

May 29, 2018

CURRICULUM VITAE

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EDUCATION AND TRAINING

Undergraduate

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| 1971-1974 | Northwestern University | B.A. Biological Sciences, 1974 |
| | Evanston, Illinois | |

Graduate Education (continued)

Graduate

- 1974-1975 Northwestern University M.S. Biological Sciences, 1975
Evanston, Illinois
- 1975-1979 Northwestern University Ph.D. Biological Sciences, 1980
Evanston, Illinois
Dissertation Advisor: Robert C. King, Ph.D.
Dissertation Title: Studies of *fs(1)1621*, a mutation producing
ovarian tumors in *Drosophila melanogaster*.

Fellowships and Postdoctoral Training

- 1979-1981 Postdoctoral Fellow, Division of Genetics, Department of Pediatrics,
Genetics and Regulation Postdoctoral Training Grant, University of
Rochester School of Medicine and Dentistry, Rochester, NY;
Advisors: Richard A. Doherty, M.D. and James F. Leary, Ph.D.
- 1981-1983 Postdoctoral Research Associate, Department of Cell Biology,
Baylor College of Medicine, Houston, Texas; Advisor: Wayne
Wray, Ph.D.
- 1983-1984 Postdoctoral Research Associate, Robert J. Kleberg Cytogenetics
Laboratory, Department of Medicine, Baylor College of Medicine,
Houston, Texas; Advisor: David H. Ledbetter, Ph.D.
- 1995 First exchange scientist. September-December. University of
Pittsburgh Cancer Institute - Deutsches Krebsforschungszentrum
Scientific Exchange Program; Hosts: PD Dr. E.-M. de Villiers and
Professor Harald zur Hausen, Abteilung Tumovirus-
Charakterisierung, Heidelberg, Germany.

Continuing Education

- 2009 Certificate, Academic Entrepreneurship: The Business of
Innovation Commercialization, Center for Executive Education,
University of Pittsburgh Katz Graduate School of Business.
- 2010 Participated in the 10 week Certificate Course, From Benchtop to
Bedside, Office of Enterprise Development, University of
Pittsburgh.
- 2018 Allies Training, University of Pittsburgh.

APPOINTMENTS AND POSITIONS

Academic

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|--------------|--|
| 1984-1987 | Assistant Professor of Pathology and Pediatrics, University of Arkansas for Medical Sciences and Director, Cytogenetics Laboratory, Arkansas Children's Hospital, Little Rock, AR |
| 1985-1987 | Graduate Faculty, University of Arkansas for Medical Sciences, Little Rock, AR |
| 1987-1989 | Assistant Professor of Human Genetics, Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA |
| 1989-1995 | Assistant Professor of Human Genetics, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA |
| 1995-1997 | Associate Professor of Human Genetics (with tenure), Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA |
| 1997-1998 | Associate Professor of Human Genetics (with tenure) and Pathology, University of Pittsburgh Graduate School of Public Health and School of Medicine, Pittsburgh, PA |
| 1998-2003 | Associate Professor of Human Genetics (with tenure), Otolaryngology, and Pathology, University of Pittsburgh Graduate School of Public Health and School of Medicine, Pittsburgh, PA |
| 1987-1994 | Associate Member, Pittsburgh Cancer Institute |
| 1994-present | Member, University of Pittsburgh Cancer Institute; UPMC Hillman Cancer Center |
| 1989-2011 | Director, University of Pittsburgh Cancer Institute Cytogenetics Facility |
| 1988-1999 | Director, The University of Pittsburgh Clinical Cytogenetics Laboratory |
| 1999-present | Director of Research and Clinical Cytogenetics Consultant, The Pittsburgh Cytogenetics Laboratory of the University of Pittsburgh Medical Center |

Academic Appointments (continued)

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| 2003-present | Professor of Human Genetics (with tenure) and Associate Professor of Pathology, University of Pittsburgh Graduate School of Public Health and School of Medicine, Pittsburgh, PA |
| 2004-present | Professor of Human Genetics (with tenure) and Professor of Otolaryngology, University of Pittsburgh Graduate School of Public Health and School of Medicine, Pittsburgh, PA |
| 2011-2018 | Director, University of Pittsburgh Cell Culture and Cytogenetics Facility |

Public and Community Service

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| 1992-2004 | Member, Allegheny County Board of Health |
| 1997, 2000-2004 | Vice Chair, Allegheny County Board of Health |
| 1999-present | Advisor and event chair, Joan Gollin Gaines Cancer Research Fund at the University of Pittsburgh |
| 2001-2004 | Chair, Tobacco Control Advisory Subcommittee, Allegheny County Board of Health |
| 2002-2008 | Member, Board of Directors, Tobacco Free Allegheny, Inc. |
| 1994-2004 | Member, Allegheny County Board of Health, Tony Stagno Environmental Mini-Grant Allocation Subcommittee |
| 1994-2000 | Member, Clinical Laboratory Improvement Advisory Committee, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services (and Proficiency Testing and Genetic Testing Subcommittees). |
| 1995-1997 | Member, Tobacco Control Committee, American Cancer Society - Pittsburgh Chapter |
| 1996-2002 | Member, Allegheny County Health Department Recycling Program Advisory Committee |

Public and Community Service (continued)

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| 1997-2018 | Consultant, Immunology Devices Panel, other panels of the Medical Devices Advisory Committee, and to the Center for Devices and Radiological Health, Food and Drug Administration, U.S. Department of Health and Human Services |
| 2004-2008 | Member, Immunology Devices Panel, Medical Devices Advisory Committee, Center for Devices and Radiological Health, Food and Drug Administration, U.S. Department of Health and Human Services |
| 1997 | Ad Hoc Reviewer, Oral Biology and Medicine I Study Section, NIH |
| 1999, 2000 | Ad Hoc Reviewer, Department of Veterans Affairs, Office of External Reviews |
| 1999 | Invited to serve as a study section reviewer for the California Cancer Research Program, State of California Department of Health Services, but unable to serve due to conflicts of effort with teaching and service duties to the University of Pittsburgh |
| 1999-2001 | External Advisory Board, International Collaborating Centers in Oral Cancer Research, New York Eye and Ear Infirmary (Stimson Schantz, M.D., Principal Investigator) |
| Dec., 2000 | Special Emphasis Panel member, National Cancer Institute, to review applications in response to RFAs CA-01-002, -003, and -008 Minority Institution/Cancer Center Partnerships. |
| Dec., 2000 | Genetics Special Emphasis Panel member, ZRG1-GEN-01S, National Institutes of Health Center for Scientific Review |
| June, 2001 | Site visit team member, Laboratory of Experimental Carcinogenesis, National Cancer Institute |
| 2001, 2002 | Grant Reviewer, Dutch Cancer Society |
| July, 2001 | Ad Hoc Grant reviewer, U.S. Civilian Research and Development Foundation (CRDF) for the Independent States of the Former Soviet Union |
| September, 2002 | College of American Pathologists Inspector, Cytogenetics Laboratory, West Virginia University Medical Center |
| October, 2002 | Ad Hoc Member, Mammalian Genetics Study Section, NIH |

Public and Community Service (continued)

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| February, 2004 | Site visit team member for the National Cancer Institute at the University of Texas M.D. Anderson Cancer Center |
| Jan.-Dec., 2005 | Member, American Society of Human Genetics Information and Education Committee |
| May, 2005 | Site visit team member, Laboratory of Experimental Carcinogenesis, National Cancer Institute |
| June, 2005 | Special Emphasis Panel member, National Cancer Institute, to review applications in response to RFAs CA-05-020, -021, -022 Minority Institution/Cancer Center Partnerships or Collaborations. |
| August, 2005 | Research Grant Reviewer, Medical Research Council |
| 2005 - 2008 | Member, American Society of Human Genetics Program Committee |
| June, 2006 | Oncological Sciences Special Emphasis Panel member, ZRG1 ONC S(02)M, National Institutes of Health Center for Scientific Review |
| June 22, 2007 | Oncological Sciences Special Emphasis Panel member, Chromosomal Instability and Cancer, 2007/10 Council ZRG1 ONC-H02 M, National Institutes of Health Center for Scientific Review |
| 2008 - 2009 | Member, Scientific Program Committee, 2 nd World Congress of the International Academy of Oral Oncology, Toronto, Ontario, Canada, July 8-11, 2009 |
| January, 2009 | Ad Hoc Study Section Member, American Cancer Society, Atlanta, GA |
| 2009- present | Volunteer, Advocacy and Speakers Bureau, Pittsburgh Chapter, American Cancer Society |
| June, 2009 | Ad Hoc Member, National Institute for Dental and Craniofacial Research NIDCR Special Review Committee, DSR 2009/010 |
| 1/2010-2014 | Member, Clinical Cancer Research and Epidemiology [CCE] Peer Review Committee, American Cancer Society, Atlanta, GA |
| 2010-2017 | Member, Pennsylvania Cancer Prevention, Control, and Research Advisory Board; Appointed by Governor Edward G. Rendell, Approved by PA State Senate |

Public and Community Service (continued)

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| June, 2011 | Special Emphasis Panel member, National Cancer Institute, Comprehensive Partnerships to Reduce Cancer Health Disparities, ZCA1 SRLB-Y (01). |
| December, 2013 | Site visit team member, Intramural Genetics Branch, National Cancer Institute. |
| 2013-2018 | Advisory Board, J Genes Pgh (Center for the Prevention of Jewish Genetic Diseases) |
| 2013-present | Member, Northwestern Alumni Admissions Council (Interview Prospective Northwestern University Students) |
| 2015-present | Member, Department of Human Genetics Admissions Committee |
| 2016-2019 | Member, Board of Trustees, Women's Law Project |
| 2017-present | Member, Pennsylvania Cancer Prevention, Control, and Research Advisory Board; Reappointed by Governor Tom Wolf, Approved by PA State Senate. |
| 2018-present | Elected Judge of Elections, Pittsburgh 11-9, Allegheny County, PA |
| 2018-present | Appointed Co-Chair, Cancer Genetics/Genomics Subcommittee of the Pennsylvania Cancer Prevention, Control, and Research Advisory Board. |

BOARD CERTIFICATION

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| 1987 | Diplomate, Clinical Cytogenetics, American Board of Medical Genetics |
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MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

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| 1975-Present | American Association for the Advancement of Science |
| 1978-Present | Sigma Xi |
| 1978-Present | American Society of Human Genetics |
| 1979-2012 | American Society for Cell Biology |
| 1983-2012 | Association of Genetic Technologists |
| 1989-Present | Pittsburgh Cytogenetics Club |
| 1989-Present | Delta Omega National Public Health Honor Society, Omicron Chapter |
| 1990-Present | American Association for Cancer Research (AACR) |

Memberships in Professional and Scientific Societies (continued)

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| 1992-Present | Childrens Cancer Study Group |
| 1993-Present | Founding Fellow Ph.D., American College of Medical Genetics & Genomics |
| 1994-2000 | Women in Cancer Research (beginning in 2000, under AACR) |
| 2000-Present | Associate Member, American Head and Neck Society |
| 2005-Present | Founding Fellow, International Academy of Oral Oncology |
| 2008-Present | Senior Fellow, Head and Neck Optical Diagnostics Society |
| 2009-Present | Founding Fellow, Indian Association of Molecular Pathologists |
| 2010-2012 | Member, Society for Executive Leadership in Academic Medicine (SELAM) International now Women Executives in Science and Healthcare (WESH) |

HONORS AND AWARDS

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| 1992-Present | Who'sWho in America (most recently, 70th ed., 2016) Who'sWho in the World (most recently, 33rd ed., 2016) |
| 2005 | Honoree, The Women and Girls Foundation of Southwestern Pennsylvania (honored for inspiring and innovative work in the sciences) |
| 2013, 2014 2015 | Pitt Innovator Award (University of Pittsburgh Faculty/Staff whose innovations were licensed or optioned in the past year to commercial partners) |
| 2018 | Member, The University of Pittsburgh Graduate School of Public Health 'Celebrate 70' Honorary Anniversary Committee |

PROFESSIONAL ACTIVITIES

Teaching **Courses Taught**

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| 1988, 1989 | 2 hr lecture in Biostatistics (Bios) 224 Special Topics in Human Genetics class concerning the research ongoing in my laboratory. |
| Winter Term, 1988-1989 | Bios 232: I redesigned, organized, coordinated, and taught the laboratory course, Bios 232, Cytogenetic Techniques. 4 contact hours/week. Enrollment: 5. |
| Fall Term, 1989-1990 | Bios 231: I redesigned, organized, and taught Bios 231, Chromosomes and Human Disease. 4 contact hours/week Enrollment: 24. |

Teaching: Courses Taught (continued)

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| Sept., 1989 | Taught invited lecture in Integrated Second Year Curriculum, University of Pittsburgh School of Medicine |
| Oct., 1990 | Introduction to Medicine Course on "Cancer as a Disease of DNA", University of Pittsburgh School of Medicine |
| Winter Term 1989-1990 | Taught Bios 232, Cytogenetic Techniques. 4 contact hours/week. Enrollment: 15. |
| Fall Term, 1990-1991 | Taught Human Genetics (HuGen) 2031, Chromosomes and Human Disease. 4 contact hours/week. Enrollment: 23. |
| Winter Term 1990-1991 | Taught HuGen 2032, Cytogenetic Techniques. 4 contact hours/week. Enrollment: 13. |
| 1990,1991 | Taught an invited lecture in Epidemiology 2600, Introduction to Molecular Epidemiology entitled, "Cytogenetic abnormalities and cancer" with Dr. Andrew Olshan. |
| Fall Term, 1991-1992 | Taught HuGen 2031, Chromosomes and Human Disease. 4 contact hours/week. Enrollment: 25. |
| Winter Term, 1991-1992 | Redesigned and taught HuGen 2032, Cytogenetic Techniques. 4 contact hours/week. Enrollment: 15. |
| May, 1992 | Taught an invited lecture on Cancer Cytogenetics to second year medical students at the University of Pittsburgh during their two week genetics course. |
| Fall Term, 1992-1993 | Taught HuGen 2031, Chromosomes and Human Disease. 4 contact hours/week. Enrollment: 25. |
| Winter Term, 1992-1993 | Taught HuGen 2032, Cytogenetic Techniques. 4 contact hours/week. Enrollment: 15. |
| Fall Term, 1993-1994 | Taught HuGen 2031, Chromosomes and Human Disease. 4 hours/week. Enrollment: 22. |
| Spring Term, 1993-1994 | Taught HuGen 2032, Cytogenetic Techniques. 4 contact hours/week. Enrollment: 12. |
| Fall Term, 1994-1995 | Taught HuGen 2031, Chromosomes and Human Disease. 4 contact hours/week. Enrollment: 25. |

Teaching: Courses Taught (continued)

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| Spring Term, 1994-1995 | Taught HuGen 2032, Cytogenetic Techniques. 4 contact hours/week. Enrollment: 12. |
| Fall Term, 1995-1996 | Coordinated teaching of HuGen 2031, Chromosomes and Human Disease. 4 contact hours/week. Enrollment: 25. |
| Spring Term, 1995-1996 | Taught HuGen 2032, Cytogenetic Techniques. 4 contact hours/week. Enrollment: 9 |
| Fall Term, 1996-1997 | Taught HuGen 2031, Chromosomes and Human Disease. 4 contact hours/week. Enrollment: 20. |
| Spring Term, 1996-1997 | Taught HuGen 2032, Genetic Techniques. 4 contact hours/week. Enrollment: 12. |
| February, 1997 | Lecture on Genetic Alterations in Cancer to the Fourth Year Medical Students in the Neoplasia and Neoplastic Disease Selective, University of Pittsburgh School of Medicine |
| Fall Term, 1997-1998 | Taught HuGen 2031, Chromosomes and Human Disease. 4 contact hours/week. Enrollment: 27. |
| Spring Term, 1997-1998 | Taught HuGen 2032, Genetic Techniques. 4 contact hours/week. Enrollment: 11. |
| February, 1998 | Lecture on Genetic Alterations in Cancer to the Fourth Year Medical Students in the Neoplasia and Neoplastic Disease Selective, University of Pittsburgh School of Medicine |
| Fall Term, 1998-1999 | Taught HuGen 2031, Chromosomes and Human Disease. 4 contact hours/week. Enrollment: 22. |
| Spring Term, 1998-1999 | Taught HuGen 2032, Genetic Techniques. 4 contact hours/week. Enrollment: 14. |
| March 1, 1999 | Lecture on Genetic Alterations in Cancer to the Fourth Year Medical Students in the Neoplasia and Neoplastic Disease Selective, University of Pittsburgh School of Medicine |
| Fall Term, 1999-2000 | Taught HuGen 2031, Chromosomes and Human Disease. 4 contact hours/week. Enrollment: 11. |
| Spring Term, 1999-2000 | Taught HuGen 2032, Genetic Techniques. 4 contact hours/week. Enrollment: 7. |

Teaching: Courses Taught (continued)

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| March, 2000 | Lecture on "Genetic Alterations in Cancer" to the Fourth Year Medical Students in the Neoplasia and Neoplastic Disease Selective, University of Pittsburgh School of Medicine |
| Summer Term, 1999-2000 | Team Taught MSMIC 2290, Scientific Ethics, University of Pittsburgh School of Medicine. Instructor and Discussion Group Leader. 4 contact hours/week. Enrollment: ~40. |
| Fall Term, 2000-2001 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; 4 contact hours/week. Enrollment: 25. |
| Spring Term, 2000-2001 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. 4 contact hours/week. Enrollment: 8. |
| Summer Term, 2000-2001 | Team Taught INTBP 2290, Scientific Ethics, University of Pittsburgh School of Medicine. Instructor and Discussion Group Leader. 4 contact hours/week. Enrollment: 25. |
| Fall Term, 2001-2002 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; 4 contact hours/week. Enrollment: 26. |
| Spring Term, 2001-2002 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. 4 contact hours/week. Enrollment: 8. |
| Fall Term, 2002-2003 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; 4 contact hours/week. Enrollment: 25. |
| Spring Term, 2002-2003 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. 4 contact hours/week. Enrollment: 12. |
| Fall Term, 2003-2004 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; 4 contact hours/week. Enrollment: 25. |
| Spring Term, 2003-2004 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. 4 contact hours/week. Enrollment: 12. |
| Fall Term, 2004-2005 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; 4 contact hours/week. Enrollment: 25. |
| Spring Term, 2004-2005 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. 4 contact hours/week. Enrollment: 10. |
| Fall Term, 2005-2006 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 24. |

Teaching: Courses Taught (continued)

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| Spring Term, 2005-2006 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. Four contact hours/week. Enrollment: 11. |
| Fall Term, 2006-2007 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 20. |
| Spring Term, 2006-2007 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. Four contact hours/week. Enrollment: 10. |
| Fall Term, 2007-2008 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 21. |
| Spring Term, 2007-2008 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. Four contact hours/week. Enrollment: 12. Laboratory/lecture course. |
| Fall Term, 2008-2009 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 21. |
| Spring Term, 2008-2009 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. Four contact hours/week. Enrollment: 10. Laboratory/lecture course. |
| Spring Term, 2008-2009 | Taught HuGen 2025, Human Genetics Noon Seminar. Primary Instructor. One contact hour/week. Enrollment: 25. |
| Fall Term, 2009-2010 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 21. |
| Spring Term, 2009-2010 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. Four contact hours/week. Enrollment: 10. Laboratory/lecture course. |
| Fall Term, 2010-2011 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 23, including 4 Fellows and 19 MS, MPH, and/or PhD students. |
| Spring Term, 2010-2011 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. Four contact hours/week. Enrollment: 10. Laboratory/lecture course. |
| Fall Term, 2011-2012 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 26, including 2 Fellows and 24 MS, MPH, and/or PhD students. |
| Spring Term, 2011-2012 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. Four contact hours/week. Enrollment: 11. Laboratory/lecture course. |
| Spring Term, 2011-2012 | Taught HuGen 2025, Human Genetics Noon Seminar. Primary Instructor. One contact hour/week. Enrollment: 30. |

Teaching: Courses Taught (continued)

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| Fall Term, 2012-2013 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 28, including five Fellows and 23 MS, MPH, and/or PhD students. |
| Spring Term, 2012-2013 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. Four contact hours/week. Enrollment: 13. Laboratory/lecture course. |
| Fall Term, 2013-2014 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 23 Fellows, MS, MPH, and/or PhD students. |
| Spring Term, 2013-2014 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. Four contact hours/week. Enrollment: 11. Laboratory/lecture course. |
| Fall Term, 2014-2015 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 23 Fellows, MS, MPH, and/or PhD students. |
| Spring Term, 2014-2015 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. Four contact hours/week. Enrollment: 10. Laboratory/lecture course. |
| Fall Term, 2015-2016 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 20 MS, MPH, and/or PhD students. |
| Spring Term, 2015-2016 | Taught HuGen 2032, Genetic Techniques. Primary Instructor. Four contact hours/week. Enrollment: 12. Laboratory/lecture course. |
| Fall Term, 2016-2017 | Taught HuGen 2031, Chromosomes and Human Disease, special session for two students with incomplete grades. Primary Instructor; Two contact hours/week. Enrollment: 1 MS and one PhD student. |
| Spring Term, 2016-2017 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 28 MS, MPH, and PhD students, one Honors College undergraduate, and one Genetics Resident. |
| Fall Term, 2017-2018 | HuGen 2011, Scientific Writing in Human Genetics. Primary Instructor; One contact hour/week. Enrollment: 16 MS, MPH, and PhD students. |
| Spring Term, 2017-2018 | Taught HuGen 2031, Chromosomes and Human Disease. Primary Instructor; Four contact hours/week. Enrollment: 15 MS, MPH, and PhD students and two Genetics Residents. |

Teaching

Invited Didactic Lectures

- 1988 11/2/88: The Search for Cytogenetic Abnormalities in Human Solid Tumors. Invited Lecture, Continuing Medical Education Conference, Department of Pathology, Magee Women's Hospital.
- 1988 11/30/88: Invited Lecture to the University of Pittsburgh Hematology/Oncology Conference on Chromosomes and Cancer.
- March, 1989 Presented invited 2 hr lecture to the Pittsburgh Pathology Society on Cancer Cytogenetics: Introduction, Case Presentations, and Discussion.
- 1989 Participated in Pittsburgh Cancer Institute Tumor Board discussions of cases.
- March, 1991 Invited to present a segment of Pathology Grand Rounds on the Cytogenetics of CML, Eosinophilic Leukemia, vs. Leukemoid reaction.
- May, 1991 Invited to present a segment of Pathology Grand Rounds on the use of cytochemical stains and novel cytogenetic methods in diagnosing leukemias.
- June, 1992 Taught an invited lecture on Cytogenetics to the Osler Institute Pediatrics Board Review Course in Pittsburgh, PA.
- May, 1993 Faculty, Medical Genetics Board Review course, University of Pittsburgh. Presented a 1 hour lecture on Cytogenetics: Autosomes, Aneuploidy and a two hour workshop on cytogenetics.
- September, 1994 Presented a Grand Rounds lecture entitled, "Clinical Cytogenetics Update: High Resolution Chromosome Analysis and FISH" to the University of Pittsburgh Craniofacial Center.
- May 8, 1995 Presented a lecture entitled, "Cytogenetics as a Diagnostic Tool in Hematological Malignancies" at "Cancer Genetics: Practical Applications for Patients and Families," University of Pittsburgh Center for Continuing Education in the Health Sciences
- April 10, 1996 Taught Clinical Pathology lecture on Introduction to Cytogenetics to the Pathology Residents, University of Pittsburgh Medical Center

Teaching: Invited Didactic Lectures (continued)

- May 3, 1996 Faculty, Medical Genetics Board Review course, University of Pittsburgh. Presented a 1 hour lecture entitled, "Cytogenetics: Autosomes, Aneuploidy."
- July 16, 1996 Faculty, University of Pittsburgh Department of Pathology, Division of Molecular Diagnostics, Pathology Resident Training Course. Presented 1.5 hours of lecture on Classical and Molecular Cytogenetics, illustrated with case presentations.
- April 24, 1999 Taught Saturday Health Science Academy for the Partners in Education Consortium, University of Pittsburgh
- May 5, 2000 Presentation on "Chromosomal Abnormalities in Oral Cancer" to the Continuing Education Conference entitled, "Recent Advances in Head and Neck Cancer" sponsored by the University of Pittsburgh School of Medicine Center for Continuing Education in the Health Sciences
- July 30, 2000 Invited Lecture, "A Clinician's Guide to Chromosome Abnormalities as Biomarkers in Head and Neck Cancer", "Lunch with the Professor", at the 5th International Conference on Head & Neck Cancer, San Francisco, CA
- May, 2002 Invited Lecture, "A Clinician's Guide to Chromosome Abnormalities as Biomarkers in Head and Neck Cancer", Department of Otolaryngology, University of Arkansas for Medical Sciences, Little Rock, AR.
- July, 2002 Invited inservice lecture: Chromosomal Instability in Oral Carcinoma Cells, Pittsburgh Cytogenetics Laboratory, University of Pittsburgh Medical Center
- September, 2002 Invited Lecture, "Chromosomal Alterations in Oral Cancer Cells: Useful Biomarkers of Disease." Cancer Epidemiology and Prevention Seminar Series, EPIDEM 2250, University of Pittsburgh Graduate School of Public Health.
- August, 2009 Plunge into Public Health, Talk on GSPH Orientation Day, "Smoking, Chromosomes, Cancer and Biomarkers: A Tangled Web"
- November, 2009 Invited discussion on Health Sciences Careers to the Health Sciences Living and Learning Center, University of Pittsburgh.

Teaching: Invited Didactic Lectures (continued)

- July 14, 2010 Lecture to Summer Institute for Training in Biostatistics students, "Smoking, Chromosomes, Cancer and Biomarkers: A Tangled Web."
- August 26, 2010 Plunge into Public Health, Talk on GSPH Orientation Day, "Smoking, Chromosomes, Cancer and Biomarkers: A Tangled Web."
- August 26, 2011 Plunge into Public Health, Talk on GSPH Orientation Day, "Smoking, Chromosomes, Cancer and Biomarkers: A Tangled Web."
- August 23, 2012 Plunge into Public Health, Talk on GSPH Orientation Day, "Smoking, Chromosomes, Cancer and Biomarkers: A Tangled Web."
- August 23, 2013 Plunge into Public Health, Talk on GSPH Orientation Day, "Smoking, Chromosomes, Cancer and Biomarkers: A Tangled Web."
- August 21, 2014 Plunge into Public Health, Talk on GSPH Orientation Day, "Smoking, Chromosomes, Cancer and Biomarkers: A Tangled Web."
- August 28, 2015 Plunge into Public Health, Coordinator/Participant, Talks & Discussion on GSPH Orientation Day, "Smoking, Chromosomes, Cancer & Biomarkers: A Tangled Web (Susanne M. Gollin); Quit Smoking Resources & Participatory Projects Available in Allegheny County (Cecilia Fechter-DeSando, Tobacco-Free Allegheny), Not Your Grandfather's Cigarette: Diversification of Tobacco and Nicotine Products in the 21st Century (Brian Primack)."

Teaching

Other Lectures or Activities

- March 23, 1996 Presentation on Cancer Genetics, Renaissance Weekend, Sea Pines Resort and Conference Center, Hilton Head, South Carolina
- March 23, 1997 Presentation on the Human Genome Project, Renaissance Weekend, Sea Pines Resort and Conference Center, Hilton Head, South Carolina
- March 20, 1998 Presentations on Genetics and Public Health to the Renaissance Health Forum: Medical Breakthroughs Which Will Alter Our Lives and Cancer Genetics to the Renaissance Science Forum: Science, Space & Discovery, Renaissance Weekend, Kiawah Island, South Carolina
- March 18, 1999 Presentation on the Roles of Public Health and Genetic Testing in Beating Cancer, Renaissance Weekend, Kiawah Island, South Carolina
- March 23, 2000 Panel Moderator and Presenter on the Impact of the Human Genome Project on Cancer Research and Care, Renaissance Health Forum: Medical Breakthroughs Which Will Alter Our Lives, Renaissance Weekend, Kiawah Island, South Carolina
- March 25, 2000 Presentation on Chromosomal Alterations in Cancer to the Renaissance Health Forum: Beating Cancer, Renaissance Weekend, Kiawah Island, South Carolina
- March, 2001 Presentation on Cancer Genetics to the Renaissance Health Forum: Beating Cancer and interviewed about the Impact of the Human Genome Project on Cancer Genetics by Robert Bazell from NBC News in the Renaissance Sci/Tech Forum: Life-Changing Advances in Science, Medicine, and Technology, Renaissance Weekend, Kiawah Island, South Carolina
- March 29, 2002 Presentation on The Science Behind the Stem Cell Debate in a Renaissance Seminar and a talk on the Human Genome Project in the Renaissance Sci/Tech Forum: Life-Changing Advances in Science & Technology, Renaissance Weekend, Hilton Head Island, SC
- March, 2003 Presentation on Cancer Genetics to the Renaissance Health Forum: Beating Cancer, Renaissance Weekend, Amelia Island, FL

Teaching

Other Lectures (continued)

- July, 2004 Presentations on Cancer Genetics and the Role of the DNA Damage Response in Cancer Cells at Renaissance Weekend, Jackson Lake Lodge, Jackson, WY
- May 7, 2005 Invited presentations on “Smoking? Chromosomes? Cancer?” at the Sally Ride Science Festival, University of Pittsburgh
- November, 2006 Presentation of a lay talk on Public Health Genetics; moderated a session entitled, “Renaissance Fitness: Thanks to more than Genes – the Shape of Your Life”; presentation at the “Renaissance Sci/Tech Forum: Medicine & Technology Breakthroughs Which Will Alter our Lives” on The Human Genome Project, Public Health Genetics, and the Economic Challenges of Biomedical Research Today; contributed remarks to the Renaissance Seminar session entitled, “Lickin’ Cancer.” Renaissance Weekend, Kiawah Island, South Carolina
- May 31, 2008 After dinner talk on Genetic Changes in Cancer Cells and Cancer Genetics to the cancer survivors, their families and friends participating in the American Cancer Society Relay for Life, South Fayette/Greater Bridgeville Area (Allegheny County, PA)
- March 19, 2011 *Tour your Future*, Carnegie Science Center Girls Math and Science Partnership. University of Pittsburgh Graduate School of Public Health. Human Genetics. From Cancer in Fruit Flies to Human Cancer Genetics: Choices in My Career Pathway; Smoking, Chromosomes, Cancer and Biomarkers: A Tangled Web. Karyotyping exercise. One-hour presentation to twenty 13-16 year old girls.
- June 28, 2011 Mentor, *Click!* Program for Middle School aged girls (11-13). Carnegie Science Center Girls Math and Science Partnership. Two hour mentoring activity.

Research and Training

Grants and Contracts Received

- 1988 Biomedical Research Support Grant/NIH from the University of Pittsburgh BRSG 2 S07 RR05451-27, Mechanism of chromosomal fragile site Xq27, **Susanne M. Gollin, Ph.D., PI**, 4/88-3/89 extended for one year \$12,155. GSA plus \$1100 supplies.
- 1989 Biomedical Research Support Grant/NIH from the University of Pittsburgh BRSG 2 S07 RR05451-28, Cytogenetic analysis of interphase tumor cells using chromosome painting, **Susanne M. Gollin, Ph.D., PI**, 4/89-3/90, \$12,295. GSA plus \$1,240 supplies.
- 1989-1994 Cancer in Organ Transplant Recipients, NIH Grant 1P01CA47445-01A2, 9/1/89-6/30/94, Ronald B. Herberman, PI, Susanne M. Gollin, Investigator, 10% effort, \$683,723 annual direct costs.
- 1990 American Cancer Society Institutional Research Grant, PCI, Cytogenetics of Childhood Brain Tumors, **Susanne M. Gollin, Ph.D., PI**, 2/90-1/91. \$4,500.
- 1991-1993 Genetic Analysis of Hirschsprung Disease, NIH Grant 1R01HD28088-01, 1/1/91-12/31/95, Aravinda Chakravarti, PI, Susanne M. Gollin, Investigator, 10% effort, \$ 91,361 annual direct costs.
- 1991 AKS II™ Cytogenetic Analysis System, NIH Shared Instrumentation Grant 1 S10RR06357-01, 12/1/90-11/30/91, Robert E. Ferrell, PI, Susanne M. Gollin, Co-PI, \$88,624 annual direct costs.
- 1991-1995 Pittsburgh Cancer Institute, Cancer Center Support Grant, 2P30CA47904-04, 7/1/91-6/30/95, Ronald B. Herberman, PI, Susanne M. Gollin, Director, Cytogenetics Facility, 10% effort, \$852,715 approximate annual direct costs.
- 1993-1994 Genetic Analysis of Oral Dysplasia and Carcinoma, American Cancer Society, EDT-44, 1/1/93-12/31/94, **Susanne M. Gollin, PI**, 20% effort, \$100,000 annual direct costs. Brief Description: This project compares genetic changes in oral tumors to those in archived leukoplakias to identify the key genetic regions involved in tumor formation.

Grants and Contracts Received (continued)

- 1994-1996 Genetic Markers of Progression to Malignancy in Preneoplastic Oral Lesions, Smokeless Tobacco Research Council, 0466-01, 1/1/94-12/31/96, **Susanne M. Gollin, PI**, 10% effort, \$70,000 total annual costs. Brief Description: This combined cross-sectional analysis and case-control study examines archived leukoplakias and oral squamous cell carcinomas and tests the hypotheses that 1) alterations in the p53 tumor suppressor protein and/or human papillomavirus (HPV) infection are useful biomarkers of progression towards malignancy in the oral cavity and 2) whether the mechanism of pathologic change is different for smokers vs. smokeless tobacco users.
- 1994-1997 Genetic Analysis of Oral Preneoplasia and Carcinoma, NIH, R01 DE10513-01, 5/6/94-5/6/97, **Susanne M. Gollin, PI**, 20% effort, \$174,460 annual direct costs, \$537,553 total direct costs. Brief Description: This is a prospective genetic analysis of oral cancer and matched surgical margins to examine the genetic and epigenetic changes in these tissues. (Includes minority supplement for Ms. Tomicka Jackson, undergraduate student, University of Pittsburgh).
- 1994-1997 Therapeutic Studies of Primary CNS Malignancies in Adults, NIH, U01 CA62405-01, 3/18/94-12/31/97, Mark R. Gilbert, PI, Susanne M. Gollin, Co-investigator, 2.5% effort, \$148,390 total direct costs. Brief Description: The prognosis of patients with malignant brain tumors remains grim despite advances in neurosurgery, radiation treatment, neuroimaging and chemotherapy. This project brings together a multidisciplinary team of clinical and laboratory researchers to facilitate and enhance clinical studies to evaluate new treatment approaches.
- 1995-1999 Pittsburgh Cancer Institute, Cancer Center Support Grant, 2P30CA47904-08, 9/30/95-7/31/99, Ronald B. Herberman, PI, Susanne M. Gollin, Director, Cytogenetics Facility, 10% effort, \$1,093,387 annual direct costs. This is a multidisciplinary program in cancer research, prevention and control, early diagnosis and treatment, education, and clinical care.
- 1996 University of Pittsburgh Provost's Research Instrumentation Program Grant, Molecular Cytogenetic Analysis Instrumentation, **Susanne M. Gollin, PI**, \$25,000.
- 1997-1998 Cytogenetic Analysis Instrumentation, NIH Instrumentation Grant 1S10RR11879, 4/1/97-3/30/98, **Susanne M. Gollin, PI**, \$165,000 annual direct costs.

Grants and Contracts Received (continued)

- 1997-1999 Tumor Suppressor Protein Alterations in Oral Dysplasia and Carcinoma, Smokeless Tobacco Research Council, 0660-01, 7/1/97-6/30/99, **Susanne M. Gollin, PI**, 15% effort, \$117,158 total annual costs. Brief Description: This study is designed to test the hypotheses that 1) alterations in the FHIT and CDKN2 tumor suppressor proteins occur early in the developmental pathway of oral cancer (OSCC), 2) the pathway to OSCC development is different for smokeless tobacco users vs. smokers vs. non-tobacco users, and 3) these alterations are useful biomarkers of malignancy in the oral cavity.
- 1997-2002 Genetic Analysis of Chromosome 9p21 in Oral Carcinoma, National Institutes of Health/ National Institute of Dental Research, RO1 DE12008, 7/1/97-4/30/02, **Susanne M. Gollin, PI**, 20% effort, \$321,222 total annual costs. Brief Description: This project tests the hypothesis that genetic (and/or epigenetic) alterations in 9p21 are early events in oral carcinogenesis and serve as useful markers for the early detection of cancer.
- 1997-1998 Oral Cancer Prevention, Research, and Treatment Center (RFA DE-96-004 Comprehensive Oral Research Centers), National Institutes of Health/ National Institute of Dental Research, 1P20DE12378-01, 7/1/97 - 6/30/98, Eugene N. Myers, PI, 5% effort, \$99,981 total annual costs. Brief Description: The proposed planning grant is to develop an Oral Cancer Prevention, Research, and Treatment Center at the University of Pittsburgh. Dr. Gollin will serve as Program Leader of the Molecular Carcinogenesis and Cell Biology Program.
- 1997-2000 Mutagenicity of AZT in Children of HIV-Infected Women, National Institutes of Health/ NICHD, R01HD33648, 7/1/97 - 6/30/00, V. Walker, NY State Dept of Health, PI, Univ. of Pittsburgh Subcontract, W.L. Bigbee, PI, Susanne M. Gollin, Investigator, 10% effort, \$403,322 total annual direct costs year 01, \$80,783 subcontract. Brief Description: This study will use a set of molecular dose and effect biomarkers to determine the potential of AZT to act as a transplacental clastogen or mutagen in pregnant women at therapeutic doses, and to produce biological data in humans and mice and rats that will improve the assessment of the long-term genetic risks of AZT therapy in children and adults. Dr. Bigbee's role as a Co-Investigator on this study is to oversee laboratory work at the University of Pittsburgh to measure glycophorin A (GPA) locus mutations and chromosome aberrations, in collaboration with Drs. Susanne Gollin and Niel Wald, in placental cord blood cells from human newborns enrolled in the study.

Grants and Contracts Received (continued)

- 1999-2004 University of Pittsburgh Cancer Institute, Cancer Center Support Grant, P30CA47904 8/1/99-7/31/2009, Ronald B. Herberman, PI, Susanne M. Gollin, Director, Cytogenetics Facility, 10% effort, \$1,093,387 annual direct costs. This is a multidisciplinary program in cancer research, prevention and control, early diagnosis and treatment, education, and clinical care.
- 1999-2004 Oral Cancer Center at the University of Pittsburgh, 1P60DE13059-01, 8/1/1999-7/31/2004, ~\$1,500,000 annual direct costs, 5% effort. Eugene N. Myers, PI, Susanne M. Gollin, Program Leader, Molecular Carcinogenesis and Cell Biology Program and Co-PI on project listed below. The goal of the center is to make a substantial impact on decreasing morbidity and mortality from oral cancer in western Pennsylvania.
- 1999-2004 Etiology of Karyotypic Defects in Oral Cancer; Project 4. Oral Cancer Center at the University of Pittsburgh, 1P60DE13059-01, 8/1/1999-7/31/2004, ~\$217,782 annual direct costs, 15% effort. William S. Saunders, PI, **Susanne M. Gollin, Co-PI**. Plus minority supplement for Ms. Debbi McKinnon. The frequency of aneuploidy in oral cancers is reportedly higher than other tumors. What is the cause of this high rate of chromosomal instability and resulting aneuploidy in oral cancer? We hypothesize that the CIN in OSCC is a result of alterations in key spindle, centrosomal, and centromeric (cytoskeletal) proteins. We propose to 1) sequentially characterize the cytogenetic and cytoskeletal alterations in the same OSCC cells compared to control NHOKs by immunocytochemistry with antibodies to key cytoskeletal proteins and classical and molecular cytogenetic analyses, 2) define a basis for the cytoskeletal defects in OSCC in terms of altered expression of selected cytoskeletal proteins and/or aberrations in their genes using blotting and sequencing, and 3) determine whether the observed changes in cytoskeletal proteins are causally related to CIN by inducing defects in the cytoskeleton of NHOKs by expression of altered levels of cytoskeletal proteins and assessing whether CIN results.

(PLEASE NOTE: This grant was also funded as an R01DE13134 with Susanne M. Gollin as PI and William S. Saunders as Co-PI with a priority score of 163. Due to the importance of the Oral Cancer Center Grant, and since there was complete overlap, the R01 was turned down.)

Grants and Contracts Received (continued)

- 2002-2008 Characterization of the 11q13 Amplicon in Oral Cancer. **Susanne M. Gollin (PI)**, 20% effort, 7/1/2002-6/30/2008, NIH R01DE14729, \$225,000 annual direct costs plus a \$50,000 supplement in year 01 towards a CytoVision Brightfield and Fluorescence Imaging System. The mechanism of gene amplification has been unexplored in oral cancer. Based on our recent studies, we hypothesize that 11q13 amplification in oral cancer occurs by breakage-fusion-bridge (BFB) cycles. We will examine the structural organization of the amplicon, determine whether the amplicon is localized to anaphase bridges, and assess the expression level of genes in and around the 11q13 amplicon in cell lines and primary tumors.
- 2002 University of Pittsburgh Cancer Institute Pilot Grant. Role of *ATM* in Oral Cancer. \$50,000. Susanne M. Gollin, (PI). This pilot study proposes to examine copy number and functionality of the *ATM* gene in oral cancer cell lines. 07/01/02-06/30/04.
- 2003 Commonwealth of Pennsylvania Department of Health. Characterization of the 11q13 Amplicon in Breast Cancer. **Susanne M. Gollin (PI)**, \$35,000 annual direct costs. One year grant. The mechanism of gene amplification has been unexplored in breast cancer. Based on our recent studies, we hypothesize that 11q13 amplification in breast cancer occurs by breakage-fusion-bridge (BFB) cycles. We will examine the structural organization of the amplicon, determine whether the amplicon is localized to anaphase bridges, and assess the expression level of genes in and around the 11q13 amplicon in cell lines and primary tumors.
- 2004-2009 NIH P30 CA47904 Herberman (PI) 08/01/91 - 7/31/2009
NIH/NCI Cancer Center Support Grant,
Cytogenetics Facility (Gollin)
Dr. Gollin is Director of the Cytogenetics Facility of the University of Pittsburgh Comprehensive Cancer Center, which provides state-of-the-art cytogenetic analyses to cancer researchers.
(<http://www.upci.upmc.edu/facilities/Cytogen>)

Grants and Contracts Received (continued)

- 2004-2009 NIH R01DE016086 Dr. William S. Saunders (PI) 07/01/2004-06/30/2009
Susanne M. Gollin, Co-PI NIH/NIDCR
Origin of Spindle Multipolarity in Oral Cancer Cells
Induction of multipolar spindles in cancer cells requires at least two steps, 1) over-replication of the centrosomes, and 2) inhibition of the mechanisms that hold over-replicated centrosomes together. In at least some cancer cells, centrosome separation requires displacing the molecular motor dynein from the spindle, which can be achieved by amplification and overexpression of the *NUMA1* gene. We propose three specific aims to further our understanding of the mechanisms leading to multipolar spindles and of their significance to the cell. Dr. Gollin is involved in the overall goals of the study, but more specifically in cell culture for the entire project and fluorescence *in situ* hybridization for Aim 3 to examine the significance of multipolar spindles to genomic instability and the significance of genomic instability to aneuploidy.
- 2004-2008 NIH P50CA097190 Dr. Jennifer Rubin Grandis (PI)
06/01/2004-12/31/2008
Susanne M. Gollin, Investigator on Project 1 and Co-Director, Developmental Research Program
NIH/NCI SPORE in Head and Neck Cancer
Project 1 is designed to examine whether polymorphisms in DNA repair genes increase the risk of certain cancers in the presence of environmental exposure to carcinogens such as cigarette smoke. Our preliminary results suggest an interaction between polymorphisms in genes in the nucleotide excision repair pathway, cell cycle control pathway, exposure to carcinogens present in cigarette smoke and SCCHN and lung cancer risk. This study is designed to validate these initial observations in a larger patient population and correlate the genotype and phenotype in surrogate and surgical specimens from SCCHN subjects. Dr. Gollin is carrying out fluorescence *in situ* hybridization (FISH) to examine cyclin D1 gene amplification in these tumors. Dr. Gollin codirects the Head & Neck Cancer SPORE Developmental Research Program, a unique pilot project program emphasizing translational research in head and neck cancer.
- 2005-2007 Head and Neck SPORE at the University of Pittsburgh 10/01/05-09/30/07
Developmental Research Program - Pilot Project
NIH/NCI (P50 CA097190 Dr. Jennifer Rubin Grandis (PI))
SPORE Development Research Project Distal Chromosome 11q Loss a Biomarker of Poor Prognosis
The overall goals of the Specialized Program of Research Excellence (SPORE) in Head and Neck Cancer are to improve the detection and treatment of head and neck cancer.

Grants and Contracts Received (continued)

- 2006-2007 Head and Neck SPORE at the University of Pittsburgh 07/01/06-06/30/07
NIH/NCI (P50 CA097190 Dr. Jennifer Rubin Grandis (PI))
Combined EGFR and VEGF Inhibition for the Treatment of Head and Neck Cancer
The overall goal of this project is to develop a novel, efficacious and safe combination therapy that will benefit patients with HNSCC.
- 2006-2011 NIH RO1 CA083876 Dr. Joel Greenberger (PI) 08/02/06-06/30/11
Susanne M. Gollin, Ph.D. Co-Investigator
Gene Therapy Reduction of Radiotherapy Esophagitis
The overall goals of this project are to seek to prove that ionizing radiation limits reparative stem cell engraftment of the irradiated esophagus because of antioxidant depletion through continuous reactive oxygen species (ROS) production by cells of the microenvironment and that the mechanism of amelioration of toxicity by intraesophageal MnSOD-Plasmid Liposome (PL) (antioxidant) gene therapy is by stabilizing the antioxidant pool.
- 2007-2008 Competitive Medical Research Fund (CMRF), University of Pittsburgh 09/01/07-08/31/08
Characterization of the Defective DNA Damage Response Pathways in Cancer Cells
One Year Bridge Funding to cover the lapse in R01DE14729. Goal: To obtain preliminary data to get the competitive renewal funded.
- 2007-2012 Jack Yalowich (PI) 7/20/07-5/31/12
Susanne M. Gollin, Co-Investigator
NIH R01CA090787-05A1
Mechanisms and Prevention of Etoposide-Induced Leukemia
The major goal of this project is to characterize the mechanism(s) by which myeloperoxidase activation of VP-16 to free radical forms enhances its recombinogenic DNA damaging activity in genomic regions of the *MLL* gene known to contain breakpoints associated with therapy-related AML. In addition, antioxidants will be examined for their ability to prevent oxidative DNA damage by limiting formation of VP-16 free radical forms. Dr. Gollin's role is to examine rearrangements in the human or rat *MLL* gene using fluorescence *in situ* hybridization during the course of the research study.
- 2007-2010 The Jennie K. Scaife Ovarian Cancer Center of Excellence; 9/1/2007-8/31/2008, 2/1/09-1/31/10; Pilot Funding to Examine Radio- and Chemoresistance in Ovarian Cancer Cells.

Grants and Contracts Received (continued)

2008-2012 Research funding from the Joan G. Gaines Breast Cancer Research Fund at the University of Pittsburgh Cancer Institute (as directed by Ronald B. Herberman, MD, Director, University of Pittsburgh Cancer Institute; includes funding from the Heinz Family Foundation and the United Way).

2012-2016 Research funding from the Joan G. Gaines Cancer Research Fund at the University of Pittsburgh (includes funding from the Heinz Family Foundation, Tabachnick Family, Bernstein Family, and Benter Foundations and via the Allegheny County (PA) United Way).

2010-2011 Pfizer, Inc. Investigator Initiated Research Grant to Susanne M. Gollin. Pfizer Tracking #WS594969. Funding and drug gift. A New Companion Diagnostic Biomarker for PF-00477736. This study is designed to examine efficacy of the combination therapy in cancer cell lines with and without our new biomarker.

2011-2016 William Saunders (PI) 03/01/11-02/29/16
Susanne M. Gollin, Co-Investigator
NIH 2RO1DE016086-06
Aurora B-Induced Cytokinesis Defects in Malignant Cells

The overall goal of this project is to understand mitotic or cell division defects in cancer and identify the source of the defects and their impact on oncogenesis.

2011 University of Pittsburgh Provost Faculty Computer Grant to Susanne M. Gollin
Allocation of computing funds for an Apple iPad2, software, and accessories for preparing and teaching my two courses, HuGen 2031 Chromosomes and Human Disease and HuGen2032 Genetic Techniques.

2012-2013 Head and Neck SPORE at the University of Pittsburgh 2/01/12-01/31/13
Developmental Research Program - Pilot Project
NIH/NCI (P50 CA097190 Dr. Jennifer Rubin Grandis (PI))
SPORE Developmental Research Project: Defects in the ATR/CHEK1 Pathway: A Direct Route Towards Efficacious Biomarker-Driven, Patient Tailored HNSCC
Therapy (Co-PIs, Susanne Gollin, Ph.D., Rahul Parikh, M.D., Ph.D., Michael Gibson, M.D.).

The overall goals of the Specialized Program of Research Excellence (SPORE) in Head and Neck Cancer are to improve the detection and treatment of head and neck cancer.

Grants and Contracts Received (continued)

- 2012-2013 Pittsburgh Foundation, Learmonth Fund 4/01/2012-3/31/2013
Defects in the ATR/CHEK1 Pathway: A Direct Route Towards Efficacious Biomarker-Driven Patient Tailored Therapy
- 2013-2014 Pittsburgh Foundation, Learmonth Fund 9/01/2013-8/31/2014
AD2013-67432
Defects in the ATR/CHEK1 Pathway: A Direct Route Towards Efficacious Biomarker-Driven, Patient Tailored Cancer Therapy for Bladder Cancer
- 2014-2015 Pittsburgh Foundation, Learmonth Fund 9/01/2014-8/31/2015
AD2014-75010
Defects in the ATR/CHEK1 Pathway: A Direct Route Towards Efficacious Biomarker-Driven, Patient Tailored Cancer Therapy for Bladder Cancer
- 2015 University of Pittsburgh Provost Faculty Computer Grant to Susanne M. Gollin
Allocation of computing funds for an Apple MacBook Air laptop computer, software, and accessories for preparing and teaching my two courses, HuGen 2031 Chromosomes and Human Disease and HuGen2032 Genetic Techniques.
- 2015-2017 Bladder Cancer Advocacy Network (BCAN) 7/15/2015-7/14/2017
Stephen Hale Gushée Young Investigator Award for Bladder Cancer Research to Rahul A. Parikh, MD, PhD (Susanne M. Gollin, Investigator)
The Role of ATM Loss and the ATR-CHK1 Pathway in Bladder Cancer
- 2015-2016 Pittsburgh Foundation, Learmonth Fund 9/01/2015-8/31/2016
AD2015-79907
Defects in the ATR/CHEK1 Pathway: A Direct Route Towards Efficacious Biomarker-Driven, Patient Tailored Cancer Therapy for Bladder Cancer
- 2016-present Research funding from the Joan G. Gaines Cancer Research Fund at the University of Pittsburgh (includes funding from the Tabachnick Family and Bernstein Family Foundations and via the Allegheny County (PA) United Way).
- 2016-2017 Pittsburgh Foundation, Learmonth Fund 9/01/2016-8/31/2017
AD2016-87688
Defects in the ATR/CHEK1 Pathway: A Direct Route Towards Efficacious Biomarker-Driven, Patient Tailored Cancer Therapy for Cancer

Grants and Contracts Received (continued)

2017-2018 Pittsburgh Foundation, Learmonth Fund 9/01/2017-8/31/2018
AD2017-92949
Defects in the ATR/CHEK1 Pathway: A Direct Route Towards Efficacious
Biomarker-Driven, Patient Tailored Cancer Therapy for Cancer

Invited Lectureships and Major Seminars Related to Research

December, 1988 Invited Lecture at the Pittsburgh Cancer Institute Scientific Retreat
on Chromosomes in Human Solid Tumors.

January, 1993 Presented a summary of my research interests to the Medical
Scientist Training Program students.

June, 1993 Presented an invited seminar on p53 Abnormalities in Oral
Squamous Cell Carcinoma as part of the Seminar Series on Head
and Neck Oncology Research.

April, 1994 Presented the Department of Human Genetics weekly seminar
(4/1/94) on Genetic Analysis of Oral Squamous Cell Carcinoma

January, 1995 Presented Magee Womens Research Institute Seminar entitled
"Genetic Analysis of Oral Carcinoma."

January, 1995 Presented Head and Neck Cancer Research Seminar at the
University of Pittsburgh/Pittsburgh Cancer Institute entitled "Genetic
Analysis of Oral Carcinoma."

February, 1995 Presented the Biologic Therapy Research Conference at the
Pittsburgh Cancer Institute on "Cyclin D1 Amplification and Other
Genetic Changes in Oral Carcinoma."

September, 1995 Converging classical cytogenetic, molecular cytogenetic, and
molecular genetic analyses of oral carcinoma. Symposium on Head
and Neck Cancer, Heinrich Heine University, Düsseldorf, Germany.

October 2, 1995 Seminar. Chromosomal chaos in oral carcinoma. Netherlands
Cancer Institute, Amsterdam.

October 4, 1995 Seminar. Genetic analysis of oral carcinoma. Domagk-Institut für
Pathologie Westfälische Wilhelms-Universität, Münster, Germany.

November, 1995 Seminar. Chromosomal chaos in oral carcinoma. Deutsches
Krebsforschungszentrum, Heidelberg, Germany.

Invited Lectureships and Major Seminars Related to Research (continued)

- December, 1995 Seminar. Chromosomal chaos in oral carcinoma. Johannes Gutenberg University Medical School, Mainz, Germany.
- January 30, 1996 Invited lecture, Classical and molecular cytogenetic analysis combined with immunohistochemistry reveals chromosomal instability (CIN) and cytoskeletal defects in oral squamous cell carcinoma (OSCC) cells, Eighth International Workshop on Chromosomes in Solid Tumors, Tucson, AZ
- October 11, 1996 Seminar. Chromosomal chaos in oral carcinoma. Department of Human Genetics, University of Pittsburgh Graduate School of Public Health.
- October 28, 1996 Seminar. Chromosomal chaos in oral carcinoma. Center for Craniofacial Molecular Biology, University of Southern California School of Dentistry, Los Angeles, CA.
- March 31, 1997 Overview of our Oral Cancer Research Studies, Otolaryngology Tumor Board, University of Pittsburgh School of Medicine
- January 13, 1998 Seminar. Chromosomal chaos in oral carcinoma. Johannes Gutenberg University Medical School, Mainz, Germany.
- January 15, 1998 Invited Speaker and Session Chair, International Symposium on Metastases in Head and Neck Cancer, January 15-18, 1998, Kiel Germany.
- January 20, 1998 Seminar. Chromosomal chaos in oral carcinoma. Dept. of Otorhinolaryngology, Charite, Humboldt-University, Berlin, Germany.
- May 15, 1998 Pharmacology Department Seminar, University of Pittsburgh School of Medicine, "Chromosomal Chaos in Oral Carcinoma"
- May 21, 1998 Seminar in the Mayo Foundation Genetics Society, "Chromosomal Chaos in Oral Carcinoma"
- October 2, 1998 Seminar. Chromosomal Chaos in Oral Carcinoma. Department of Human Genetics, University of Pittsburgh Graduate School of Public Health.
- November, 1998 Seminar. Chromosomal Chaos in Oral Carcinoma. Department of Environmental and Occupational Health, University of Pittsburgh Graduate School of Public Health.

Invited Lectureships and Major Seminars Related to Research (continued)

- December, 1998 Presented recent research findings at the University of Pittsburgh Clinical Genetics Case Conference
- November, 1999 Seminar in the Department of Medical Pathology, Texas A & M University Medical School, College Station, Texas, "Chromosomal Chaos in Oral Carcinoma"
- December, 1999 University of Pittsburgh Cancer Institute Seminar, "Chromosomal Chaos in Oral Carcinoma"
- February, 2000 University of Pittsburgh School of Medicine, Ear, Nose, and Throat Grand Rounds Seminar, "Genetic Instability in Oral Cancer"
- March 31, 2000 Human Genetics Seminar, UCLA School of Medicine and the UCLA School of Dental Medicine, "Chromosomal Chaos in Oral Cancer", Los Angeles, CA.
- April 3, 2000 Seminar, "Chromosomal Alterations in Oral Cancer Cells" to the Center for Craniofacial Molecular Biology, University of Southern California School of Dentistry, Los Angeles, CA.
- June 23, 2000 Seminar, "Chromosomal Alterations in Oral Cancer Cells" to the Oral Cancer Center at the University of Pittsburgh.
- July 31, 2000 Panel Co-Moderator, Oral and Nasopharynx - Tumor Genetics, and invited speaker, 11q13 gene amplification in oral cancer cells appears to occur via breakage-fusion-bridge cycles, 5th International Conference on Head and Neck Cancer, San Francisco, CA
- August, 2000 Invited seminar: Chromosomal Instability in Oral Cancer Cells, University of Chicago Departments of Hematology and Oncology and Genetics, Chicago, IL
- January, 2001 Invited to present a keynote address at the International Symposium on Metastases in Head and Neck Cancer - Advances in Experimental and Clinical Research, Marburg, Germany, January 25-27, 2001; Title: "On the basis of chromosomal instability in oral cancer."
- January, 2001 Invited to present seminars at Justus-Liebig-Universität Giessen, Institut für Humangenetik and Ludwig-Maximilians Universität München, Institut für Anthropologie und Humangenetik. Title: "Chromosomal Alterations in Oral Carcinoma Cells."

Invited Lectureships and Major Seminars Related to Research (continued)

- March, 2001 Invited by the National Cancer Institute to participate in the 2nd US-Japanese Cancer Research Collaborative Conference in Tokyo, Japan and present a lecture on Chromosomal Instability in Oral Cancer Cells.
- April 12, 2001 Invited seminar: Chromosomal Instability in Oral Cancer Cells, University of Pittsburgh Dental School Grand Rounds.
- November, 2001 Invited seminar: Chromosomal Instability in Oral Carcinoma Cells, Pittsburgh Development Center.
- April 26, 2002 Invited seminar: Dissection of the 11q13 Amplicon in Oral Cancer Cells, Oral Cancer Center of the University of Pittsburgh.
- May, 2002 Invited seminar: Chromosomal Instability in Oral Carcinoma Cells: Reflections on the Nature of Cancer Cells, Arkansas Cancer Research Center Forum, University of Arkansas for Medical Sciences, Little Rock, AR.
- July 1, 2002 Invited seminar: Chromosomal Instability in Oral Carcinoma Cells, Department of Pathology, Northwestern University Feinberg School of Medicine
- April, 2003 Invited lecture: "Chromosomal Instability in Oral Carcinoma Cells. A Tale of Chromosomal Aberrations and Cytoskeletal Alterations," Center for Medical Genetics, University of Miami.
- May 16, 2003 Invited lecture: "Chromosomal Instability in Oral Carcinoma Cells. A Tale of Chromosomal Aberrations and Cytoskeletal Alterations," Division of Hematology/Oncology and the Robert H. Lurie Comprehensive Cancer Center of Northwestern University Grand Rounds.
- June, 2003 Invited speaker, Association of Genetic Technologists Annual Meeting, Atlanta, GA
- November, 2003 Invited lecture: "Chromosomal Instability in Oral Carcinoma Cells. A Tale of Chromosomal Aberrations and Cytoskeletal Alterations," Dental Research Institute, University of California at Los Angeles.
- February, 2004 Invited lecture: "On the Basis of Chromosomal Instability in Oral Carcinoma Cells. University of Pittsburgh Cancer Institute Basic Science Seminar Series.
- March 14, 2005 Lecture to Head & Neck SPORE group, University of Pittsburgh

Invited Lectureships and Major Seminars Related to Research (continued)

- April, 2005 Keynote Oration, Symposium Lecture, and Member of the Scientific Committee, 10th International Congress on Oral Cancer, Crete, Greece
- May 6, 2005 Seminar, Winship Cancer Institute, Emory University School of Medicine
- May 26, 2005 Seminar, Women's Cancer Research Seminar Series, Magee-Womens Research Institute
- January 21, 2006 Keynote lecture at the First Dhirubhai Ambani Life Sciences Symposium, International Symposium on Preventive and Predictive Molecular Diagnostics, Mumbai, India
- April 26, 2006 Invited seminar at the University of Connecticut Medical Center, Farmington, Connecticut
- April 27-28, 2006 Invited participant, Fanconi Anemia Research Fund Squamous Cell Carcinoma Conference, Bethesda, Maryland
- May 26, 2006 Invited lecture at the 77th Meeting of the German Society of Oto-Rhino-Laryngology, Head and Neck Surgery, Mannheim, Germany
- Nov. 9, 2006 Invited seminar at the University of Iowa Medical Center, Iowa City, Iowa
- February 5, 2007 Invited seminar at Mayo Clinic, Rochester, Minnesota on 'Mechanisms Leading to Chromosomal Instability in Cancer Cells'
- March 21, 2007 Invited seminar, 'Chromosomal Instability and DNA Damage Response Genes in Cancer Cells,' Work in Progress Seminar Series, University of Pittsburgh Cancer Institute
- April 13, 2007 Invited seminar, 'Mechanisms Leading to Chromosomal Instability in Cancer Cells, Department of Pathology, LAC+USC Medical Center and the USC Keck School of Medicine Pathology and Laboratory Medicine Grand Rounds, Los Angeles, CA
- October 18, 2007 Invited seminar, "Smoking, Chromosomal Instability, the DNA Damage Response, and Cancer: A Tangled Web", Department of Environmental and Occupational Health, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA

Invited Lectureships and Major Seminars Related to Research (continued)

- January 31, 2008 Invited lecture, "Chromosomal Instability in Oral Cancer Cells: A Generalizable Model System for Cancer." Second Conference on Aneuploidy and Cancer, Society for Chromosomal Cancer Research, Oakland, CA
- January 24, 2009 Keynote lecture at the Fourth Dhirubhai Ambani Life Sciences Symposium, International Symposium on Advances in Molecular Medicine and Clinical Implications, "Recent Trends in Cytogenetic Testing – From Constitutional Disorders to Cancer," Mumbai, India
- September 13, 2010 Cleveland Clinic, Genomic Medicine Institute's Seminar Series, "A DNA Damage Response Defect that is a Biomarker of Poor Prognosis, Radioresistance, and a Companion Diagnostic for Therapeutic Intervention in Carcinomas."
- February 21, 2011 Head & Neck SPORE Meeting, "A DNA Damage Response Defect that is a Biomarker of Poor Prognosis, Radioresistance, and a Companion Diagnostic for Therapeutic Intervention in Carcinomas."
- March 16-17, 2012 Invited participation in the Fanconi Anemia Research Fund Conference on Squamous Cell Carcinoma in Fanconi Anemia Patients, Hilton Chicago O'Hare Airport Hotel
- November, 2013 Invited Seminar, Cancer Biology Seminar Series, Hawai'i Cancer Center, "CHEKing Cancer: A Personalized Genomic Approach to Therapeutic Intervention."
- March 30, 2016 Invited Seminar, Chromosomal Instability in Oral Cancer Cells: Insights into Cancer Biology and Therapeutic Resistance from Bedside to Bench and Back, Cancer Cell Biology Seminar Series, West Virginia University Cancer Institute

Training

- 1988-Present Train Pathology Residents and Hematopathology Fellows in Clinical Cancer Cytogenetics
- 1989 Mentor, Chancellor's Undergraduate Research Fellow, Michael J. Vallor (two published abstracts); Ph.D., Educator, Atonement Academy, Catholic Diocese of San Antonio, Texas.
- 1989 Mentor, Public Health Career Opportunities Program, Ms. Janice A. Washington (one publication).

Training (continued)

- 1988-1990 Chairman, Masters Committee, Ms. Pamela L. Wyman, Department of Human Genetics. Thesis title: The mechanism of induction of chromosomal fragile site Xq27. One abstract published. Worked as a Genetic Counselor at the Robert Wood Johnson Medical School and is currently raising her family.
- 1988-1991 Mentor, Postdoctoral Research Associate, Patrick D. Storto, Ph.D. Present position: Assistant Professor of Pediatrics and Human Development and Director, Cytogenetics Laboratory, Michigan State University. Diplomate, American Board of Medical Genetics. Five manuscripts published and seven published abstracts.
- 1989-1991 Chairman, Masters Committee, Ms. Maureen E. Sherer, Department of Human Genetics. Thesis title: Cytogenetic characterization of established head and neck squamous cell carcinoma cell lines. One published letter and three published abstracts; a comprehensive manuscript, combining the work of Ms. Sherer and Ms. Lori Boehm is in preparation by Ms. C. Lese, concurrent doctoral student. Current position: Senior Technologist, The Pittsburgh Cytogenetics Laboratory at UPMC Magee Womens Hospital.
- 1990 Member, Masters Committee, Ms. Michelle Phillips, Department of Human Genetics.
- 1990-1991 Mentor, Suguna Sankary Parameswaran, Ph.D., Postdoctoral Fellow, Government of India Fellowship. Currently with her husband in Australia, raising her young family. Two manuscripts and three abstracts published.
- 1990-1991 Member, Masters Committee, Ms. Bridget McCarthy, Department of Human Genetics.
- 1990-1991 Member, Ph.D. Committee, Ms. Abirami Chidambaram, Department of Human Genetics.
- 1990-1991 Chairman, Masters Committee, Ms. H. Melanie Bedford, Department of Human Genetics. Thesis title: Molecular cytogenetic analysis of cholangiocarcinoma using fluorescence in situ hybridization. One manuscript and four abstracts published; one additional manuscript submitted for publication. Current position: Clinical Geneticist (M.D.), North York General Hospital, Toronto, Ontario, Canada.

Training (continued)

- 1990-1991 Chairman, Masters Committee, Ms. Robin Grubs, Department of Human Genetics. Thesis title: On the origin of dicentric chromosomes in a cholangiocarcinoma cell line. One abstract published; manuscript in preparation for publication. Previous position: Genetic counselor, Department of Pediatrics, Bowman-Gray Medical School, Winston-Salem, NC. Current position: Ph.D., LCGC Assistant Professor and Director, Genetic Counseling Program, Department of Human Genetics, University of Pittsburgh.
- 1990-1991 Chairman, Masters Committee, Ms. Lori Boehm (Finn), Department of Human Genetics. Thesis title: Cytogenetic analysis of paired head and neck squamous cell carcinoma cell lines derived from primary and recurrent tumors. One abstract published; A comprehensive manuscript combining the work of Ms. Maureen Sherer and Ms. Boehm is in preparation by Dr. C. Lese. Current position: Genetic counselor, Northwestern Memorial Hospital, Chicago, IL.
- 1990 Mentor, Public Health Career Opportunities Program, Ms. Shara'el Alston.
- 1990 Mentor, Minority Research Apprenticeship Program, Ms. Tanya R. Lewis.
- 1991, 1992 Mentor, Richard Sherwin, Ph.D., Jack B. and Mary Ellen McConnell
1993, 1994 Professor and Chair of Biology, Emory and Henry College, Virginia
- 1995, 1996 Laboratory Visitor and trainee in Cytogenetics, June-August, 1991, 1992, 1993, and 1994. Sabbatical Year: 1995-1996 (Lecturer, Biological Sciences, University of Pittsburgh). Two manuscripts published and two published abstracts as a result of efforts in our laboratory.
- 1991 Mentor, Ms. Erika Clark, Commonwealth Fund Fellow in Academic Medicine, Summer, 1991. Current Position: Private Practice, Obstetrics and Gynecology, North Carolina. One published abstract as a result of her work in our laboratory.
- 1991-1992 Mentor, Ms. Kimberly Novobilsky, High School Senior, South Allegheny High School and Pittsburgh Cancer Institute Volunteer doing a project in my laboratory for school credit, 4 hours per week. (Current position: B.S., Biology, Case Western Reserve University; Technologist, Case Western Reserve University Cytogenetics Laboratory).

Training (continued)

- 1991 Mentor, Ms. Cherie Richey, the Ellis School. Volunteer experience prior to high school graduation. (President of the Senior Class at Bryn Mawr College; graduate of the University of Pittsburgh School of Medicine).
- 1991-1992 Chairman, Masters Committee, Ms. Lara Ko, Department of Human Genetics. Thesis title: Chromosome painting to identify the 2;13 translocation in rhabdomyosarcoma. Manuscript in preparation. Current position: Genetic counselor, formerly at the Center for Human Genetics, Case Western Reserve University, Cleveland, OH; now in California.
- 1991-1992 Member, Masters Committee, Ms. Lisa Schwartz, Department of Human Genetics.
- 1991 Member, Ph.D. Comprehensive and Proposal Defense Committees, Chen Wei Lin, Department of Human Genetics.
- 1991-1994 Mentor, Carmelita Alvares, M.D., Postdoctoral Fellow, Department of Pathology, Cancer in Transplant Recipients Grant. One publication, three published abstracts, and three manuscripts in preparation as a result of her efforts in our laboratory. Current position: Staff Pathologist, Via Christi Regional Medical Center, Wichita, KS.
- 1992-1993 Member, Ph.D. Comprehensive and Proposal Defense Committees, Ms. Jie Hu, Department of Human Genetics. Currently, Assistant Professor of OB-Gyn, University of Pittsburgh School of Medicine.
- 1991-1993 Chairman, Masters Committee, Ms. Ann Lucas, Department of Human Genetics. Thesis title: Chromosomal aneuploidy in congenital fibrosarcoma and fibromatosis. Two published abstracts and one manuscript in preparation. Current position: Genetic counselor, Carolinas Medical Center, Charlotte, NC.
- 1991-1993 Chairman, Masters Committee, Ms. Michele Bruno, Department of Human Genetics. Thesis title: p53 abnormalities in oral squamous cell carcinoma. Two published abstracts and one manuscript in preparation. Current position: Genetic counselor, Cooper Hospital, Camden, NJ.

Training (continued)

- 1992-1996 Mentor and Committee Chair, Ms. Christa M. Lese, (now Christa Lese Martin) Doctoral student, Department of Human Genetics. One manuscript and ten published abstracts as a result of her efforts in the laboratory. Director, Autism and Developmental Medicine Institute and Senior Investigator, Geisinger Health System, Lewisburg, PA.
- 1993-1994 Mentor, Ms. Tomicka Jackson, Jean Hamilton Walls (Summer) Research Intern, University Challenge for Excellence Program, University of Pittsburgh.
- 1994-1996 Mentor, Ms. Tomicka Jackson, Minority Undergraduate Student Researcher, National Institute for Dental Research Grant Supplement. 1996 Winner AACR Minority Travel Award. Graduated from the University of Pittsburgh School of Dental Medicine as President of her class. Practicing Dentist, Greensburg, PA.
- 1993 Member, Ph.D. Qualifying Exam Committee, Ernst ter Haar, Department of Environmental and Occupational Health, University of Pittsburgh Graduate School of Public Health (GSPH).
- 1993 Member, Ph.D. Preliminary Exam Committee, Mesheng Chen, Department of Infectious Diseases and Microbiology, GSPH.
- 1994 Member, Masters Committee, Ms. Faith Wilt, Department of Human Genetics.
- 1994-1995 Chairman, Masters Committee, Ms. Panina Licht, Department of Human Genetics.
- 1995 Member, Ph.D. School-wide Qualifying Exam Committee, Ms. Cynthia Graham, Department of Environmental and Occupational Health, University of Pittsburgh Graduate School of Public Health (GSPH).
- 1995 Member, Masters Committee, Ms. Kelly Beaudry, Department of Human Genetics.
- 1995 Member, Ph.D. Preliminary Exam Committee, Lian Zheng, Department of Infectious Diseases and Microbiology, GSPH.
- 1995-1996 Member, Masters Committee, Ms. Amy Mank-Seymour, Department of Human Genetics.

Training (continued)

- 1995-1996 Chairman, Masters Committee, Ms. Shalini Reshmi, Department of Human Genetics. Prior position: 5/1/96 Fluorescence in situ hybridization laboratory supervisor, Laboratory of Dr. Janet Rowley, Department of Medicine, University of Chicago School of Medicine. Currently, Associate Director, Cytogenetics/Molecular Genetics Laboratory, Nationwide Children's Hospital, The Ohio State University.
- 1995 Scientist Co-Sponsor with Sheila M. Dobin, Ph.D., Mentor, 1995 American Society for Cell Biology Summer Teacher Research Fellowship to Ms. Susan Terry, Temple High School, Temple, TX.
- 1995 Mentor, Public Health Career Opportunities Program, Lamar Eaton and Don Tillman.
- 1996 Member, Ph.D. Qualifying Exam Committee, Zi-Wei Yang, Department of Human Genetics, GSPH.
- 1996-1998 Mentor, Michele Shuster, Ph.D., Postdoctoral Fellow, Department of Human Genetics. Earned a NIDCR fellowship (F32DE005707) and published six papers with our group, three as first author. Currently Associate Professor, Science Education and Genetics, Biology Department, New Mexico State University, Las Cruces, NM.
- 1996 Mentor, Ms. Rosemary Iwunze, Quest Program (Summer) Research Intern, University Challenge for Excellence Program, University of Pittsburgh. Currently, M.D., Infectious Disease Fellow Jackson Memorial Health System/ University of Miami Miller School of Medicine.
- 1996-1997 Mentor, Kouichiro Tsutsumi, M.D., Ph.D., Visiting Scholar, Department of Otolaryngology (St. Marianna University School of Medicine, Kawasaki, Japan).
- 1996-1997 Mentor, PD Ulrike Bockmühl, M.D., Visiting Scholar, Department of Human Genetics (Dept. Otorhinolaryngology, Humboldt-University, Berlin, Germany). Currently Chief of the Department of Otorhinolaryngology, Head and Neck and Facial Plastic Surgery at the Hospital in Kassel, Germany.
- 1997 Mentor, Ms. Kristin Williams, Quest Program (Summer) Research Intern, University Challenge for Excellence Program, University of Pittsburgh.

Training (continued)

- 1997-2002 Mentor, Xin Huang, Doctoral candidate, Department of Human Genetics. Ph.D. August 29, 2002. Currently, Assistant Professor of Obstetrics, Gynecology, and Reproductive Sciences, University of Pittsburgh School of Medicine and Magee-Womens Research Institute.
- 1997-1999 Mentor, Ms. Milea Perry, (minority) student researcher from Schenley High School, Pittsburgh, PA. Next, college student, Xavier University, New Orleans, LA.
- 1997-1998
1998-1999 Mentor, Burhan Gharaibeh, Ph.D., volunteer Postdoctoral Fellow, Postdoctoral Fellow, Department of Human Genetics. Currently Senior Researcher (Special Faculty) at the Institute for Complex Engineered Systems (ICES), Carnegie Mellon University.
- 1998 Mentor, Ms. Rosemary Iwunze (University of Pittsburgh) and Charles Taggart (Schenley High School), Summer University Challenge for Excellence Students. Current: Practicing Internal Medicine / Hospitalist, Suburban Hospital/Johns Hopkins Medicine, Bethesda, MD.
- 1998 Mentor, Charles Taggart, (minority) student researcher from Schenley High School, Pittsburgh, PA
- 1998 Member, Masters Committee, Ms. Diane Lucente, Department of Human Genetics.
- 1998-2002 Chairman, Masters Committee, Ms. Kimberly Joseph (now McCarter, Ph.D.), Department of Human Genetics. Present Position: Teacher Huntington High School, Shreveport, LA.
- 1999 Member, Qualifying Exam Committee, Ms. Fen-fen Wu, Doctoral candidate, Department of Human Genetics
- 1999 Preceptor, Ms. Debbi-Jamese McKinnon (University of Pittsburgh), Summer Premedical Academic Enrichment Program, University of Pittsburgh School of Medicine
- 1999 Member, M.S. Final Examination Committee, Zi-Wei Yang, Department of Human Genetics, GSPH.
- Summer, 1999 Mentor, Ms. Suphan Bakkal, visitor from Istanbul, Turkey. Earned a Ph.D. in Biology, University of Massachusetts, Amherst in 2010. Instructor, Sabanci University, Istanbul, Turkey.

Training (continued)

- 1999 Our Pathology resident won the Summer Quarterly Web Case Award in Laboratory Medicine. Wen-wei Chung, #206, Intermittent confusion, fever of unknown origin and lower extremity weakness, with Drs. Martinez, Gollin, Shekhter-Levin, and Contis.
- 2000 Mentor, Ms. Debbi-Jamese McKinnon (University of Pittsburgh), Jean Hamilton Walls Scholar, University of Pittsburgh Challenge for Excellence (UCEP) Program
- Summer, 2000 Mentor, Mr. John Kim, Predental Student and Deans Research Fellow, University of Pittsburgh School of Dental Medicine.
- July 14, 2000 Member, Preliminary Exam Committee, Ms. Anna Noller, Department of Infectious Diseases and Microbiology, GSPH.
- 2000 Member, Dissertation Committee, Ms. Camille Rose, Department of Infectious Diseases and Microbiology, GSPH. Completed requirements, December, 2000.
- 2001-2006 Mentor, Dr. Camille Rose Ragin, NCI Cancer Education and Career Development Postdoctoral Fellow, University of Pittsburgh Cancer Institute
- 2006-2007 Co-Mentor, Camille Rose Ragin, Ph.D., M.P.H., Postdoctoral Fellow, University of Pittsburgh Cancer Institute
- 2007-2008 Co-Mentor, Camille Rose Ragin, Ph.D., M.P.H., Visiting Assistant Professor of Epidemiology, University of Pittsburgh Graduate School of Public Health and the University of Pittsburgh Cancer Institute (K12 Award). Current Position, Associate Professor of Epidemiology, Temple University and Fox Chase Cancer Center.
- 2001, 2002 Mentor, Ms. Andrea Durst, Summer Intern from Cornell University. Currently, M.S., DrPH, CGC, Assistant Professor and Assistant Director, Genetic Counseling Training Program, University of Pittsburgh Graduate School of Public Health.
- Fall, 2001 Mentor, Undergraduate Independent Study Student, Ms. Amber Sabitus
- 2002-2003 Mentor, Honors College Student, Ms. Amber Sabitus; who went on to earn a D.D.S. from the University of Pennsylvania.

Training (continued)

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| 2001-2005 | Mentor and Committee Chair, Ph.D. student in Human Genetics, Ms. Shalini Reshmi, M.S.; Ph.D. April, 2005; Postdoctoral Fellowship, Dept. of Human Genetics, University of Chicago, IL. Currently, Associate Director, Cytogenetics/Molecular Genetics Laboratory, Nationwide Children's Hospital, The Ohio State University. |
| June 13, 2002 | Member, Preliminary Exam Committee, Ms. Shauna Clark, Department of Infectious Diseases and Microbiology, GSPH. |
| Summer, 2002 | Mentor, Summer Volunteer, Mr. Joshua Musicante, Yeshiva University. |
| August, 2002 | Mentor and Committee Chair, Ph.D. Final Exam Committee, Xin Huang, M.S., Department of Human Genetics. Currently, Assistant Professor of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh School of Medicine. |
| 2002-2006 | Mentor and Committee Chair, Rahul Atul Parikh, M.D., Doctoral Student, Department of Human Genetics. Assistant Professor of Medical Oncology, University of Pittsburgh School of Medicine and Hillman Cancer Center. 12/1/2017. Associate Professor and Director of Urogenital Oncology, University of Kansas Medical School and Cancer Center. |
| June, 2003 | Member, Doctoral Qualifying Exam Committee, Ms. Michaelae Armstrong, Department of Human Genetics |
| Summer, 2003 | Mentor, Ms. Barbara Marven, Biotechnology Certificate Program student, Community College of Allegheny County |
| Fall, 2003 | Mentor, Dr. Susanta Roychoudhury, Fogarty Fellow, Associate Professor, Human Genetics and Genomics Division, Indian Institute of Chemical Biology, Kolkata, India |
| 2003-2006 | Mentor, Dr. Jason White, NCI Cancer Education and Career Development Postdoctoral Fellow, University of Pittsburgh Cancer Institute. Industry. |
| Dec. 4, 2004 | Member, Preliminary Exam Committee, Molly Stitt, Environmental and Occupational Health, GSPH |
| 2004 | Chairman, Preliminary Exam Committee, Rahul Atul Parikh, M.D., Department of Human Genetics. |

Training (continued)

- 2004-2005 Mentor, David Schoppy, Brackenridge Scholar and Undergraduate Researcher, University of Pittsburgh; M.D., Ph.D., University of Pennsylvania College of Medicine; Otolaryngology Residency, Stanford University.
- June 10, 2004 Member, Preliminary Exam Committee, Jayanth VN, Dept. of Infectious Diseases and Microbiology, University of Pittsburgh GSPH.
- 2005-2008 Member, Ph.D. Committee, Dan Handley, Department of Human Genetics (Mentor: Naftali Kaminski, M.D.). Currently, Dan Handley Science Media, LLC, produced documentary film, *Undaunted: The Forgotten Giants of the Allegheny Observatory* (2012).
- 2005-2009 Mentor, Dr. Brian Henson, NIH Kirschstein Postdoctoral Scholar (F32CA119725). Lab Manager, Inherited Cancer Program at GeneDx.
- 2005-2007 Mentor and Committee Chair, Sarah Grams, Genetic Counseling M.S., Thesis title: A Case-Control Study of *ATM* and Susceptibility to Squamous Cell Carcinoma of the Head and Neck. Genetic Counselor, Kaiser Permanente, San Francisco, California.
- Summer, 2006
Spring, 2008 Mentor, Ms. Christina Cox, student from North Carolina State University, University of Pittsburgh School of Medicine Summer Premedical Academic Enrichment Program. Mentor, Senior Research Project, NCSU.
- 2006-2011 Committee Member, Rama Rao Damerla, Ph.D. Student, Human Genetics (Mentor: Patricia Opresko, Ph.D.)
- 2006-2010 Committee Member, Olga Momcilovic, Ph.D. Student, Human Genetics (Mentor: Christopher Navara, Ph.D./Gerald Schatten, Ph.D.)
- 2006-2011 Committee Member, Nikhil Bhagwat, M.D., Ph.D. Student, Human Genetics (Mentor: Laura Niedernhofer, M.D., Ph.D.)
- 2006-2009 Chair, M.S. Committee of Fulbright Scholar, Rafael Ernesto Flores-Obando from Nicaragua, Department of Human Genetics, University of Pittsburgh GSPH.
- June, 2007 Mentor Ellis School Student Senior (High School) Project, Ms. Erica Washington

Training (continued)

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| Fall, 2007 | Research Mentor, Senthil Thillainathan, Undergraduate Student, University of Pittsburgh |
| 2007-2012 | Committee Member, Andria Robinson, Ph.D. Student, Human Genetics (Mentor, Laura Niedernhofer, M.D., Ph.D.). The Contribution of DNA Interstrand Crosslinks to Aging. |
| 2007-2011 | Committee Member, Wan Zhu, Ph.D. Student, Human Genetics (Mentor, Robert Nicholls, Sc.D.). Mechanisms and Functional Roles of Nuclear Respiratory Factor 1 (NRF1) Binding Sites in the Human Genome. |
| Fall, 2008-2010 | Research Mentor, Alexandra Arndt, Undergraduate Honors College Graduate, University of Pittsburgh. Cancer Genetics, Inc. |
| 2008-2014 | Committee Chair, Sharanya Devi Sampath Kumar, Ph.D. Student, Human Genetics (Mentor, Alan Wells, M.D., Ph.D.). |
| 2008-2012 | Committee Member, Advaita Madireddy, Ph.D. Student, Human Genetics (Mentor, Laura Niedernhofer, M.D., Ph.D.). Linking the Multiple Functions of XPF-ERCC1 Endonuclease in DNA Repair to Health Outcomes: Cancer and Aging |
| 2008-2013 | Mentor and Committee Chair, Ph.D. Human Genetics Student, Madhav Sankunny, M.S. The Role of the ATR-CHEK1 Pathway in Therapeutic Resistance Resulting from Distal 11q Loss in Carcinoma Cells. Postdoctoral Fellow, Cleveland Clinic Genomic Medicine Institute. |
| 2009-2012 | Mentor, Visiting Scientist, Feng Yuanxi, M.D., Ph.D. Student, Department of Genetics, Harbin Medical University, China |
| 2010-2012 | Committee Member, Kristine Bachman, M.S. Genetic Counseling Student, Human Genetics. Chromosome Abnormalities in Neonates with Congenital Heart Defects. |
| 2005-2006 | Research co-Mentor, Uma Duuvuri, M.D., Ph.D., Otolaryngology Resident. Assistant Professor of Otolaryngology, University of Pittsburgh. |
| 2010-2012 | Committee Member, Rachel Pearlman, M.S. Genetic Counseling Student, Human Genetics. Understanding the Beliefs of Ashkenazi Jewish Individuals regarding Cancer Genetic Counseling Services. |

Training (continued)

- Summer/Fall 2011 Mentor, Sarah Bishop, Brackenridge Scholar and Christine Toretti (USX) Research Scholar, Junior at the University of Pittsburgh.
- 2011-2016 Mentor, Hatem Kaseb, M.D., Fulbright Scholar Ph.D. student (Egypt), Dept. of Human Genetics. Graduated April, 2016. Pathology Resident, Yale University Medical School, July, 2016.
- 2011-2012 Research Mentor, Rahul Atul Parikh, M.D., Ph.D., Oncology Fellow, Hillman Cancer Center, University of Pittsburgh Cancer Institute; Assistant Professor of Medical Oncology, University of Pittsburgh School of Medicine and Hillman Cancer Center.
- 2012-2014 Research Mentor, Ms. Megan Eshbach, Dietrich Summer Undergraduate Research Fellow and Undergraduate Honors College Brackenridge Fellow, University of Pittsburgh. Doctoral student in Human Genetics, University of Pittsburgh.
- 2013 Research Mentor, Ms. Megan Breski, M.S. Rotation Student, Dept. of Human Genetics.
- 2014-2015 Research Mentor, Mr. Chad Lawrence, M.S. Student, Dept. of Human Genetics. Graduated August, 2015. Cytogenetics/Cytogenomics Technologist, UPMC Magee-Womens Hospital.
- 2017 Research Mentor, Ms. Abena Ampofo, First Experiences in Research, The Dietrich School of Arts & Sciences, Office of Undergraduate Research, Scholarship, & Creative Activity, University of Pittsburgh.

Other Research and Training Activities:

Training Grant Participation:

- 2015-present Faculty Mentor, Developing Excellence in Leadership, Training and Science (DELTAS) Africa Initiative, A Partnership between the University of Ghana and the University of Pittsburgh, Solomon Ofori-Acquah, PI, Wellcome Trust Training Grant.

Other Research and Training Activities:

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| Journal Editorial Board | <i>Cytogenetics and Genome Research</i> (2005-present) <i>Genes, Chromosomes, & Cancer</i> (2007-present) <i>International Journal of Human Genetics</i> (2009-present) <i>The Open Otorhinolaryngology Journal</i> (2008-2012) <i>Melanoma Research</i> (2013-present) <i>Biomedicine Hub</i> (2015-present) |
| Journal Editorial Advisory Board | <i>Head & Neck Oncology</i> (2008-present) |
| Journal Referee (most recently): (Last two years only) | <i>Biomedicine Hub</i> , Karger (2017) <i>Cytogenetic & Genome Research</i> (2016) <i>Experimental Cell Research</i> (2016) <i>genes</i> (2017) <i>Genes, Chromosomes, and Cancer</i> (2018) <i>International Journal of Cancer</i> (2016) <i>Journal of Cancer Research and Clinical Oncology</i> (2017) <i>Journal of Global Oncology</i> (2018) <i>Journal of Pediatric Hematology and Oncology</i> (2018) <i>JNCCN—Journal of the National Comprehensive Cancer Network</i> (2016) <i>Melanoma Research</i> (2017) <i>Molecular Cytogenetics</i> (2018) <i>Oncology Reports</i> (2018) <i>OncoTarget</i> (2016) <i>Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology</i> (2016) <i>Revista Panamericana de Salud Pública / Pan American Journal of Public Health</i> (2016) <i>Scientific Reports</i> , Springer, Nature (2017) |

Service

- 1984-1987 Directed Clinical Cytogenetics Laboratory at Arkansas Children's Hospital. Caseload increased from approximately 350 to 1100 cases/year.
- 1984-1987 Cytogenetics laboratory inspector for the College of American Pathologists.
- 1984-1987 Member, Cytogenetics Committee, Pediatric Oncology Group.
- 1987 Member of the first Core Cytogenetics Committee of the Southwest Oncology Group. Participated in the pilot study concerning Chromosome Abnormalities in Myelodysplastic Syndromes.
- 1988-1999 Director, University of Pittsburgh Clinical Cytogenetics Laboratory (until it was merged with two other cytogenetics laboratories on campus, at which time I became Director of Research and Clinical Consultant, Pittsburgh Cytogenetics Laboratory, see 1999 listing below).
- 1988 Ad hoc member, Subcommittee on Biohazardous Waste Disposal of the University Health and Safety Committee.
- 1989-1992 Member, GSPH Safety and Security Committee.
- 1989-1991, 2001-2014 Member, Human Genetics Curriculum Committee
- May, 1989 Judge, International Science and Engineering Fair, Pittsburgh, PA
- 1989-1995 Founder and Coordinator, Pittsburgh Cytogenetics Club, a forum which meets bimonthly and fosters communication between professional and technical personnel from the five cytogenetics laboratories in Pittsburgh for intellectual discussions regarding difficult clinical cases, research progress, new information, techniques, and equipment related to classical and molecular cytogenetics.
- 1989-1991 Chairman, Medical Ethics and Civil Liberties Committee, Greater Pittsburgh Chapter, American Civil Liberties Union.
- 1989-2011 Director, University of Pittsburgh Cancer Institute (UPCI) Cytogenetics Facility.
- 1990 Member, Ad Hoc Study Section for Review of UPCI Postdoctoral Applicants.
- 1990 Moderator, Session on Cancer Cytogenetics, 28th Annual American Cytogenetics Conference, Baltimore, MD, March 14-17, 1990.

Service (continued)

- 1990-2000 Organizing Committee, American Cytogenetics Conference, 1991-1996, 1998, and 2000 meetings.
- 1991-1996 Member, Dean's Advisory Committee for the Pennsylvania Governor's School for Health Care Professions
- 1991-1992 Member, Search Committee, Molecular Biologist for skull base tumors. R. B. Herberman, Chairman.
- 1992 Moderator, Session on Cancer Cytogenetics, 30th Annual American Cytogenetics Conference, Virginia Beach, VA, March 15-18, 1992.
- 1992 Prepared section on students for the Department of Human Genetics Self Study Document.
- 1992 Drafted Affirmative Action Program for the Dept. of Human Genetics, University of Pittsburgh.
- 1992-1994 Member, Affirmative Action Committee, University of Pittsburgh Graduate School of Public Health.
- 1992-1997 Member, Faculty Senate Executive Committee, University of Pittsburgh Graduate School of Public Health.
- 1992 Member, UPCI Postdoctoral Fellowship Peer-Review Study Section.
- 1993 Moderator, Session on Cancer Cytogenetics, 31st Annual American Cytogenetics Conference, Port Ludlow, WA March 28-31, 1993.
- 1993 Representative of the Graduate School of Public Health, University Focus Group for Libraries and Information Sciences.
- 1993 Participated in the site visit for accreditation of the Graduate School of Public Health by the Council on Education in Public Health by representing the Department of Human Genetics in a meeting with the site visitors.
- 1993 Member, Search Committee, Research Assistant Professor, Genetics of Human Cancer, Department of Human Genetics, Robert E. Ferrell, Chairman.
- 1993 Member, Search Committee, Research Associate of Human Genetics, Department of Human Genetics, Robert E. Ferrell, Chairman.

Service (continued)

- 1993 Member, Search Committee, Research Assistant Professor of Human Genetics, Department of Human Genetics, John A. Barranger, Chairman.
- 1993-2014 Member, American Board of Medical Genetics Training Program Advisory Committee, University of Pittsburgh; Co-director of the Cytogenetics track.
- 1994 Moderator, Session on Cancer Cytogenetics, 32nd Annual American Cytogenetics Conference, Wintergreen, VA, April 23-26, 1994.
- 1994 Co-Chair, Genetics and Molecular Biology I Session, Fourth Research Workshop on the Biology, Prevention, and Treatment of Head and Neck Cancer, Arlington, VA, Sept. 8-11, 1994.
- 1994-1995 Vice President (elected), University of Pittsburgh Graduate School of Public Health Faculty Senate.
- 1994-1995 Program Co-chair, 33rd Annual American Cytogenetics Conference, San Diego, CA, April 1-4, 1995.
- 1995 Co-chair, Session on Genetic Changes in Head and Neck Cancer, Symposium on Head and Neck Cancer, Heinrich Heine University, Dusseldorf, Germany, September 14-16, 1995.
- 1996,1997 Invited to meet with Board of Visitors, University of Pittsburgh Graduate School of Public Health
- 1995-1996 Conference Co-chair, 34th Annual American Cytogenetics Conference, Seven Springs Resort, Champion, PA, May 4-7, 1996.
- 1996, 1997 Reviewer of Invention Disclosure, Technology Transfer Committee, Office of Technology Transfer and Intellectual Property, University of Pittsburgh.
1998,2002
- 1996 Reviewer, Breast Cancer Pilot Project Program, University of Pittsburgh Cancer Institute Comprehensive Breast Care Program.
- 1996 Member, Planning and Budgeting Committee, University of Pittsburgh Graduate School of Public Health.
- 1996 Ad hoc reviewer, Competitive Medical Research Fund Review Committee, University of Pittsburgh Office of Research, Health Sciences.
- 1996-1999 Elected Representative of the Dept. of Human Genetics, Faculty Advancement Committee, University of Pittsburgh Graduate School of Public Health.

Service (continued)

- 1996 Slide session co-moderator and abstract reviewer, Cancer Genetics, 46th American Society of Human Genetics Annual Meeting, San Francisco.
- 1996-1997 Member, Promotion and Tenure Committee, unnamed faculty member, University of Pittsburgh Graduate School of Public Health.
- 1996-1997 Reviewer of Funding Proposal and Invention Disclosure, Technology Transfer Committee, University of Michigan.
- 1997 Admissions Officer/Graduate Student Advisor, Department of Human Genetics, University of Pittsburgh Graduate School of Public Health
- 1997 Member, Promotion Committee, unnamed faculty member, University of Pittsburgh Graduate School of Public Health.
- 1997-1999 Member, 50th Anniversary Celebration - Planning and Implementation Committee, University of Pittsburgh Graduate School of Public Health
- 1997-2005 Member, Steering Committee and Search Committee for Director, University of Pittsburgh Cancer Institute Cancer Genetics Program
- Jan., 1998 Session Co-Chair, International Symposium on Metastases in Head and Neck Cancer, January 15-18, 1998, Kiel, Germany.
- Aug., 1998 Session Co-Chair, Genetics 1, Fifth Research Workshop on the Biology, Prevention and Treatment of Head and Neck Cancer, August 27-30, 1998, McLean, Virginia.
- 1999-present Director of Research and Clinical Consultant, Pittsburgh Cytogenetics Laboratory
- 1999 Chair, Promotion and Tenure Committee, unnamed faculty member, University of Pittsburgh Graduate School of Public Health; outcome: tenure was granted by the University
- 1999-2001 Member, Anti-discriminatory Policies Committee, a standing committee of the University of Pittsburgh Senate
- 1999-2004 Member, Committee on Awards, Health Sciences, University of Pittsburgh
- 1999-2000 Member, American Association for Cancer Research Membership Committee
- 2000-2003 Member, American Cancer Society Institutional Research Grant Review Committee, University of Pittsburgh Cancer Institute

Service (continued)

- 2000 Session Co-Chair, Oral & Nasopharynx Tumor Genetics, 5th International Conference on Head and Neck Cancer, San Francisco, CA
- 2000 Member, Graduate School of Public Health/Allegheny County Health Department Faculty-Agency Partnering Program
- Nov., 2000 Referee, Unnamed Candidate for Full Professor, unnamed Medical School in New York
- 2000-2005 Program Leader, Pilot Project Program, Oral Cancer Center at the University of Pittsburgh
- 2000-2002 Dept. of Human Genetics Representative, Educational Policies and Curriculum Committee, GSPH
- 2001-2005 Co-Coordinator, Graduate School of Public Health/Allegheny County Health Department Faculty-Agency Partnering Program
- May, 2001 Member, Chancellor's Affirmative Action Award Committee, University of Pittsburgh
- Fall, 2001 Referee for Promotion to Associate Professor, two unnamed faculty members at a well-respected International Research Institute.
- 2001 Member, ad hoc advisory committee on the Graduate School of Public Health curriculum vitae format
- Jan., 2001 Session Co-Chair, International Symposium on Metastases in Head and Neck Cancer - Advances in Experimental and Clinical Research, Marburg, Germany, January 25-27, 2001.
- 2001-2002 Member, Graduate School of Public Health Faculty Retreat Planning Committee
- May, 2001 Referee for Promotion to Associate Professor, an unnamed faculty member at a well-respected American Medical School
- Oct., 2001 Co-Chair, Session on Cytogenetics and Cancer Cytogenetics (with Dan Pinkel), American Society of Human Genetics Meeting, San Diego, CA
- 2001-2006 Member, Board of Scientific Counselors, Pittsburgh Development Center
- April, 2002 Referee for Promotion to Associate Professor, an unnamed faculty member at a well-respected American Medical School

Service (continued)

- 2002-2005 Chair, Tissue Bank Oversight Committee, Oral Cancer Center at the University of Pittsburgh
- Sept., 2002 Judge, Fifth Annual Poster Competition, Department of Infectious Diseases and Microbiology, University of Pittsburgh Graduate School of Public Health
- Oct., 2002 Session Co-Chair, Genetics, Sixth Research Workshop on the Biology, Prevention and Treatment of Head and Neck Cancer - October 9-13, 2002, McLean, Virginia
- 2003-2010 Member, University of Pittsburgh Cancer Institute Pre-Submission Grant Review Panel
- April, 2003 Organizer, DNA Day Symposium at the University of Pittsburgh Graduate School of Public Health: The Impact of DNA on Public Health (in honor of the 50th anniversary of the landmark Watson and Crick publication on the structure of DNA)
- April, 2004 Co-Moderator, Session on Cancer Genetics, American Cytogenetics Conference, Stevenson, Washington
- 2004-2007 Elected Member, University of Pittsburgh Faculty Senate Athletics Committee
- 2004-2005 Member, Scientific Committee, 10th International Congress on Oral Cancer, 19-24 April, 2005, Crete, Greece
- June, 2004 Co-Chair, Session on Chromosomes and Cancer, University of Pittsburgh Cancer Institute Scientific Retreat
- 2004 Human Genetics Department Representative, Faculty Advancement, Promotions, and Tenure Committee, University of Pittsburgh Graduate School of Public Health
- 2004-2006 Member, Search Committee, Chair, Department of Human Genetics, University of Pittsburgh Graduate School of Public Health
- 2005 Elected Member, Search Committee, Dean, University of Pittsburgh Graduate School of Public Health
- 2005 Abstract Reviewer, American Society of Human Genetics, 2005 Annual Meeting

Service (continued)

- 2005-2008 Elected Human Genetics Department Representative, Faculty Advancement, Promotions, and Tenure Committee, University of Pittsburgh Graduate School of Public Health
- Oct., 2005 Co-Chair, Session on Cancer Genetics (with Allen Bale), American Society of Human Genetics 2005 Annual Meeting, Salt Lake City, UT
- 2005 Member, University of Pittsburgh NCAA Athletics Certification Self-Study Steering Committee subcommittee on Governance and Commitment to Rules Compliance
- 2006-2008 Member, Advisory Committee on Head and Neck Cancer in Fanconi Anemia Patients, Fanconi Anemia Research Fund
- Oct., 2006 Co-Chair, Session on Cancer Genetics and Cytogenetics, American Society of Human Genetics 2006 Annual Meeting, New Orleans, LA and Session Moderator, the DNA Damage Response Pathway, Cancer Susceptibility, and the Public Health
- Oct., 2007 Appointed to Dean's Committee (B) to Oversee Progress of Junior Faculty, University of Pittsburgh Graduate School of Public Health
- Feb., 2009 Elected Secretary/Treasurer of the newly reactivated Sigma Xi Chapter at the University of Pittsburgh.
- April, 2009 Organized and held a fundraiser for the Joan G. Gaines Breast Cancer Research Fund at the University of Pittsburgh Cancer Institute
- Dec., 2009 Participated in the Phonathon for fundraising for the Department of Human Genetics and the University of Pittsburgh Graduate School of Public Health
- March, 2010 Organized and held a fundraiser for the Joan Gollin Gaines Breast Cancer Research Fund at the University of Pittsburgh Cancer Institute
- 2010-2012 Elected President of the Sigma Xi Chapter at the University of Pittsburgh.
- 2010-2014 Appointed Director of Graduate Student Recruitment, Orientation, and Alumni Affairs, Department of Human Genetics, University of Pittsburgh Graduate School of Public Health
- March, 2011 Referee for Promotion to Associate Professor, an unnamed faculty member at a well-respected American Medical School

Service (continued)

- 2011-2015 Human Genetics Department Representative, Faculty Advancement, Promotions, and Tenure Committee, University of Pittsburgh Graduate School of Public Health
- 2011-2017 Elected Member, University of Pittsburgh Faculty Senate Athletics Committee
- April, 2012 Organized and held a fundraiser for the Joan Gollin Gaines Cancer Research Fund at the University of Pittsburgh Graduate School of Public Health
- 2014-2015 Appointed Secretary/Treasurer of the Sigma Xi Chapter at the University of Pittsburgh.
- May 28, 2014 Organized and held a fundraiser for the Joan Gollin Gaines Cancer Research Fund at the University of Pittsburgh Graduate School of Public Health
- Nov. 12, 2014 Organized and held a fundraiser for the Joan Gollin Gaines Cancer Research Fund at the University of Pittsburgh Graduate School of Public Health
- April 2016- Designated Scientific Approver for IRB proposals, Dept. of Human Genetics, University of Pittsburgh Graduate School of Public Health
- April, 2017 Organized and held a fundraiser for the Joan Gollin Gaines Cancer Research Fund at the University of Pittsburgh Graduate School of Public Health
- 2017 Member Investigator, NIST Mouse Cell Line Authentication Consortium
- May, 2018 Referee for Appointment to Professor, an unnamed faculty member at a well-respected American Medical School

PUBLICATIONS

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1. **Gollin SM**, and King RC: Studies of *fs(1)1621*, a mutation that produces ovarian tumors in *Drosophila melanogaster*. *Develop. Genetics* 1981; 2:203-218.
2. Hanks SK, **Gollin SM**, Rao PN, Wray W, and Hittelman WN: Cell cycle-specific changes in the ultrastructural organization of prematurely condensed chromosomes. *Chromosoma* 1983; 88:333-342.
3. **Gollin SM**, and Wray W: A multisample chamber for dehydration and critical point drying. *J. Electron Microscopy Technique* 1984; 1:199-201.
4. **Gollin SM**, and Wray W: Isopycnic centrifugation of mammalian metaphase chromosomes in Nycodenz. *Exp. Cell Res.* 1984; 152:204-211.
5. **Gollin SM**, Wray W, Hanks SK, Hittelman WN, and Rao PN: The ultrastructural organization of prematurely condensed chromosomes. *J. Cell Sci. Suppl.* 1984; 1:203-221.
6. **Gollin SM**, Leary JF, Shoulson I, and Doherty RA: Flow cytometric detection of lymphocyte alterations in Huntington's disease. *Life Sci.* 1985; 36:619-626.
7. **Gollin SM**, Holmquist GP, and Ledbetter DH: Fra(10)(q25): The BrdU effect is substitution-dependent. *Am. J. Hum. Genet.* 1985; 37:208-214. PMID: PMC1684554.
8. **Gollin SM**, Bock HGO, Caskey CT, and Ledbetter DH: A new family with fra(10)(q25): Spontaneous expression and 100% expression with 100 uM BrdU. *Am. J. Med. Genet.* 1985; 21:643-648.
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10. Kletzel M, **Gollin SM**, Gloster ES, Golladay ES, Jimenez JF, and Berry DH: Chromosome abnormalities in familial hemophagocytic lymphohistiocytosis. *Cancer* 1986; 57(11):2513-2517.
11. Reynolds JF, Daniel A, Kelly TE, **Gollin SM**, Stephan MJ, Carey J, Adkins WN, Webb MJ, Char F, Jimenez JF, and Opitz J: Isochromosome 12p mosaicism (Pallister mosaic aneuploidy or Pallister-Killian syndrome): Report of 11 cases. *Am. J. Med. Genet.* 1987; 27:257-274.

* the first author is a student, fellow, or research associate of Dr. Gollin, writing the manuscript in the course of his or her training.

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12. Gray BA, and **Gollin SM**: Rapid cell culture procedure for tissue samples. *Am. J. Med. Genet.* 1987; 28:521-526.
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15. Edwards DR, Keppen LD, Ranells JD, and **Gollin SM**: Autism in association with fragile X syndrome in females: Implications for diagnosis and treatment in children. *NeuroToxicology* 1988; 9(3):359-365.
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17. Przepiorka D, **Gollin SM**, Sulecki M, and Zeigler Z: The use of in situ hybridization for detection of loss of the Y chromosome in normal males and in the evaluation of elderly males with pancytopenia. *Hematologic Pathol.* 1989; 3:177-183.
18. Heo DS, Snyderman C, **Gollin SM**, Pan S, Walker E, Deka R, Barnes EL, Johnson JT, Herberman RB, and Whiteside TL: New head and neck squamous cell carcinoma cell lines: Biology, cytogenetics, and sensitivity to immunologic effector cells. *Cancer Res.* 1989; 49:5167-5175.
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21. *Sherer ME, Shekhter-Levin S, Krause JR, Joyce RA, and **Gollin SM**: Atypical 7;19 translocation in acute myelomonocytic leukemia. *Cancer Genet. Cytogenet.* 1991; 57:169-173.
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23. Shimizu Y, Demetris AJ, **Gollin SM**, Storto PD, Bedford HM, Altarac S, Iwatsuki S, Herberman RB, and Whiteside TL: Establishment of two new human cholangiocarcinoma cell lines and their cytogenetics and responses to growth factors, hormones, and cytokines or immunological effector cells. *Intl. J. Cancer* 1992; 52:252-260.
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44. Dickman PS, Barmada M, **Gollin SM**, Blatt J: Malignancy following retinoblastoma: Secondary cancer or recurrence? *Human Pathol* 1997; 28:200-205.
45. Pollack IF, Hamilton RL, Finkelstein SD, Campbell JW, Martinez AJ, Sherwin RN, Bozik ME, **Gollin SM**: The relationship between TP53 mutations and overexpression of p53 and prognosis in malignant gliomas of childhood. *Cancer Res* 1997; 57:304-309.
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Provisional Patents

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