

Regina Maria Santella, PhD
 Department of Environmental Health Sciences
 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

MS Thesis: The condensation reaction of 2-benzoyl-1,2-dihydroisoquinaldonitrile hydrofluoroborate with substituted ethyl cinnamates

Thesis Advisor: Dr. W.E. McEwen

PhD Thesis: Interaction of model proteins and DNA

Thesis Advisor: Dr. H.J. Li

EXPERIENCE

2025	Professor Emerita
2024-2025	Professor Emerita/Special Research Scientist
2023-2024	Interim Chair
2018-2021	Vice Dean for Faculty Affairs
2012-2018	Vice Dean for Faculty Affairs and Research
2005-2023	Co-Leader, Cancer Population Science Program, Herbert Irving Comprehensive Cancer Center
2000-2018	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
1996-present	Professor with tenure, School of Public health
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
1996-2006	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
 American Association of Cancer Research
 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 <i>Cancer Research</i>
2009-2015	Editorial Review Board <i>Environmental Health Perspectives</i>
2015-2020	Editorial Board <i>Journal of Clinical and Translational Hepatology</i>

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

DEPARTMENTAL AND UNIVERSITY COMMITTEES

Research Committee, 1985-86
 Admissions Committee, 1989-1995, 200-present
 Biostatistics Search Committee for new chair, 1991
 Chair SPH Reaccreditation Resources Subcommittee, 1993-94
 Nutrition/Public Health Joint Degree Advisory Committee 1994-1997
 Institute of Nutrition Doctoral Subcommittee 1994-2005
 SPH Equity in Hiring and Advancement Committee 1994-1998
 SPH Steering Committee 1996-1997
 Sociomedical Sciences Search Committee for new chair, 2000-2001
 Institute of Nutrition evaluation of PhD program 2001
 Task Force on The Future of Public Health Genetics at the Mailman School of Public Health 2001-2002
 AdHoc Committee on grant applications 2002-2003
 Committee on Appointments and Promotions 2004-2008
 Liason committee to the search committee for dean SPH 2007
 Search committee Michael and Stella Chernow Professorship 2007
 Chair- Committee on Appointments and Promotions 2008-2012

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
 2000-2024 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
 2003-2010: 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
 2008: PO1 grant review Groopman
 2010-2017 AACR/Love Army of Women Scientific Review Board

- 2010: Ad hoc ZRG1 PSE-J Feb and ZES1 JAB-J (C7)
 2010: Ad hoc Chemo-Dietary Prevention Study Section

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, Waikaloa, 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
 2019: City University of New York Graduate Program, New York, NY
 2020: Rutgers Exposure Science Student Association (RESSA), New Brunswick, NJ

2021: Queensborough Community College Environmental Sustainability Club, New York, NY
2023: Biomarkers in Environmental Health Sciences, GlobeMed Hilltop Conference, Barnard College

PUBLICATIONS

1. Zieger, H.E., Schaeffer, D., and Padronaggio, R. Stereochemistry and conformation of 9,10-diisopropyl 9,10-dihydroanthracenes, *Tet. Let.* 5027-5030, 1969.
2. Margolis, R.U., Margolis, R.K., Santella, R.M., and Atherton, D. The hyaluronidase of brain, *J. Neurochem.* 19, 2325-2332, 1972.
3. Santella, R.M., and Li, H.J. Studies on poly(L-lysine₅₀-L-tyrosine₅₀)-DNA interaction, *Biopol.* 3, 909-1926, 1974.
4. 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.* 39 1888-1991, 1974.
5. Santella, R.M., and Li, H.J. Studies on interaction between poly(L-lysine₅₈, L-phenylalanine₄₂) and deoxyribonucleic acids, *Biochem.* 14, 3604-11, 1975.
6. 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.
7. Santella, R.M., and Li, H.J. Interaction between poly(L-lysine₄₈-L-histidine₅₂) and DNA, *Biopol.* 16, 1879-1882, 1977.
8. 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.
9. 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.
10. 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-methyl-benzo[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 sencar 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.
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