,\$4,227,998, Bioanalytical Research Core [Core C] (d) 09/01/10-11/30/11 (Core C Total Direct Costs:\$450,000);(e) The objective was to provide expert light microscopic interpretation of morphologic changes occurring in renal diseases supplemented by sophisticated special techniques in a cost-effective manner.

(a) NIH R01 DK081463, Improved Islet Cell Transplantation Outcome with AKT1, Hongju Wu - Principal Investigator; (b) Co-Investigator, 0.6 cal person mo effort, (c) 9/30/08-8/31/13, \$1,250,000 (d) 09/30/11-03/31/12, \$250,000 (e) Objective was to examine if the therapeutic outcome of islet cell transplantation can be improved by intrducing constitutely active Akt1 into insulin producing cells ex vivo.

(a) NIH 5P01 CA098912, Prostate Cancer Bone Metastasis: Biology and Targeting. Core C, Pathology and Laboratory Support Core", Leland Chung PI:/Majd Zayzafoon), Core PI, (b) **Investigator**, 0.24 calendar mo effort (c) 8/01/09 - 07/31/14, \$ d) 08/01/13-07/31/14 (Core C Total Direct Costs:\$222,415;(e) The object of Core C was to provide pathology and laboratory support services for all research projects. It makes available immunohistochemistry workup of antibodies and performs immunostaining on biomarkers of mechanistic, prognostic or predictive significance.

(a) NIH 1R01 HL107585, AMPK Activation and Acute Lung Injury, Jaroslaw W. Zmijewski PI., (b) **Co-Investigator**, 2 % effort (c) 02/01/12 - 01/31/16, \$1,465,000 d) 02/01/15-01/31/16;\$329,625. e) The object was to determine the role of activated AMPK in inhibiting nuclear translocation of NF-kB and the role of activated AMPKin regulation of mTORC1 function.

COMPLETED INSTITUTIONAL GRANT APPLICATION PARTICIPANT

(a) NIH 3U54 CA 118948-10S2, Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Center Partnership – Administrative Supplement (54) to Support Development of PDXs at UAB, Upender Manne – Principal Investigator; b) **Co-Investigator**, 0.03 cal person mo effort; (c) 09/01/15-08/31/16, \$199,999 (d) 09/01/15-08/31/15, \$199,999 (e) Objective was to support acquisition of biological samples from active cancer patients with gastrointestinal malignancies at the University of Alabama at Birmingham for development of a patient-derived xenograft model (PDX) repository.

NIH, CA 16086, Cancer Center Support Grant. J.S. Pagano - Principal Investigator, no salary support, \$1,440,834. 8/1/89-7/31/94. Renewal of Lineberger/ University of North Carolina Cancer Research Center. Member of the Chemical Carcinogenesis Core Program.

COMPLETED INSTITUTIONAL GRANT APPLICATION PARTICIPANT continued

NIH, T32-ES07017, Environmental Pathology, (Renewal) Joe W. Grisham - Principal Investigator, no salary support, \$544,038, 7/1/90-6/30/95. Predoctoral and postdoctoral training grant. Training was directed toward developing a scientific background and laboratory experience focused on environmentally induced disease. Postdoctoral Fellow - Yvette Miller.

NIH, Short-Term Training: Students in Health Professional Schools. (Renewal) Arthur L. Finn - Principal Investigator, no salary support, \$64,416. 5/1/90-4/30/95. Objective was to fund a program encouraging exceptional students to pursue Medical Research careers by providing support for short-term, full time research in 17 disciplines including oncologic pathology. Trainees - Eric W. Miller, John Kim, Elton T. Smith.

NIH, 2 S03 RR03120-05, Minority High School Student Research Apprenticeship Program, (Renewal) Marion Phillips - Principal Investigator, no salary support, \$3,000. 3/1/84-2/29/90. Objective was to give academically gifted minority students an experience in a basic science research laboratory in the hope that this will be a motivating force in their choosing a career in this area. Trainees - Brett D. Hyman, Sherdenia Jones, Maria Tymoschenko, Corliss White, Min Kim, Trilane Massey, Ursula Eatmon.

NIH, Basic Mechanisms of Viral and Chemical Carcinogenesis (Renewal). Joseph S. Pagano - Principal Investigator, no salary support, \$336,464, 7/1/90-6/30/96. Objective was to provide continuing support for an organized program of interdisciplinary training for basic research that is likely to lead to insights into fundamental mechanisms of cancer.

NSF 88-28 REV, Research experiences for undergraduates at the University of North Carolina at Chapel Hill. Howard M. Fried-Principal Investigator, \$127,288. 4/1/90-3/31/93. Objective was to provide a research experience for undergraduates with faculty members at the University who are members of the Program in Molecular Biology and Biotechnology. Trainee - Joyce Manu.

NIH, CA 47545, Cancer and Leukemia Group B, George A. Omura - Principal Investigator, 5%, 4/1/88-3/31/93, \$154,858. Objective was to participate in Phase II and Phase III cooperative clinical trials involving surgery, radiotherapy, cytotoxic drugs, and biologic response modifiers against hematopoietic and solid tumors in adults.

NIH, Medical Scientist Training Program, Frank M. Griffin, Jr. - Principal Investigator, no salary support, \$283,376, 8/1/92-7/31/97. Objective was to provide an organized clinical and research training program leading to M.D. and Ph.D. degrees for individuals interested in preparing for a career in academic medicine.

Clinical Oncology Research Career Development Program, Donald M. Miller - Principal Investigator, no salary support, 1/1/93-12/30/98. Objective was to train senior fellows and junior faculty to do laboratory based clinical research in a cancer related area and address the national concern for providing the proper institutional research environments for attracting and retaining physicians in clinical oncology research.

COMPLETED INSTITUTIONAL GRANT APPLICATION PARTICIPANT continued

NIH T32 CA75930-04; Cancer Gene Therapy Training Program, David T. Curiel - Principal Investigator; Mentor, no salary support [% effort], 2/24/98-1/31/03, \$119,184; Objective was to provide a training experience for postdoctoral fellows in cancer gene therapy and includes intrabody targeted knockout of oncogenes, genetic anti-angiogenesis models, and model system development for analysis of conditionally replicative adenoviruses.

NIH/NIAMS T32 , Comprehensive Training Grant in Bone Biology and Disease Jay M. McDonald - Principal Investigator, Mentor, no salary support [%/effort], \$544,038, 5/1/02-4/30/07. Predoctoral and postdoctoral training grant. Training was directed toward developing a scientific background and laboratory experience focused on metabolic bone disease.

NIH T32 CA75930-06; Cancer Gene Therapy Training Program, David T. Curiel - Principal Investigator; Mentor, no salary support [%/effort], 2/24/98-7/31/09, \$139,861; Objective was to provide a training experience for postdoctoral fellows in cancer gene therapy and includes targeted knockout of oncogenes, genetic anti-angiogenesis models, and model system development for analysis of conditionally replicative adenoviruses. Postdoctoral Trainee - Anton V. Borovjagin, Ph.D.

NIH/NIAMS T32, Comprehensive Training Grant in Bone Biology and Disease Majd Zayzafoon - Principal Investigator, Mentor, no salary support [%/effort], \$600,000, 5/1/07-4/30/12. Predoctoral and postdoctoral training grant. Training was directed toward developing a scientific background and laboratory experience focused on metabolic bone disease.

INVITED LECTURES & SYMPOSIA

1. National Cancer Institute, Bethesda, Maryland; "Preparation of interferon messenger RNAs", November 1980.
2. University of Miami School of Medicine, Miami, Florida; "Interferon, metastasis and other trivial matters", September 18, 1981.
3. George Washington University Medical Center, Washington, D.C.; "Effects of interferon pretreatment on Ewing's sarcoma cells in vitro", November 13, 1981.
4. University of Pennsylvania College of Medicine, Philadelphia, Pennsylvania; "Effect of interferon pretreatment on Ewing's sarcoma cells in vitro", December 18, 1981.
5. University of Texas Medical Branch, Galveston, Texas; "Interferon, metastasis and other trivial matters", December 21, 1981.
6. University of North Carolina School of Medicine, Chapel Hill, North Carolina; "Interferon, metastasis and other trivial matters", April 5, 1982.
7. Temple University School of Medicine, Philadelphia, Pennsylvania; "Interferon, metastasis and other trivial matters", April 12, 1982.
8. North Carolina Society of Histotechnologists, Chapel Hill, North Carolina; "Immunohistochemical studies using components of the basement membrane in diagnostic and experimental pathology", September 22, 1984.
9. Pembroke State University, Pembroke, North Carolina; "The use of immunohistochemical techniques in diagnostic and experimental pathology", February 8, 1985.
10. State University of New York at Stony Brook, Stony Brook, New York; "In vitro and in vivo inhibition of human osteosarcoma with synthetic amidine inhibitors of arginine directed esteroproteases" and Surgical Pathology Slide Seminar, June 26, 1986.
11. United States-Canadian Academy of Pathology, Specialty Conference in Bone and Soft Tissue Pathology, Chicago, Illinois; "Ewing's sarcoma in the bones of the head and neck", March 12, 1987.
12. University of North Carolina Lineberger Cancer Research Center, Chapel Hill, North Carolina; "Tumor cell invasion - In vitro quantitation and inhibition", Sept. 2, 1987.

13. University of Minnesota School of Medicine, Minneapolis, Minnesota; Grand Rounds - "Inhibitors of tumor invasion", October 21, 1987.
14. North Carolina Society of Histotechnologists, Wilmington, North Carolina: "The heterogeneity of S-100 protein in human tissues and the disease processes to which they are susceptible", April 29, 1988.
15. Ninth Ross Research Conference on Medical Issues - Role of Nutrients in Cancer Treatment, Tempe, Arizona; "The effect of selected amino acids on tumor invasion", December 11, 1989.
16. University of Texas Medical Branch, Galveston, Texas; "Inhibition and enhancement of tumor cell invasion", January 15-16, 1990.
17. University of Alabama at Birmingham School of Medicine, Birmingham, AL; "Inhibition and enhancement of tumor cell invasion", March 19-20, 1990.
18. Aspen Conference on Pediatric Pathology - Solid Tumors in Childhood, Aspen, CO; "Tumors of muscle in childhood.", "Tumors of bone in childhood" and Surgical Pathology Slide Seminar, August 6-10, 1990.
19. Dalian Medical College, Dalian, Peoples Republic of China, "Development of model systems to study human disease: From the whole animal to the molecular" and "Newer concepts in neoplasia - An introduction", October 3-5, 1994.
20. International Academy of Pathology, Crown Colony of Hong Kong, Bone and Soft Tissue Specialty Panel, October 12, 1994.
21. Gynecologic Oncology Group (GOG) Basic Translational Research Retreat, Chantilly, VA, April 20-23, 1995.
22. United States-Canadian Academy of Pathology, Specialty Conference in Bone and Soft Tissue Pathology, Washington, D.C. "Surface Condromyxoid Fibroma of Bone", March 24, 1996.
23. Memorial Sloan Kettering Cancer Center, Department of Pathology, New York, NY "Pathology-Radiology Dyssynchrony in the Diagnosis of Tumors of Bone, April 7, 1997.
24. International Skeletal Society Closed Meeting, Santa Fe, New Mexico, "Swollen toe in a 13 year-old-girl" (Extraosseous Ewing's Sarcoma), with M.J. Pitt, September 10, 1997.
25. Alabama Association of Pathologists Fall Meeting, Birmingham, Alabama, Program Chair and "Update on Tumors of Bone" with M.J. Pitt, October 4, 1997.
26. UAB First Annual Update in Diagnostic Pathology, Asheville, North Carolina, Course Director and "Bone Tumors: An Update", November 7-9, 1997.
27. United States-Canadian Academy of Pathology, Specialty Conference in Surgical Pathology, Boston, MA "Metastatic Paraganglioma", March 3, 1998.
28. International Skeletal Society Closed Meeting, Dublin, Ireland, "Osteosarcoma in a background of fibrous dysplasia and soft tissue myxoma (Mazabraud's Disease)", with M.J. Pitt, September 7, 1998.
29. International Skeletal Society 25th Annual Refresher Course, Dublin, Ireland, Session Moderator and "The Value of Immunohistochemistry of in the Diagnosis of Selected Bone Neoplasms", September 11, 1998.
30. UAB Second Annual Update in Diagnostic Pathology, Savannah, Georgia, Course Director, October, 9-11, 1998.
31. Azienda Ospedaliera di Bologna, Anatomia Patologica Malpighi and the Rizzoli Istituto, Bologna, Italy "Pathology-Radiology Dyssynchrony in the Diagnosis of Tumors of Bone, October 25-28, 1998.
32. University of Kansas School of Medicine, Kansas City, Kansas, "Gene Therapy for Gynecologic Malignancies - Hope Among the Hype, November 11-13, 1998.
33. United States-Canadian Academy of Pathology, Specialty Conference in Surgical Pathology, San Francisco, CA "Osteosarcoma in a background of fibrous dysplasia and soft tissue myxoma (Mazabraud's Disease)", March, 1999.

34. University of Oklahoma School of Medicine, Oklahoma City, OK, "Challenges for academic departments of Pathology in the next decade", June 10, 1999.
35. Medical College of Ohio at Toledo, Toledo, Ohio, "Gene Therapy of Solid Tumors: Ovarian Carcinoma as the Paradigm, July 21-23, 1999.
36. International Skeletal Society Closed Meeting, Seattle, Washington., with I. W. McCall, Session VIII Moderator - "Hematopoietic Malignancies of Bone", August 17 1999.
37. International Skeletal Society 26th Annual Refresher Course, Seattle, Washington, "Immunohistochemistry of Metastatic Bone Tumors", August 20, 1999.
38. UAB Third Annual Update in Diagnostic Pathology, Hilton Head Island, South Carolina, Course Director, September, 24-26, 1999.
39. Oregon Health Sciences University, Portland, OR, "Recent Advances in the Diagnosis of Bone Neoplasms - A Case Study Approach", August 10, 2000.
40. International Skeletal Society Closed Meeting, Barcelona, Spain, "Hemangiopericytoma of Bone", with M.J. Pitt, K. Jaffe, and K. Klemm, September 11, 2000.
41. UAB Fourth Annual Update in Diagnostic Pathology, Calloway Gardens, Georgia, Course Director, November,2-5, 2000.
42. University of Virginia Health System, Charlottesville, Virginia, "Adenoviral Based Gene Therapy Strategies For Ovarian Carcinoma - Hope or Hype", November 20, 2000.
43. Louisiana State University Medical Center, Shreveport, Louisiana, "Adenoviral Based Gene Therapy Strategies For Ovarian Carcinoma - Hope or Hype", February 8, 2001.
44. State University of New York at Stony Brook, Stony Brook, New York; "Adenoviral Based Gene Therapy Strategies For Ovarian Carcinoma - Hope or Hype", February 14, 2001.
45. Dartmouth Medical School, Hanover, New Hampshire; "Adenoviral Based Gene Therapy Strategies For Ovarian Carcinoma - Hope or Hype", May 07, 2001.
46. International Skeletal Society Closed Meeting, Quebec City, Canada, "Transplantation of high grade B lineage lymphoma" with M.J. Pitt, C.M. Listinsky, V.V.B. Reddy, and B.A. Julian, and "Desmoplastic fibroma of bone" with, M.J. Pitt, and K. Klemm, September 3-4, 2001.
47. University of Texas Health Science Center San Antonio "Advances in Human Cancer Gene Therapy", San Antonio, Texas, October 19, 2001.
48. UAB Fifth Annual Update in Diagnostic Pathology, Course Director and "Advances in Human Cancer Gene Therapy", Hilton Head, Island, S.C., Texas, October 25-28, 2001.
49. New York Pathological Society, "Sarcoma arising in Fibrous Dysplasia of Bone: From Macropathology to Molecular Biology" Presidential Symposium, New York, New York, June 1, 2002.
50. University of Washington, Seattle, Washington, "Sarcoma arising in Fibrous Dysplasia of Bone: From Macropathology to Molecular Biology", July 18, 2002.
51. International Skeletal Society Closed Meeting, Geneva, Switzerland, with Daniel Vanel, Session II Co-Moderator - "Miscellaneous Tumors of Bone""Malignant fibrous histiocytoma, giant cell variant mimicking inflammatory myofibroblastic tumor" with M.J. Pitt., September 23-24, 2002.
52. XXIVth International Academy of Pathology, Amsterdam, The Netherlands, "Sarcoma Arising in Fibrous Dysplasia of Bone: From Macropathology to Molecular Biology" and Co-Moderator with Cesar Moran- "Slides, Scans and Blots: The Use of Modern Methods in Diagnostic Surgical Pathology - Illustrative Cases", October 8, 2002.
53. UAB Sixth Annual Update in Diagnostic Pathology, Sandestin, Florida, Course Director, November 7-10, 2002.
54. Boston University Medical School, Boston, Massachusetts; "Adenoviral Based Gene Therapy Strategies For Ovarian Carcinoma - Hope or Hype?", November 22, 2002.

55. 75th United States-Canadian Academy of Pathology - American Society for Investigative Pathology Companion Meeting, Washington, D.C., Co-Moderator with Elizabeth R. Unger- "Early Cancer Detection: Integrating Morphology and Molecules", March 23, 2003.
56. University of North Carolina School of Medicine, Chapel Hill, North Carolina; "Gene Therapy Strategies to Enhance the Oncolytic Capacities of Adenoviral Vectors and Targeting of Ovarian Cancer", April 3, 2003.
57. Duke University School of Medicine, Durham, North Carolina; "Gene Therapy Strategies to Enhance the Oncolytic Capacities of Adenoviral Vectors and Targeting of Ovarian Cancer", April 4, 2003.
58. University of North Carolina School of Medicine, Chapel Hill, North Carolina; Updates in Surgical Pathology and Cytopathology for the Practicing Pathologist [The 2nd Annual Walter R. Benson Lecture] -"Musculoskeletal Pathology Comes of Age: From Macropathology to Molecular Biology" April 5, 2003.
59. Scripps Research Institute, Cancer Affinity Group, Scripps Cancer Center, La Jolla, California; "Gene Therapy Strategies to Enhance the Oncolytic Capacities of Adenoviral Vectors and Targeting of Ovarian Cancer", May 6, 2003.
60. University of Illinois College of Medicine at Peoria, Program of Cancer Biology, Peoria, Illinois; "Gene Therapy Strategies to Enhance the Oncolytic Capacities of Adenoviral Vectors and Targeting of Ovarian Cancer", May 30, 2003.
61. West Virginia University, Morgantown, West Virginia [The 3rd Annual Dr. Milton S. Hales Lecture] - "Gene Therapy Strategies to Enhance the Oncolytic Capacities of Adenoviral Vectors and Targeting of Ovarian Cancer", June 9-10, 2003.
62. Case Western Reserve University, Institute of Pathology, Cleveland, Ohio, "Gene Therapy Strategies to Enhance the Oncolytic Capacities of Adenoviral Vectors and Targeting of Ovarian Cancer", June 23, 2003.
63. Case Western Reserve University, Institute of Pathology, Cleveland, Ohio, [The 1st Annual Carter/Makley Lecture] -"Musculoskeletal Pathology Comes of Age: From Macropathology to Molecular Biology" June 23, 2003.
64. University of Arkansas for Medical Sciences, Little Rock, Arkansas, "Gene Therapy Strategies to Enhance the Oncolytic Capacities of Adenoviral Vectors and Targeting of Ovarian Cancer", August 18, 2003.
65. International Skeletal Society Closed Meeting, San Francisco, CA, "Mass in the right great toe of a 41 year old man (Superficial acral fibromyxoma)" with M.J. Pitt, C.M. and K.A. Jaffe, September 15-16, 2003.
66. International Skeletal Society 30th Annual Refresher Radiology Course (Open Meeting), San Francisco, CA, "Sarcomatous transformation in fibrous dysplasia", September 19, 2003.
67. International Skeletal Society 1st Annual Refresher Pathology Course, The Pathology of Non-neoplastic & Neoplastic Conditions of the Skeletal Tissues, San Francisco, CA, "Small Cell Tumors of Bone", with M.Kradsdorf, September 20, 2003.
68. UAB Seventh Annual Update in Diagnostic Pathology, Sandestin, Florida, Course Director, October 23-26, 2003.
69. University of Central Florida, BioMolecular Science Center , Orlando, Florida, "Gene Therapy Strategies to Enhance the Oncolytic Capacities of Adenoviral Vectors and Targeting of Ovarian Cancer", December 4, 2003.
70. University of Utah School of Medicine, Salt Lake City, Utah, "Gene Therapy Strategies to Enhance the Oncolytic Capacities of Adenoviral Vectors and Targeting of Human Cancer", February 26, 2004.
71. NIH/COG Osteosarcoma Biology Meeting, Chicago, Illinois, "Developing Canine Conditionally Replicating Adenovirus Vectors for Osteosarcoma Oncolytic Virotherapy" and "The Center for Musculoskeletal Disorders: Histomorphometry & Molecular Analysis Core" February 7, 2004.

72. 93rd United States-Canadian Academy of Pathology, Specialty Conference in Bone and Soft Tissue Pathology, Vancouver; B.C. "Osteosarcomatous transformation in fibrous dysplasia", March 9, 2004 and Co-Moderator with Mehrad Nadji- "Pathobiology", March 8, 2004.
73. New York University Medical Center, New York, New York, "Gene Therapy Strategies to Enhance the Oncolytic Capacities of Adenoviral Vectors and Targeting of Human Cancer", September 13, 2004.
74. International Skeletal Society Closed Meeting, St. Julian, Malta, "Subcutaneous Thumb Mass (Solid Alveolar Rhabdomyosarcoma)" with K.A. Jaffe, October 4-5, 2004.
75. International Skeletal Society 2 nd Annual Refresher Pathology Course, The Pathology of Non-neoplastic & Neoplastic Conditions of the Skeletal Tissues, St. Julian, Malta, "Small Cell Tumors of Bone", with M.Kradsdorf, October 7, 2004.
76. XXVth International Academy of Pathology, Brisbane, Australia, "pain and swelling of the 'upper shin' in a 12 year old boy " (Juvenile Juxtacortical Chondromyxoid Fibroma) [Difficult Cases in Surgical Pathology (Arthur Purdy Stout Society of Surgical Pathologists)], with Darshana Jhala, and Susan Coventry, October 13, 2004.
77. XXVth International Academy of Pathology, Brisbane, Australia, Bone Pathology: Chondroid Tumours: "Case 10 - Chondromyxoid Fibroma" and "Molecular Aspects of Chondroid Tumors: A Brief Review", with Walter C. Bell, October 14, 2004.
78. UAB Eighth Annual Update in Diagnostic Pathology, Biloxi, Mississippi, Course Director, November 4-7, 2004.
79. St. Vincent's Foundation and UAB, Symposium in Oral Maxillofacial & Head and Neck Pathology, Birmingham, Alabama, Moderator, March 5, 2005.
80. National Consensus Conference on the AFIP Tissue Repository, Participant representing both the American Society of Clinical Pathology and the Stout Society of Surgical Pathologists, Washington, D.C., August 30-31, 2005.
81. International Skeletal Society Closed Meeting, Singapore, Co-Moderator with Mark Murphey "Small Round Cell Tumors and Miscellaneous Lesions", September 27, 2005.
82. International Skeletal Society 3 rd Annual Refresher Pathology Course, Singapore, The Pathology of Non-neoplastic & Neoplastic Conditions of the Skeletal Tissues, "Small Cell Tumors of Bone", with M. Kradsdorf, September 29th, 2005.
83. International Skeletal Society .32nd Annual Refresher Radiology Course (Open Meeting), Singapore, "Molecular Aspects of Chondroid Tumors Made Easy"and Co-Moderator with Mark D. Murphey - "Soft Tissue Tumors", September 30, 2005.
84. American Society of Clinical Pathology 3rd Annual Meeting, Seattle, Washington, "Reducing Anxiety in Diagnosing Bone Lesions" with Michael J. Klein", October 8, 2005.
85. American Society of Clinical Pathology 3rd Annual Meeting, Seattle, Washington, "Cancer Gene Therapy - Where are we headed? Ovarian Carcinoma as the Paradigm", October 8, 2005.
86. American Society of Clinical Pathology 3rd Annual Meeting, Co-Moderator with Mary Ann Sens, "ASCP Fellow Council Town Hall", Seattle, Washington, October 9, 2005 and Panelist with David H. Dail, Allen M. Gown, Barabara J. McKenna, Robert E. Petras and others, "How to get a job in the real world: The transition from resident to pathologist", October 10, 2005.
87. UAB Nineth Annual Update in Diagnostic Pathology, Sandestin, Florida, Course Director, November 3-6, 2005.
88. Kosair Childrens' Hospita/ University of Louisville, Louisville, Kentucky, "Bone Pathology in the New Millennium: Mechanisms and Molecular Biology" and "Small Cell Tumors of Bone: An Introduction", May 10-13, 2006.
89. University of New Mexico, Albuquerque, New Mexico; "A Decade Long Odyssey To Develop Adenoviral Based Ovarian Cancer Gene Therapy Strategies for Patients", August 10, 2006.

90. International Skeletal Society Closed Meeting, Vancouver, Canada, "Metastatic clear cell meningioma mimicing clear cell chondrosarcoma of bone", with R. Lopez-Ben, P. Lander, and H. Siegel, September 12, 2006.
91. International Skeletal Society Closed Meeting, Vancouver, Canada, Co-Moderator with Daniel I. Rosenthal "Primary Soft Tissue Tumors in Bone & Primary Bone Tumors in Soft Tissues", September 12, 2006.
92. International Skeletal Society 4th Annual Refresher Pathology Course, Vancouver, Canada, The Pathology of Non-neoplastic & Neoplastic Conditions of the Skeletal Tissues, "Small Cell Tumors of Bone", with M. J.Kradsdorf, September 14th, 2006.
93. International Skeletal Society. 33rd Annual Refresher Radiology Course (Open Meeting), Vancouver, Canada, "Sarcoma in Fibrous Dysplasia", September 14, 2006.
94. XXIVth International Academy of Pathology, Montreal, Canada, Molecular Diagnosis in Pathology: The Bridge to the 21st Century, "Molecular Approaches to the Diagnosis of Bone Tumors", September 17, 2006.
95. Association of Indian Pathologists of North America Companion meeting at the American Society of Clinical Pathology 4th Annual Meeting, Las Vegas, Nevada, "Fibrous Dysplasia: From Clinical Presentation to Its Mechanism of Pathogenesis", October 18, 2006.
96. American Society of Clinical Pathology 4th Annual Meeting, Las Vegas, Nevada, "Reducing Anxiety in Diagnosing Bone Lesions" with Michael J. Klein", October 19, 2006.
97. American Society of Clinical Pathology 4th Annual Meeting, Las Vegas, Nevada, "Securing and Retaining a Great Academic Job" October 19, 2006.
98. Ohio State University, Columbus, Ohio; "A Decade Long Odyssey To Develop Adenoviral Based Ovarian Cancer Gene Therapy Strategies for Patients", December 20, 2006.
99. 96th United States-Canadian Academy of Pathology, Specialty Conference in Bone and Soft Tissue Pathology, San Diego; CA. "Bizzare Parosteal Osteochondromatous Proliferation [Nora's Lesion] of a long bone", March 28, 2007.
100. University of Nebraska, Omaha; NE "A Decade Long Odyssey To Develop Adenoviral Based Ovarian Cancer Gene Therapy Strategies for Patients" and "Unknown Bone Tumor Conference", May 3, 2007.
101. 2007 Tristate Pathology Conference, Point Clear, Alabama, "Fibrous Dysplasia: From Clinical Presentation to Its Mechanism of Pathogenesis", May 6, 2007.
102. Methodist Hospital, Houston - Weill Cornell Medical College, Houston, Texas, "Fibrous Dysplasia: From Clinical Presentation to Its Mechanism of Pathogenesis", May 9, 2007.
103. Baylor College of Medicine, Houston, Texas, "A Decade Long Odyssey To Develop Adenoviral Based Ovarian Cancer Gene Therapy Strategies for Patients" and "Unknown Bone Tumor Conference", May 10, 2007.
104. University of Texas - M.D.Anderson Cancer Center, Houston, Texas, "The Pathology of the 21st Century - Integrating Diagnostic and Molecular Pathology Conference, "Molecular Pathology of Cartilaginous Neoplasia", May 11, 2007.
105. International Skeletal Society 5th Annual Refresher Pathology Course, Budapest, Hungary, The Pathology of Non-neoplastic & Neoplastic Conditions of the Skeletal Tissues, "Small Cell Tumors of Bone", with M. J.Kradsdorf, October 10th, 2007.
106. International Skeletal Society Closed Meeting, Budapest, Hungary, "A 12 year-old girl with a femoral lesion: Aggressive Osteoblastoma", with M.J. Pitt, October 9, 2007.
107. American Society of Clinical Pathology 5th Annual Meeting, New Orleans, Louisiana, "Securing and Retaining a Great Academic Job" October 20, 2007.
108. New York University Medical Center, New York, New York, "Fibrous Dysplasia: From Clinical Presentation to Its Mechanism of Pathogenesis", December 17, 2007.

109. Medical College of New York, Valhalla, New York; " A Decade Long Odyssey To Develop Adenoviral Based Ovarian Cancer Gene Therapy Strategies for Patients" , December 18, 2007.
110. American Society of Clinical Pathology - Weekend of Pathology, Chicago, Illinois, "Reducing Anxiety in Diagnosing Bone Lesions" with Michael J. Klein", June 20, 2008.
111. University of Iowa - Iowa City, Iowa, "Fibrous Dysplasia: From Clinical Presentation to Its Mechanism of Pathogenesis" and Slide Seminar "Tumors of Teens", September 25, 2008.
112. American Society of Clinical Pathology 6th Annual Meeting, Baltimore, Maryland, "Diagnosing Bone Tumors Without Ever Looking at the Slides" October 17, 2008.
113. "Phi Delta Epsilon International Medical Fraternity Regional Leadership Conference, Louisville, Kentucky, "Selecting the Right Residency: Pathology as the Paradigm" and "Who do medical schools really want to attract", January 24, 2009.
114. American Society of Clinical Pathology - Weekend of Pathology, Montreal, Quebec "Reducing Anxiety in Diagnosing Bone Lesions" with Michael J. Klein", June 13, 2009.
115. ASCP Pathology Update: State-of-the-Art Surgical Pathology with Molecular Diagnostic Applications, Vancouver, British Columbia, Canada, "Small Cell Tumors" and "Molecular Pathology of Cartilaginous Neoplasia" July 20, 2009.
116. International Skeletal Society Closed Meeting, Washington, D.C., "An elderly gentleman with a C2-C4 vertebral lesion and disc involvement: Paget's Disease" with P. Lander, M.J.Klein & R. Lopez-Ben, August 31, 2009.
117. International Skeletal Society 50th Annual Imaging Refresher Course, Washington D.C., Tumors of Bone and Soft Tissue, "Controversies in Cartilaginous Tumors", with J.L.Boem, September 2, 2009.
118. Brown University - Providence, Rhode Island, "Fibrous Dysplasia: From Clinical Presentation to Its Mechanism of Pathogenesis" and Slide Seminar "Tumors of Teens", October 22, 2009.
119. American Society of Clinical Pathology 7th Annual Meeting, Chicago, IL, The Arthur Purdy Stout Keynote Address: "Fibrous Dysplasia of Bone: Paradigm Shifting in the Search for its Pathogenesis"and Diagnosing Bone Tumors Without Ever Looking at the Slides", October 31, 2009.
120. 2010 Tristate Pathology Conference, Hoover, Alabama, "Molecular Pathology of Cartilaginous Neoplasia", April 24, 2010.
121. "University of North Carolina at Chapel Hill - Chapel Hill, North Carolina, "Molecular Biology of Cartilage Neoplasia with a side trip to Borderline Lesions". July 13, 2010.
122. International Skeletal Society 51th Annual Imaging Refresher Course, Athens, Greece, "Molecular Genetics in Imaging of Musculoskeletal Disease - End or Dawn of a New Era" with Francis Gannon and "Fibrous Dysplasia: Pathogenesis to Presentation", October 1, 2010.
123. American Society of Clinical Pathology 8th Annual Meeting, San Francisco, CA., The 2010 Anatomic Pathology Slide Seminar:: Tumors of Bone – Common Problems and Exotic Variants, October 31, 2010.
124. American Society of Clinical Pathology - Weekend of Pathology, Las Vegas, Nevada "Reducing Anxiety in Diagnosing Bone Lesions" with Michael J. Klein", February 10, 2011.
125. United States-Canadian Academy of Pathology, Washington; D.C. , Special Course in Careers in Investigative Pathology: "Ethics in Pathology Publishing: Giving Credit where Credit is Due" March 1, 2011.
126. Second Sino-American Symposium on Clinical & Translational Science. Shanghai, China, A Common Sense Approach to the Recognition and Diagnosing of Tumor and Tumor-Like Conditions of Bone, June 25, 2011.
127. College of American Pathologists Annual Meeting, CAP '11, Grapevine, Texas.; "Narrowing the Differential Diagnoses of Bone Lesions Seen in Everyday Practice" with Michael Klein, September 13, 2011 and "Bone Tumors: The Conventional and the Bizarre", September 14, 2011.

128. International Skeletal Society Closed Meeting, San Diego, Co-Moderator with J. Bencardino “Very Unusual Bone Tumors”, September 19, 2011.
129. American Society of Clinical Pathology 8th Annual Meeting, Las Vegas, Nevada, “Molecular Pathology of Cartilaginous Neoplasia”, October 20, 2011.
130. International Skeletal Society Closed Meeting, Rome, Italy, “A 23 year old woman with a Right Femoral Neck Pathologic Fracture” with S. Wei, P. Lander, & H. Siegel, September 4, 2012.
131. Tissue Science-2012, Chicago, Illinois, Organizing Committee Member “Observational Biology and Its Use in Developing a Common Sense Approach to the Diagnosing of Tumor and Tumor-Like Conditions of Bone, October 10, 2012.
132. American Society of Clinical Pathology 9th Annual Meeting, Boston, Massachusettes, “Small Cell Tumors of Bone: from Clinical Demographics to Molecular Pathology” with S. Wei and “Management & Leadership in Academic Pathology”, October 20 -21, 2012.
133. Second World Congress on Cell Science & Stem Cell Research, San Antonio, Texas, “Observational Biology and Its Use in Developing a Common Sense Approach to the Diagnosing of Tumor and Tumor-Like Conditions of Bone”, November 12, 2012.
134. Louisiana State University, New Orleans, LA, Emma Sadler Moss Lecturer, “Bone Neoplasia in the 21st Century - Using Fibrous Dysplasia as the Model for How Far We’ve Come”, “Adenoviral Based Gene Therapy & Oncotherapy: Are We Anywhere?” and “Diagnostic Challenges: It’s not Just the Pathologists Who are Bizarre!”, November 26-28, 2012.
135. Florida Society of Pathologists 2013 Summer Anatomic Pathology Conference, Naples, Florida, “Small Cell Tumors of Bone: From Clinical Demographics to Molecular Pathology” and “Bone Neoplasia in the 21st Century – Using Fibrous Dysplasia as the Model for How Far We’ve Come”: July 13, 2013.
136. Seventh International Congress on Peer Review and Biomedical Publication, Chicago, Illinois, “Laboratory Investigation Editorial Internships: Laboratory Investigation Editorial Internships: Peer Review Opportunities for Young Investigators”, September 9, 2013.
137. University of Utah School of Medicine, Salt Lake City, Utah, “Bone Neoplasia in the 21st Century - Using Fibrous Dysplasia as the Model for How Far We’ve Come”, September 26, 2013.
138. American Society of Clinical Pathology 10th Annual Meeting, Chicago, Illinois, “Small Cell Tumors of Bone: From Clinical Demographics to Molecular Pathology” with S. Wei and “Management & Leadership in Academic Pathology, October 20-21, 2012.
139. International Skeletal Society Closed Meeting, Philadelphia, PA, “A 51 year old woman with an L3 vertebral body lesion” (Therapy-related myeloid sarcoma) with V. Reddy, D. Peker, J.P. Smith, P.R. Chapman, M.B. Frazier and S. Wei, October 1, 2013.
140. College of American Pathologists Annual Meeting, CAP ‘13, Orlando, Florida, “Narrowing the Differential Diagnoses of Bone Lesions Seen in Everyday Practice” with Michael Klein, October 18, 2013 and “Bone Tumors: The Conventional and the Bizarre”, October 19, 2013.
141. Second International Congress of the Venezuelan Association for the Study of Musculoskeletal Tumors (Asociacion Venezolana Para El Estudio De Tumores Musculo-Esqueleticos (AVETME), Caracas Venezuela, "Round Cell Sarcomas of Soft Tissue and Bone - Parts I - IV", November 14th - 15th, 2013.
142. International Society of Bone and Soft Tissue Pathology, USCAP Companion Meeting on “Topical Advances and Applications in Bone Pathology”, San Diego, California “The Disappearing World of Reactive Lesions of Bone”, March 2, 2014.
143. University of Louisville, Louisville, Kentucky “Bone Neoplasia in the 21st Century – Using Fibrous Dysplasia as the Model for How Far We’ve Come” and “The Disappearing World of Reactive Lesions of Bone”, September 12, 2014.

144. College of American Pathologists Annual Meeting, CAP '14, Chicago, Illinois: "Bone tumors: Morphology meets Molecular Pathology" with Shi Wei, September 7, 2014 and "Bone Tumors: The Conventional and the Bizarre". September 8, 2014.
145. New York University, New York, New York: "Bone Neoplasia in the 21st Century – Using Fibrous Dysplasia as the Model for How Far We've Come". December 22, 2014.
146. State University of New York at Buffalo, Buffalo, New York: "Bone Neoplasia in the 21st Century- Using Fibrous Dysplasia as the Model for How Far We've Come" and an Unknown Bone Tumor Conference, June 9, 2015.
147. Santa Monica College, Santa Monica, California. "Losers can sometimes be winners – a very personal journey in academia – with a side trip to a world of high paying, societally important and deeply rewarding jobs in health care which you never heard of", October 29, 2015. (Accepted)
148. Baylor University Medical Center at Dallas, Dallas, Texas, "Manny 'Reactive Lesions' of Bone are Probably Neoplasms", January 14, 2016.
149. 95th Annual Meeting of the Texas Society of Pathologists (TSP) – Vernie A. Stembridge Lecture, "Bone Neoplasia in the 21st Century – Using Fibrous Dysplasia as the Model for How Far We've Come", January 15, 2016.
150. Temple University Medical Center, Philadelphia, Pennsylvania "Many 'Reactive Lesions' of Bone are Probably Neoplasms", December 6, 2016. (Accepted)
151. University of Mississippi Medical Center, Jackson, Mississippi – "Many 'Reactive Lesions' of Bone are Probably Neoplasms" and Residents' Unknow Case Conference, January 20, 2017
152. International Society of Bone and Soft Tissue Pathology, USCAP Companion Meeting on "Tumor Syndromes in Bone and Soft Tissue Pathology", San Antonio, Texas, "The Pathologies Associated with GNAS Mutations", March 5, 2017.

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6. Jones, M.J. and Siegal, G.P.: Testicular surprises in two apparently healthy young men. Minnesota Medicine. 62:671-672, 1979.
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8. Siegal, G.P., Hodgson, G.P., Elder, P.K., Stoddard, L.S., and Getz, M.J.: Polyadenylate- deficient analogues of poly(A)-containing mRNA sequences in cultured AKR mouse embryo cells. Journal of Cellular Physiology. 103:417-428, 1980.
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12. Stanley, R.J. and Siegal, G.P.: Death by drowning. An overview. Minnesota Medicine. 64:295-297, 1981.
13. Garbisa, S., Liotta, L.A., Tryggvason, K., and Siegal, G.P.: Antibodies to collagenase resistant terminal regions of pro-type IV collagen recognize whole basement membrane and 7-S collagen. FEBS Letters. 127:257-262, 1981.
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