

CURRICULUM VITAE

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Mailman School of Public Health
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EDUCATION

Brooklyn College	B.S. Chemistry	1969
Univ. of Massachusetts	M.S. Organic Chemistry	1971
City Univ. of New York	Ph.D. Biochemistry	1976

EXPERIENCE

2018-present Vice Dean for Faculty Affairs
2012-2018 Vice Dean for Faculty Affairs and Research
1996-present Professor with tenure, Dept. Environmental Health Sciences, Mailman School of Public Health, Columbia University
2005-present Co-Leader, Cancer Epidemiology Program, Herbert Irving Comprehensive Cancer Center
2000-present Director, NIEHS Center for Environmental Health in Northern Manhattan, School of Public Health
2000-2001 Chair, Molecular Epidemiology Working Group of the American Association for Cancer Research
1992-present Director, Biomarkers Core Facility, Herbert Irving Cancer Center
1992-2005 Director, Carcinogenesis Program, Herbert Irving Cancer Center
1998-2000 Deputy Director, NIEHS Center for Environmental Health in Northern Manhattan, School of Public Health
1996-present Chair, Molecular Epidemiology Committee, Southwest Oncology Group
1990-1996 Associate Professor with tenure, School of Public Health, Columbia University
1983-1990 Assistant Professor, School of Public Health, Columbia University
1977-1982 Staff Associate, Institute of Cancer Research, Columbia University College of Physicians & Surgeons
1977-1982 Research Instructor, Dept. of Microbiology, New York Medical College
1972-1976 Teaching Assistant, Dept of Chemistry, Brooklyn College
1971-1972 Research Associate, Dept. of Pharmacology, Downstate Medical Center

PROFESSIONAL SOCIETY MEMBERSHIPS

Sigma Xi
American Chemical Society
Society of Toxicology
American Association of Cancer Research
Environmental Mutagenesis and Genomics Society
Harvey Society
Women in Cancer Research

RESEARCH INTERESTS

Molecular epidemiology and biological monitoring
Development of immunologic methods to monitor human exposure to chemical carcinogens utilizing monoclonal antibodies to carcinogens and carcinogen-DNA and protein adducts
Immunohistochemical techniques for adduct localization
Genetic susceptibility
Epigenetics in cancer susceptibility

EDITORIAL BOARDS

1999-2003 Associate Editor *Cancer Epidemiology Biomarkers & Prevention*
2003-2006 Senior Editor *Cancer Research*
2009-present Editorial Review Board *Environmental Health Perspectives*
2015-present Editorial Board *Journal of Clinical and Translational Hepatology*

HONORS

- 1994-98 Member of Metabolic Pathology Study Section
- 2001-2002 Chair, Molecular Epidemiology Group, American Association for Cancer Research
- 2006-2007 Avon Foundation-AACR Scholar Host for Avon Foundation-AACR International Scholar Awards in Breast Cancer Research
- 2014 Mailman School of Public Health Dean's Excellence in Mentoring Award

ADVISORY OR PEER REVIEW COMMITTEES

- 1990: American Cancer Society Ad Hoc grant review committee
- 1991: National Cancer Institute Ad Hoc Contracts Technical Review
NIEHS Superfund Grant Review Committee
EPA Grant Review
Netherlands Cancer Institute Grant Review
- 1992: National Institute on Aging Ad Hoc review committee
American Cancer Society grant review
- 1993: National Institute of Environmental Health Science Ad Hoc site review committee
NIH Ad Hoc member Toxicology study section
NIH Ad Hoc member Metabolic Pathology study section
- 1994-1998 Member NIH Metabolic Pathology Study Section
- 1996: NIH Ad Hoc member Environmental Health Sciences Review Committee
NIH Health Effects Institute AD Hoc Grant Review
- 1996-2001 External Advisory Committee, Mt. Sinai Medical Center NIEHS Superfund Research Program
- 1999: NIH Ad Hoc member Subcommittee E
- 2000-present NIH Ad Hoc reviewer
- 2000-2003 External Advisory Committee, American Health Foundation, Cancer Center
- 2002: External Advisory Committee, NYU Program Project
- 2002: External Review Committee, Division of Environmental and Occupational Health, School of Public Health, University of Minnesota
- 2003-present: External Advisor, NIEHS Center Harvard University
- 2005: Institute of Medicine Ad hoc Committee on the Disposition of the Air Force Health Study
- 2006-2008: NIEHS Ad Hoc Reviewer ONES grants; NIEHS Special Emphasis Panel
- 2007: NIH Office of Dietary Supplements Roundtable Discussion on Vitamin D Research Priorities
- 2010-present AACR/Love Army of Women Scientific Review Board

INVITED CONFERENCES AND COMMITTEES

- 1982: 2nd International Conference on Mutagenic and Carcinogenic N- substituted Aryl Compounds, Hot Springs, AR
Cold Spring Harbor Symposium on "Structures of DNA", Cold Spring, NY
- 1983: Environmental Mutagenesis Subcommittee Meeting on DNA Adducts as Dosimeters of Human Exposure, Environmental Mutagen Society, Washington, D.C.
- 1984: Panel Member, DOE-OHER Workshop on Occupational Health Research, Oak Ridge National Laboratories, Union Carbide Corp., Knoxville, TN
Environmental Mutagen Society Satellite Meeting on Methods and Applications of Molecular Epidemiology in Genetic Toxicology, Montreal, Canada
EPA-NIEHS Symposium on DNA Adducts: Dosimeters to Monitor Human Exposure to Environmental Mutagens and Carcinogens, Research Triangle Park, NC
- 1985: National Bureau of Standards: Mechanisms of DNA Damage and Repair, Implications for Carcinogenesis and Risk Assessment, Gaithersburg, MD
Presentation to the National Academy of Sciences Committee on Toxicology, Woods Hole, MA
"Carcinogenicity of Alkylating Cytostatic Drugs" German Cancer Research Center, Heidelberg, Germany
- 1986: Workshop on Carcinogenesis and Adducts in Animals and Humans, Bio- Research Inst, Boston, MA
Workshop on Measurement and Characterization of DNA Adducts, Dept of Energy, Rockville, MD
International Symposium on Biochemical and Cellular Indices of Human Toxicity in Occupational and Environmental Medicine Milan, Italy
NIEHS Workshop on DNA adducts, Banbury Center, Cold Spring Harbor, Cold Spring Harbor, NY
International School, Environmental Health, Italian Department of Environmental Protection, Trevignano Romano, Italy
- 1987: Third International Conference on Carcinogenic and Mutagenic N-Substituted Aryl Compounds, Detroit, MI
International Agency for Research on Cancer Conference on "Methods for Detecting DNA-Damaging Agents in Humans: Application in Cancer Epidemiology and Prevention", Helsinki, Finland
International Symposium on Genetic Toxicology, Calcutta, India

- 1988: Bioelectromagnetics Society Annual Meeting Tutorial Lecture: Molecular Mechanisms of Tumor Initiation and Promotion, Stamford, CT
Health Effects Advisory Committee, Electric Power Research Institute, San Francisco, CA
Sci-Tech Center at Liberty State Park Content Advisory Board for Environmental Science, Jersey City, NJ
- 1989: Panel on Effects of Extremely Low Frequency Electromagnetic Radiation National Research Council, Washington, DC
Fifth International Conference on Environmental Mutagens (ICEM), Cleveland, OH
Basic Mechanisms of Mutation, Fifth ICEM Satellite Meeting, Toronto, Canada
Genetic Toxicology of Complex Mixtures, Fifth ICEM Satellite Meeting, Washington, DC
Biomonitoring and Carcinogen Risk Assessment, Cambridge England
Psoralen Photobiology, Yale University, New Haven, CT
12th International Symposium on Polycyclic Aromatic Hydrocarbons, Gaithersburg, MD.
Symposium on DNA Damage and Repair, Brookhaven National Laboratories, Upton, NY.
3rd International Conference on Anticarcinogenesis and Radiation Protection, Dubrovnik, Yugoslavia.
Immunoassays for Monitoring Human Exposure to Toxic Chemicals in Food and The Environment, PACIFICHEM '89, Honolulu, HA
- 1990: Fourth International Symposium on Biological Reactive Intermediates Tucson, AZ
Frontiers of Environmental Health: Biotechnology and Molecular Biology Univ Connecticut Center for Environmental Health, Storrs, CT
- 1991: Program Committee, American Association of Cancer Research
Federation American Societies for Experimental Biology
Symposium on Human Biomonitoring, Atlanta, GA
National Research Council Committee on an assessment of the possible health effects of Ground Wave Emergency Network (GWEN)
University of North Carolina Workshop on Current Perspectives on the Measurement of Hemoglobin Adducts in Humans, Chapel Hill, NC
Symposium on Health Risk Assessment and Surveillance in the Industrial Setting, Taipei, Taiwan, Republic of China
Hazardous Waste Health Risks, SCOMSEC, Cairo, Egypt.
Environmental Carcinogenesis and its Prevention: The Head and Neck Cancer Model, Hershey, PA
- 1992: General Motors Advances in Cancer Research, Boston, MA
European Optical Society, Berlin, Germany
- 1993: Environmental Mutagen Society, Norfolk, VA
Society of Toxicology, Mid-Atlantic Chapter Fall Symposium on The Use of Biological Markers in Human Exposure Assessment, New Brunswick, NJ
- 1995: National Toxicology Program, Washington DC
Ad Hoc Working group of the National Toxicology Program Board of Scientific Counselors
- 1996: Institute of Occupational Health, Catholic University, Rome Italy
Program Committee American Association for Cancer Research
International Society for Preventive Oncology 3rd International Symposium Impact of cancer Biotechnology Diagnostic and Prognostic Indicators
- 1997: Chemical Carcinogenesis and Biomonitoring Short Course, Center for Research in Oncology, Catholic University, Rome, Italy
Biomarkers-the Genome and the Individual, Charleston, SC
Ninth Annual Conference of the International Society for Environmental Epidemiology Taipei, Taiwan
The Diagnosis and Treatment of Hepatic Neoplasms, NYU, NY
- 1998: Hot Topics in Hepatology & Hepatobiliary Malignancies, Orlando Florida
- 1999: Society of Toxicology, Molecular Epidemiology Symposium, New Orleans, LA
First International Chicago Symposium on Malignancies of the Head & Neck Chicago, IL
Women in Science Symposium Rutgers University, New Brunswick, NJ
International Society of Environmental Epidemiology Symposium Biomarkers and molecular epidemiology in risk assessment Athens, Greece
- 2000: Biologic Markers of Carcinogen Exposure, Japanese Society of Cancer Molecular Epidemiology, Tokyo, Japan
Recent Advances in Molecular Markers for Carcinogenesis and Chemoprevention, Korean Society of Toxicology/ Environmental Mutagens and Carcinogens Seoul, Korea
Functional genomics, proteomics and high throughput technologies: tools for the 21st century Wayne State University, Detroit MI
Chemical Perspectives on Human Cancer Pacificchem International Congress Honolulu Hawaii
Continuing Education Course on Molecular Epidemiology, Society of Toxicology, Philadelphia, PA
- 2001: Biomarkers of Chemical Exposure Course, Catholic University, Rome, Italy
HEI Air Toxics Research Planning Workshop, Health Effects Institute, Washington, DC
Genetic Susceptibility to Prostate Cancer Workshop, National Cancer Institute, Columbia MD
Chemoprevention & Molecular Epidemiology, UCLA Jonsson Comprehensive Cancer Center, Los Angeles CA

- Carcinogen-DNA and protein adducts as markers of exposure and risk” Mid-Atlantic Society of Toxicology Fall Scientific Meeting, Iselin, New Jersey
 IASLC 3rd International Conference on Prevention and Early Detection of Lung Cancer Reykyavik Iceland
 IARC Workshop on Mechanistic Considerations in the Design and Interpretation of Molecular Epidemiologic Studies of Cancer, Lyon France
 International Symposium on Molecular Basis for Cancer Chemo- and Immuno-Prevention, Shanghai, China
- 2002: NCI conference Risk Identification and Reduction Strategies involving Modulation of Glutathione S-transferase (GST) Isoforms, Bethesda MD
 IARC Molecular Epidemiology Course, New York
- 2003: Molecular epidemiology Working Group-American Association for Cancer Research, Waikoloa, Hawaii
 Gordon Research Conference Cancer Genetics and Epigenetics, Ventura, CA
 NIOSH Applying Biomarkers to Occupational Health Practice, Santa Fe, NM
 10th World Conference on Lung Cancer, Vancouver Canada
 AACR Special Conference SNPs, Haplotypes and Cancer: Applications in Molecular Epidemiology, Key Biscayne FL
 NCI Conference Validation of a Causal Relationship: Criteria to Establish Etiology, Washington, DC
- 2004: International Congress of Toxicology Satellite Meeting on Molecular Epidemiology-Linking Toxicology to Epidemiology-Biomarkers and New Technologies Porvoo Finland
- 2005: American Thoracic Society Annual Meeting Educational Session, San Diego, CA
 National Academy of Sciences Air Forces Health Study, Washington DC
 Society of Toxicology Annual Meeting Symposium, New Orleans, LA
 American Association for Cancer Research Annual Meeting Symposium, Anaheim CA
 NCI National Science Writers’ Seminar on Racial Disparities, New York, NY
- 2006: European Environmental Mutagen Society, Prague, Czech Republic
 Course in Genome Damage, Medellin, Colombia
 AACR Conference “Frontiers in Cancer Prevention Research” Boston, MA
- 2007: Theoretical Course International Center for Genetic Engineering and Biotechnology: Clinical Aspects of Liver Cancer, Medellin, Colombia
 Biobehavioral Mechanisms in Breast Cancer, City University of New York, NY, NY
 Office of Dietary Supplement, NIH Vitamin D Conference, Washington DC
- 2008: Breast Cancer: Current Controversies and New Horizons, Harvard, Boston, MA
 Canary Foundation Symposium, Stanford, CA
- 2009: AVON Breast Cancer Prevention: Research and Strategies for the 21st Century Miami FL
 Keynote speaker, Annual meeting United Kingdom Environmental Mutagenesis Society, Leeds, UK
 International Association for the Study of Lung Cancer San Francisco, CA
 Young Survival Coalition/Women at Risk “Green is the New Pink: Breast Cancer and the Environment” New York, NY
- 2010: Forum Panelist American Association for Cancer Research Annual Meeting, Washington DC
 The Second Niagara Lung Cancer Symposium, Niagara on the Lake, Ontario
- 2011: Epigenetics, Environment and Cancer Univ of Utah, Salt Lake City, UT
- 2012: Herbert Irving Comprehensive Cancer Center Annual Symposium: Epigenetics and Cancer, New York, NY
- 2013: Breast Cancer Management 2013 CME, Columbia University
 Regional Interest Session: Assessment of Environmental, dietary and Biological Risk Factors Impacting Liver Cancer Incidence in Texas, Society of Toxicology, San Antonio TX
 International Congress of Toxicology, Seoul, Korea
 Center in Molecular Toxicology 25th Anniversary Symposium on Aflatoxin, Vanderbilt University, Nashville TN
- 2016: World Science Beijing, China
- 2017: Howell O. Archard Jr Symposium in Oral and Craniofacial Pathology Columbia University, New York, NY
 International Conference on the Impact of Environment on Women’s Health, Lucknow, India
- 2020: Keynote address City University of New York Research Scholars Program (CRSP), New York, NY

SEMINARS

- 1987: Univ Maryland School of Medicine, Baltimore, MD
 Dept Pathology, Roosevelt Hospital, NY, NY
- 1988: Temple University, Philadelphia, PA
 American Health Foundation, Valhalla, NY
- 1989: UMDNJ, Piscataway, NJ
 Uniformed Services University of the Health Sciences, Bethesda, MD
 St Jude Children's Research Hospital, Memphis, TN
 Dept of Pharmacology, SUNY Stony Brook, NY
- 1990: MITRE Corporation, McLean VA
 Univ Connecticut, Storrs, CT

- 1991: Brooklyn College, Brooklyn, NY
 Rutgers University, Piscataway, NJ
 New York University, Sterling Forest, NY
 American Health Foundation, Valhalla, NY
 Fox Chase Cancer Center, Philadelphia, PA
- 1993: Yale University, Dept of Pathology, New Haven, CT
 Mt. Sinai Medical Center, NY, NY
- 1994: New York University, Sterling Forest, NY
- 1998: Vanderbilt University
 Wyeth-Ayerst
 SWOG Nurse Oncologist Committee
 Wright State University
- 1999: Estee Lauder, Long Island, NY
 National Center for Toxicologic Research, Little Rock AK
- 2001: UCLA, Los Angeles, CA
- 2002: UMDNJ, Newark, NJ
 Nassau County Bar Association, Mineola, LI
 University of Pennsylvania, Hershey PA
- 2003: BCERF Regional Cancer and Environment Forum, Purchase, NY
 NYU School of Dentistry, New York, NY
- 2004: Mt Sinai Medical Center, New York NY
 University of New Mexico, Albuquerque, NM
- 2005: New York Medical College, Valhalla, NY
 Roswell Park Cancer Institute, Buffalo, NY
 University of North Carolina, Chapel Hill, NC
 New York University, New York, NY
- 2007: Wayne State University, Detroit, MI
- 2008: University of Texas Medical Branch, Galveston, TX
- 2012: University of Pennsylvania, Philadelphia, PA
- 2015: University of Colorado, Arora, CO
- 2018: John Jay College of Criminal Justice, CUNY, New York NY

PUBLICATIONS

- Zieger, H.E., Schaeffer, D., and Padronaggio, R. Stereochemistry and conformation of 9,10-diisopropyl 9,10-dihydroanthracenes, *Tet. Let.* 5027-5030, 1969.
- Margolis, R.U., Margolis, R.K., Santella, R.M., and Atherton, D. The hyaluronidase of brain, *J. Neurochem.* 19, 2325-2332, 1972.
- Santella, R.M., and Li, H.J. Studies on poly(L-lysine₅₀-L-tyrosine₅₀)-DNA interaction, *Biopol.* 3, 909-1926, 1974.
- Ling, C.F., Santella, R.M., Shen, Y., and McEwen, W.E. Condensation of 2-benzoyl-1,2-dihydroisoquinaldonitrile hydro-fluoroborate with ethyl cinnamate and related compounds, *J. Org. Chem.* 1974.
- Santella, R.M., and Li, H.J. Studies on interaction between poly(L-lysine₅₈, L-phenylalanine₄₂) and deoxyribonucleic acids, *Biochem.* 14, 3604-11, 1975.
- Li, H.J., Herlands, L., Santella, R.M., and Epstein, P. Studies on the interaction of poly(L-lysine) and DNA of varied G+C contents, *Biopol.* 4, 2401-2415, 1975.
- Santella, R.M., and Li, H.J. Interaction between poly(L-lysine₄₈-L-histidine₅₂) and DNA, *Biopol.* 16, 1879-1882, 1977.
- Engelhardt, D.L., Santella, R.M., Rosenkranz, H.S., and Speck, W.T. The effect of light-treated human plasma on cell growth, *Photobiol. Photochem.* 26, 53-55, 1977.
- Santella, R.M., Rosenkranz, H.S., Lubit, B.W., Erlanger, B.F., and Speck, W.T. Peroxidase technique for the detection of photochemical lesions in intracellular deoxyribonucleic acid, *Ped. Res.* 11, 939-941, 1977.
- Speck, W.T., Santella, R.M., and Rosenkranz, H.S. Evaluation of the prophage B induction (inductest) for the selection of potential carcinogens, *Mut. Res.* 54, 101-104, 1978.

11. Santella, R.M., Rosenkranz, H.S., and Speck, W.T. Intracellular deoxyribonucleic acid modifying activity of intermittent phototherapy, *J. Pediat.* 93, 106-109, 1978.
12. Speck, W.T., Santella, R.M., Brem, S., and Rosenkranz, H.S. Alterations of human cellular DNA by neutral red in the presence of visible light, *Mutation Res.* 66, 95-98, 1979.
13. Santella, R.M., Fuchs, R.P.P., and Grunberger, D. Mutagenicity of 7-iodo and 7-fluoro derivatives of N-hydroxy and N-acetoxy-N-2-acetylaminofluorene in the Salmonella typhimurium assay, *Mutation Res.* 67, 85-87, 1979.
14. Santella, R.M., Grunberger, D., and Weinstein, I.B. DNA-benzo[a]-pyrene adducts formed in a Salmonella typhimurium mutagenesis assay system, *Mut. Res.* 61, 181-189, 1979.
15. Poirier, M.C., Santella, R.M., Weinstein, I.B., Grunberger, D., and Yuspa, S.H. Quantitation of benzo[a]pyrene-deoxyguanosine adducts by radioimmunoassay *Cancer Res.* 40, 412-416, 1980.
16. Santella, R.M., Kriek, E., and Grunberger, D. Circular dichroism and proton magnetic resonance studies of dApdG modified with N-2-aminofluorene and N-2-acetylaminofluorene, *Carcinogenesis* 1, 897-902, 1980.
17. Jeffrey, A.M., Kinoshita, T., Santella, R.M., Grunberger, D., Katz, L., and Weinstein, I.B. The chemistry of polycyclic aromatic hydrocarbon-DNA adducts, In: *Carcinogenesis: Fundamental Mechanisms and Environmental Effects*, eds. Ts'o, P.O.P., and Gelboin, H., Reidel Publ. Co., Amsterdam, 1980, pp. 565-579.
18. Kinoshita, T., Santella, R., Pulkrabek, P., and Jeffrey, A.M. Benzene oxide genetic toxicity, *Mutation Res.* 91, 99-102, 1981.
19. Santella, R.M., Grunberger, D., Weinstein, I.B., and Rich, A. Induction of the Z-conformation in poly(dG-dC).poly(dG-dC) by binding of N-2-acetyl-aminofluorene to guanine residues, *Proc. Natl. Acad. Sci. USA* 78, 1451-1455, 1981.
20. Grunberger, D., Santella, R.M., and Weinstein, I.B. Carcinogen-DNA adducts in mutagenesis assays, *Science* 213, 1411-1412, 1981.
21. Grunberger, D., and Santella, R.M. Alternative conformations of DNA modified by N-2-acetylaminofluorene, *J. Supramol. Struc. & Cellular Biochem.* 17, 231-244, 1981.
22. Santella, R.M., Grunberger, D., Broyde, S., and Hingerty, B.E. Z-DNA conformation of N-2-acetylaminofluorene modified poly(dG-dC).poly-(dG-dC) determined by reactivity with anti cytidine antibodies and minimized potential energy calculations, *Nucleic Acid Res.* 9, 5459-5467, 1981.
23. McEwen, W.E., Hernandez, M.A., Ling, C.F., Marmugi, E., Padronaggio (Santella), R.M., ZepplIII, C.M., and Lubinkowski, J.J. Substitution effects in the cycloaddition reactions of Reissert hydrofluorborate salts with alkenes. *J. Org. Chem.* 46, 1656-1662, 1981.
24. Fraenkel-Conrat, H., Singer, B., Takanami, Y., Santella, R.M., and Grunberger, D. Reconstitution of rods from tobacco mosaic virus protein and RNA modified with bulky carcinogens, *Proc. Natl. Acad. Sci. USA* 79, 2541-2543, 1982.
25. Santella, R., Kinoshita, T., and Jeffrey, A.M. Mutagenicity of some methylated benzo[a]pyrene derivatives, *Mutation Res.* 104, 209-213, 1982.
26. Ushay, H.M., Santella, R.M., Caradonna, J.P., Grunberger, D., and Lippard, S.J. Binding of [(dien)PtC] to poly(dG-dC).poly-(dG-dC) facilitates the B-Z conformational transition, *Nucleic Acid Res.* 10, 3573-358, 1982.
27. Santella, R.M., Grunberger, D., Nordheim, A., and Rich A. N-2-acetyl-aminofluorene modification of poly(dG-m5dC).poly(dG- m5dC) induces the Z-DNA conformation, *Biochem. Biophys Res. Comm.* 106, 1226-1232, 1982.
28. Poirier, M.C., Lippard, S., Zwelling, L.A., Ushay, M., Kerrigan, D., Thill, C.C., Santella, R.M., Grunberger, D., and Yuspa, S.H. Antibodies elicited against cis diammine-dichloroplatinum(II)-modified DNA are specific for cis-diamminedichloroplatinum(II)-DNA adducts formed in vivo and in vitro, *Proc. Natl. Acad. Sci. USA* 79, 6443-6447, 1982.
29. Kinoshita, T., Konieczny, M., Santella, R.M., and Jeffrey, A.M. Metabolism and covalent binding to DNA of 7-methylbenzo[a]pyrene, *Cancer Res.* 42, 4032-4038, 1982.
30. Santella, R.M., Grunberger, D., Weinstein, I.B., Carcinogens can induce alternate conformations in nucleic acid structure, *Cold Spring Harbor Symposium on Quantitative Biol.*, Vol. XLVII, p 339-346. 1983.

31. Grunberger, D. and Santella, R.M. Conformational changes in DNA induced by chemical carcinogens, In: Genes and Proteins in Oncogenesis, Columbia Univ. Symposium, Academic Press, NY, p. 13-40, 1983.
32. Poupko, J.M., Radomski, T., Santella, R.M., and Radomski, J.L. Organ, species and compound specificity in the metabolic activation of primary aromatic amines, *J. Natl. Cancer Inst.* 70, 1077-1080, 1983.
33. Jones, C.A., Santella, R.M., Huberman, E., Selkirk, J.K., and Grunberger, D. Comparison of the metabolism DNA-adduct formation and mutagenicity of benzo[a]pyrene in rat liver cells and fibroblasts, *Carcinogenesis*, 4, 1351-1357, 1983.
34. Santella, R.M., and Grunberger, D. Induction of the base displacement or Z-conformation in DNA by N-2-acetylaminofluorene modification, *J. Natl. Cancer Inst. Environ. Health Persp.* 49, 107-115, 1983.
35. Santella, R.M., Lin, C.D., Cleveland, W.L., and Weinstein, I.B. Monoclonal antibodies to DNA modified by a benzo[a]pyrene diol epoxide, *Carcinogenesis*, 5, 373-377, 1984.
36. Perera, F.P., Santella, R., Poirier, M.C. Potential methods to monitor human populations exposed to carcinogens: Carcinogen-DNA binding as an example, In: Risk Quantitation and Regulatory Policy, Hoel, D. Merrill, R., and Perera, F. Eds., Banbury Report no. 19, Cold Spring Harbor Lab., Cold Spring Harbor, NY, 1984.
37. Hanau, L., Santella, R.M., Grunberger, D.G., and Erlanger, B.F. An immunochemical examination of acetylaminofluorene (AAF)-modified poly(dG-dC).poly(dG-dC) in the Z conformation, *J. Biol. Chem.* 259, 173-178, 1984.
38. Santella, R.M., Hsieh, L.L., Lin, C.D., Viet, S., and Weinstein, I.B. Quantitation of exposure to benzo[a]pyrene with monoclonal antibodies, *Environ. Health Perspectives* 62, 95-99, 1985.
39. Das, M., Bickers, D.R., Santella, R.M., and Mukhtar, H. Altered patterns of cutaneous xenobiotic metabolism in UVB-induced squamous cell carcinoma in SKH-1 hairless mice, *J. Invest. Derm.* 84, 532-536, 1985.
40. Santella, R.M., Dharmaraja, N., Gasparro, F.P., Edelson, R.L. Monoclonal antibodies to DNA modified by 8-methoxypsoralen and ultraviolet A light, *Nucleic Acids Res.* 13, 2533-2544, 1985.
41. Hsieh, L.L., Jeffrey, A.M., and Santella, R.M. Monoclonal antibodies to 1-aminopyrene-DNA, *Carcinogenesis*, 6, 1289-1293, 1985.
42. Grunberger, D., Santella, R.M., Hanau, L., Erlanger, B.F., Stabilization of Z-DNA conformation by chemical carcinogens, In: The Role of Chemicals and Radiation in the Etiology of Cancer, Raven Press, New York, 465-475, 1985.
43. Santella, R.M., Hsieh, L.L., and Perera, F. Immunologic quantitation of carcinogen-DNA adducts, In: Mechanisms of DNA Damage & Repair, M.G. Simic, L. Grossman and A.C. Puton (eds.), Plenum Press, New York, p. 509-518, 1986.
44. Santella, R.M., Lin, C.D., and Dharmaraja, N. Monoclonal antibodies to a benzo[a]pyrene diol epoxide modified protein, *Carcinogenesis*, 7, 441-444, 1986.
45. Santella, R.M., and Yang, X.Y. Quantitation of carcinogen-DNA adducts with monoclonal antibodies, In: Occupational and Environmental Chemical Hazards, Foa, V., Emmett, E.A., Maroni, M., Colombi, A., Eds., Ellis Harwood Limited, West Sussex, England, 1986.
46. Hsieh, L.L., Wong, D., Heisig, V., Santella, R.M., Mauderly, J.J., Mitchell, C.E., Wolff, R.K., Jeffrey, A.M. Analysis of genotoxic components in diesel engine emissions, In: Carcinogenic and Mutagenic Effects of Diesel Engine Exhaust, Ishinishi, N., Koizumi, A., McClellan, R.O., and Strober, W., Eds., Elsevier Sciences Publishers, 1986.
47. Perera, F., Santella, R. and Poirier, M. Biomonitoring of workers exposed to carcinogens: immunoassays to benzo[a]pyrene adducts as a prototype, *J. Occup. Med.* 28, 1117-1123, 1986.
48. Sutherland, J.C., Bohai, L., Mugavero, J., Trunk, J., Tomasz, M., Santella, R.M., Marky, L., and Breslauer, K.J. Vacuum ultraviolet circular dichroism of double stranded nucleic acids, *Photochem. Photobio.* 44, 295, 1986.
49. Mukhtar, H., Asokan, P., Das, M., Santella, R.M. and Bickers, D.R. Benzo[a]pyrene diol epoxide-I-DNA adduct formation in the epidermis and lung of senear mice following topical application of crude coal tar, *Cancer Letters*, 33, 287-94, 1986.

50. Santella, R.M., Gasparro, F.P. and Edelson, R.L. Quantification of 8-methoxypsoralen-DNA adducts with specific antibodies, In: *Carcinogenicity of Alkylating Cytostatic Drugs*, Lyon, France, IARC, Schmahl, D. and Kaldor, J.M. Eds., 127-139, 1986.
51. Everson, R.B., Randerath, E., Santella, R.M., Cefalo, R.C., Avitts, T.A., and Randerath, K. Detection of smoking related covalent DNA adducts in human placenta, *Science*, 231, 54-57, 1986.
52. Santella, R.M., Gasparro, F. and Hsieh, L.L. Quantitation of carcinogen-DNA adducts with monoclonal antibodies, *Progress in Experimental Tumor Research: Carcinogenesis and Adducts*, 31, 63-75, 1987.
53. Yang, X.Y., DeLeo, V., and Santella, R.M. Immunological detection and visualization of 8-methoxypsoralen-DNA photoadducts, *Cancer Research*, 47, 2451-2455, 1987.
54. Wallin, H., Jeffrey, A.M., and Santella, R.M. Investigation of benzo[a]pyrene-globin adducts, *Cancer Letters*, 35, 139-146, 1987.
55. Perera, F.P., Santella, R.M., Brenner, D., Poirier, M.C., Munshi, A.A., Fischman, H.K., and Van Ryzin, J. DNA adducts, protein adducts and SCEs in cigarette smokers and nonsmokers, *J. Natl. Can. Inst.*, 79, 449-456, 1987.
56. Geacintov, N.E., Zinger, D., Ibanez, V., Santella, R., Grunberger, D., Harvey, R. G. Properties of covalent benzo(a) pyrene diol epoxide-DNA adducts investigated by fluorescence techniques, *Carcinogenesis*, 8, 925-935, 1987.
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