

Andrew G. Rundle
Curriculum Vitae





Curriculum Vitae
Andrew G. Rundle

Date of Preparation

Feb 2016

Personal Data:

Andrew G. Rundle
U.S. Citizen

Email: Agr3@cumc.columbia.edu 
Research team website: [HTTP://BEH.columbia.edu](http://BEH.columbia.edu) 
Google Scholar Profile: [HTTP://goo.gl/GHbIr](http://goo.gl/GHbIr) 
ResearcherID [HTTP://http://www.researcherid.com/rid/A-5282-2009](http://http://www.researcherid.com/rid/A-5282-2009) 

Academic Training:

1987-1991 State University of New York at Binghamton, Binghamton, NY.
B.S. in Biology

1992-1994 Columbia University School of Public Health, New York, NY.
M.P.H in Environmental Sciences

1998-1999 Columbia Fu Foundation School of Engineering, New York, NY.
Computer Graphics, Visualization and Animation – no degree

1996-2000 Mailman School of Public Health, New York, NY.
Dr.P.H. in Environmental Health Sciences (additionally completed
Department of Epidemiology Methods Qualifying Exam).
Thesis: A Molecular Epidemiologic Case-Control Study of Breast Cancer.
Under supervision of Dr. Frederica Perera

Academic appointments:

1994-1996 Columbia University School of Public Health, Division of Environmental
Health Sciences, New York, NY; Staff Associate.

1999 Mailman School of Public Health, Division of Environmental Health
Sciences, New York, NY; Staff Associate.

2000 Mailman School of Public Health, Division of Environmental Health
Sciences, New York, NY; Associate Research Scientist.

2000-2008 Mailman School of Public Health, Department of Epidemiology, New
York, NY; Assistant Professor of Epidemiology.

2003-Present Robert Wood Johnson Health and Society Scholars Program at Columbia
University, New York, NY, affiliated faculty

2006-Present Institute for Social and Economic Research and Policy, Columbia
University, New York, NY, affiliated faculty.

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- 2008-Present Mailman School of Public Health, Department of Epidemiology, New York, NY; Associate Professor of Epidemiology with Tenure.
- 2015-present Mailman School of Public Health, Department of Epidemiology, New York, NY; Cluster Leader, Social Epidemiology Cluster.

Other appointments:

- 2002-Present Herbert Irving Comprehensive Cancer Center, Columbia University, New York, NY, Member
- 2004-Present Robert Wood Johnson Health and Society, Working Group on Physical Activity and Obesity, Columbia University, New York, NY, PI.
- 2009-Present Steering Committee of the Columbia Population Research Center.
- 2009-Present Executive Committee of the Columbia Children's Center for Environmental Health.
- 2013-Present Co-Director, Mailman School of Public Health Obesity Prevention Initiative.
- 2014-Present Co-Director, Columbia Population Research Center, Urban Health Signature Research Area
- 2014-Present Co-Chair, Columbia Population Research Center, Computing, Data and Information Core
- 2015-Present Executive Committee of the Department of Pediatrics, T32 Training grant in pediatric endocrinology, diabetes and metabolism. NIDDK T32 DK06552211

Honors:

- 1990 Phi Beta Kappa
- 1990-1991 Research Grant from the SUNY Research Foundation, State University of New York at Binghamton
- 1992-1994 Graduate Research Assistantship, Columbia School of Public Health, Division of Environmental Sciences
- 1994 Environmental Sciences Award for Academic Excellence, Columbia School of Public Health
- 1996-1999 National Cancer Institute Pre-Doctoral Fellowship, Columbia School of Public Health
- 1998 New Investigator Workshop Award, American Society for Preventive Oncology Annual Meeting
- 2000 Environmental Health Sciences Award for Academic Excellence, Mailman School of Public Health

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2003	Nominated for Mailman School of Public Health Teaching Excellence Award
2003	Nominated for Lamont-Doherty Earth Observatory Excellence in Teaching Award
2004-2010	National Center on Minority Health and Health Disparities, Health Disparities Scholar.
2005	Delivered the inaugural Lucille N. Austin Lecture. Columbia University School of Social Work.
2009	Nominated for the Mailman School of Public Health Faculty Mentoring Award.
2012	TEDMED2012 – Robert Wood Johnson Foundation Great Challenges Advocate for “Promoting Active Lifestyles”.
2014	American Institute of Architects – Design and Health Consortium inaugural member.
2015	Dean’s Award for Excellence in Leadership

Fellowship and grant support:

Current support

2012-2016	Co-Investigator, NIEHS 1R01ES021482-01. Prenatal pyrethroid exposure and child mental, motor and behavioral development. \$1,712,257 total costs.
2012-2016	Co-Investigator, NHLB R01HL111195-01(PI: Ken Cheung). Physical activity patterns via new dimension-informative cluster models. \$1,442,016 total costs.
2013-2016	Co-Investigator. Robert Wood Johnson Foundation (PI: Sally Findley) Profiles of participants in WIC and other healthy living programs for preschoolers in New York. \$399,944 total costs
2014-2016	Co-Investigator. Research Initiatives in Science & Engineering (RISE) from the Columbia University Office of the Executive Vice President for Research. (PI: Frank Lowy). Development of a New York City Antibiotic Resistome Map: Identifying Neighborhood & Individual Level Factors that Contribute to the Prevalence of Antimicrobial Resistance in the Community. \$80,000 per year total costs.
2014-2019	Co-Investigator, NIEHS R01ES011126-11 (PI: Benjamin Rybicki). A nested case-control study of prostate cancer carcinogenesis.
2015-2020	Co-Investigator, NICHD R01HD082147-01A1 (PI: Cassidy-Bushrow) Delivery mode, environment and the gut microbiome: influence on childhood body size.

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- 2015-2019 Principal Investigator, Project 2: The Impact of PAH Exposure on Childhood Growth Trajectories and Visceral Adipose Tissue Mass in Adolescence Linkages to Disrupted Self-Regulatory Processes. An R01 Project within the NIEHS/EPA P50ES009600-16 Columbia Center for Children's Environmental Health (Center PI: Frederica Perera). \$4,000,000 total direct costs.
- 2015-2017 Co-Investigator, NIBIB 1R21EB01891701A1, (PI: Arthur Goldsmith) Generalized, multilevel functional response models applied to accelerometer data.
- 2015-2020 Co-Investigator, NCI 1UMCA182934-01A1, (PI: Anne Zeleniuch-Jacquotte) The NYU Women's Health Study.
- 2015-2020 Co-Investigator, NIDDK T32 DK06552211, (PI: Sharon Oberfield) Training grant in pediatric endocrinology, diabetes and metabolism.

Pending Support

- 2016-2020 Principal Investigator, NIEHS 1R01ES027344-01, Development of Emotional Self-Regulation and Physical Activity in Teen Years

Past Support

- 2001-2001 Principal Investigator, Herbert Irving Comprehensive Cancer Center. The Relationship Between Physical Activity, Plasma Glutathione Peroxidase Levels and Oxidative Damage Among Smokers - \$20,000 total direct costs.
- 2001-2004 Principal Investigator, New York City Council Speaker's Fund for Public Health Research. Sedentary Lifestyle as a Risk Factor for Lung Cancer on Staten Island - \$277,779 total direct costs.
- 2002-2002 Principal Investigator, Herbert Irving Comprehensive Cancer Center. Physical Activity Levels as a Predictor of Mammographic Density - \$20,000 total direct costs.
- 2002-2003 Principal Investigator, Women at Risk. Physical Activity Levels as a Predictor of Blood Glutathione Levels among Women at High Risk of Breast Cancer - \$30,000 total direct costs.
- 2002-2005 Co-Investigator (PI: Dr. Ben Rybicki, Henry Ford Cancer Center, PI of Columbia Sub-contract: Deliang Tang) NIEHS grant # R01 ES011126-02S1. Determinants of PAH-DNA Adducts in Prostate Cancer - \$222,648 total direct costs.
- 2002-2006 Co-Investigator (PI: Judith Jacobson) NHLBI grant # 1R01HL068236. Endotoxin, Obesity, and Asthma in NYC Head Start - \$3,039,677 total direct costs.
- 2002-2007 Principal Investigator, NCI grant # 1-K07-CA92348-01A1. The Epidemiology of Physical Activity and Lung Cancer - \$623,550 total direct costs.

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- 2003-2008 Principal Investigator U54 Research Project, NCI U54 CA101598-01. Assessment, Development and Validation of a Physical Activity Questionnaire in Three Ethnic Groups - \$810,000 total direct costs.
- 2005-2010 Principal Investigator, NIEHS grant # 5R01ES014229. Obesity, Physical Activity and Built Space in New York City. - \$1,060,105 total direct costs
- 2006-2008 Principal Investigator, Robert Wood Johnson Active Living Research. Observational Validation of Urban Design Measures for New York City. - \$50,000 total costs.
- 2007-2011 Co-Investigator, NIEHS grant # R01 ES014400 (PI: Matt Perzanowski) Risk Factors Accounting for Neighborhood Differences in Asthma Prevalence. \$1,997,287 total direct costs
- 2009-2010 Principal Investigator, NIEHS grant # R01ES014229-04S1. Partnerships for Environmental Public Health Administrative Supplement.
- 2009-2011 Principal Investigator, Robert Wood Johnson Active Living Research Round 8 Grant. Built Environment and Childhood Fitness and Overweight in New York City - \$248,958 total direct costs.
- 2009-2011 Principal Investigator, US Forest Service grant # 10-DG-11420004-010. The Urban Forest, Childhood Asthma and Community Air Quality Project. \$267,283 total costs.
- 2009-2012 Consultant, DOD grant PC081626 (PI: Zeigler-Johnson). Multilevel Analysis of Neighborhood Characteristics and Prostate Cancer Outcomes. \$222,683 year 1 direct costs.
- 2007-2012 Co-Investigator, NIEHS grant number R01ES008977-10 (PI: Frederica Perera, DrPH) Health Effects of Early-Life Exposures to Urban Pollutants in Minority Children - \$3,864,230 total direct costs
- 2007-2012 Co-Investigator, NCI grant number 1R01CA127532-01 (PI: Frederica Perera, DrPH) Molecular Epidemiology and Lung Cancer: A Nested Case-Control Study. \$1,803,823 total direct costs
- 2011-2012 Co-Investigator, NCATS supplement to UL1RR024156 (PI: Wang, Ph.D.) Building Methodological Infrastructure for Comparative Effectiveness Research. \$284,294 total direct costs.
- 2011-2013 Principal Investigator, Contract from New York City Department of Health and Mental Hygiene's Communities Putting Prevention to Work Initiative Enhanced Evaluation Grant, funded by HHS ARRA funds, \$60,000 total costs.
- 2007-2013 Co-Investigator, NIEHS grant number R01 ES011126 (PI: Ben Rybicki) A Nested Case Control Study of Biomarkers of Prostate Cancer. - \$1,038,199 total direct costs

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| 2009-2013 | Principal Investigator, NIDDK grant # 5R01DK079885-02. Neighborhood Environments and Disparities in Obesity Rates in New York City. \$1,125,981 total direct costs. |
| 2007-2013 | Co-Investigator, NIEHS grant number R01 ES014393 (PI: Robin Whyatt) Phthalate Exposure and Inner City Pediatric Asthma. \$1,893,830 total direct costs |
| 2008-2015 | Co-Investigator, NICHD grant number 1R01HD058515-01 (PI: Bruce Link, PhD) A Lifecourse Approach to Emerging Health Disparities in a U.S. Birth Cohort. \$1,166,205 total direct costs. |
| 2009-2015 | Co-Investigator, NIMH grant# R01MH085132-01 (PI: John Beard). Risk of Depression, Neighborhood Characteristics, and Physical Activity. |
| 2009-2015 | Principal Investigator, Endocrine Disruptors & Obesity Among Inner-City Children, a R01 project within The Columbia Center for Children's Environmental Health, P01 ES009600 (Overall PI, Frederica Perera, DrPH). \$4,934,273 total direct costs. |
| 2010-2013 | Principal Investigator, NICHD grant# R21HD062965-01. Using Google Streetview to Measure Neighborhood Characteristics. \$456,863 total costs. |
| 2013-2014 | Principal Investigator. Center for Injury Epidemiology and Prevention. Pilot study award, Pedestrian Environment Characteristics Associated with Pedestrian-Motor Vehicle Collisions in New York City. \$7,000 total costs |

Departmental and University committees:

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| 2001-2012 | Mailman School of Public Health, Department of Epidemiology, Masters Student Committee, member. |
| 2004-2005 | Mailman School of Public Health, School Wide Masters Student Committee, member. |
| 2010 | Mailman School of Public Health, Valuing Teaching Task Force, member. |
| 2010 | Mailman School of Public Health, Calderone Award Review Committee, member. |
| 2011-2014 | Epidemiology Design Guidance and Expertise (EDGE) Program, Director. |
| 2012-Present | Mailman School of Public Health, Department of Epidemiology, Curriculum Committee, member. |
| 2013-2015 | Mailman School of Public Health, Calderone Award Review Committee, member. |
| 2014-Present | Mailman School of Public Health, Department of Epidemiology Methods Exam Committee |

Teaching experience and responsibilities:

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Courses Taught, Primary Instructor

2000-Present P8432 Environmental Epidemiology, 10-20 students.

2011 EPIC Summer course, Computer Graphics and Data Visualization, 10 students.

2013-Present P9400 Critical Thinking in Epidemiology, 10-15 students

Courses Directed

2008 Workshop on Molecular Epidemiology, Shanghai CDC, Shanghai China, Co-Director, 50 students.

Courses Taught, Preceptor or Lecturer

1998-Present P8307 Molecular Epidemiology, Lecturer, 15-20 students.

2000-2005 Science Survey Course, Science and Environmental Reporting Program, New York University School of Journalism, Lecturer, 10-12 students.

2003 International Workshop of Molecular Epidemiology, Institute for Scientific Interchange Foundation, Turin Italy, Lecturer, 22 students.

2004 International Graduate School of Genetic and Molecular Epidemiology, Karolinska Institute, Sweden, Lecturer, 30 students.

2009 Short Course in Molecular Epidemiology: Biomarkers of exposure, susceptibility & disease, Centre for Epidemiology and Biostatistics, University of Leeds and Imperial College, United Kingdom, Lecturer, 30 students.

2009-Present P8450 Clinical Epidemiology, Lecturer, 30 students.

2010-Present P8440 Cardiovascular Epidemiology, Lecturer, 30 students.

2010-2012 P6300 Environmental Health Sciences Core Class, Lecturer, 300 students.

2013 P8322 Environmental Determinants of Human Health II. Lecturer, 30 students

2015-Present P8586 Applied Methods in Health Services and Outcomes Research. Lecturer, 30 students

Graduate Student, Post-Doctoral, Junior Faculty Supervision and Mentoring

Junior Faculty Mentoring

2010-Present Gina Lovasi, Ph.D., Assistant Professor, Epidemiology

2011-2016 Megan Hall, Ph.D., Assistant Professor, Epidemiology

Post-Doctoral Mentoring

2005-2007 Mark Opler, Ph.D., Epidemiology; Current position: Assistant Professor NYU Medical Center.

2005-2006 James Gangwisch, Ph.D., Psychiatric Epidemiology Training Program; Current position: Assistant Professor New York State Psychiatric Institute.

2005-2006 Helen Kwon, Ph.D., Epidemiology, Kellog Fellow; Current position: Missionary Work in Africa

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- 2006-2009 Gina Lovasi, Ph.D., R.W.J. Health and Society Scholar; Current position: Assistant Professor of Epidemiology, Mailman School of Public Health.
- 2009-2011 Michael Bader, Ph.D., R.W.J. Health and Society Scholar; Current position: Assistant Professor of Sociology, American University.
- 2011-2014 Michelle Maresca, M.D., Pediatrics Fellow, Columbia University Medical Center; Current position: Assistant Professor of Medicine, Rutgers New Jersey Medical School
- 2013-2015 Noel Mueller, Ph.D., Postdoctoral Fellow in Nutrition and Population Health, Institute of Human Nutrition; Current position: Assistant Professor, John Hopkins University.
- 2013-Present Elizabeth Widen, Ph.D., Postdoctoral Fellow in Nutrition and Population Health, Institute of Human Nutrition.

Doctoral Sponsorship

Dissertation Sponsorship

- 2003-2007 Ai Kubo, Ph.D., Epidemiology, 2007; Dissertation: Dietary Factors and the Risk of Barrett's Esophagus. Current position: Staff Scientist, Kaiser Permanente Division of Research
- 2006-2009 Lina Titievsky, Ph.D., Epidemiology, 2010; Dissertation: Built environment and individual body mass index in NYC adults. Current position: Director, Epidemiology, Pfizer, Inc.
- 2007-2012 Russell McBride, Ph.D., Epidemiology, 2012 Awarded with Distinction; Dissertation: Obesity and Prostate Cancer – Bias and Biomarkers. Current position: Instructor, Mount Sinai School of Medicine.
- 2014-2016 Stephen Mooney, Ph.D., Epidemiology, pending; The Impact of Built and Social Environment on Physical Activity among Older Adults.

Dissertation Chair

- 2014 Catherine Richards, Ph.D. Epidemiology, 2014; Dissertation: The effect of hospital financial distress on immediate breast reconstruction. Current position: Staff Scientist at Fred Hutchinson Cancer Research Center

Dissertation Committee

- 2006 Julia Heck, Ph.D., Epidemiology
- 2007 Marian Olsen, Dr.P.H., Environmental Health Sciences
- 2008 Rachel Sobell, Ph.D., Environmental Health Sciences
- 2008 Theresa Janevic, Ph.D., Epidemiology
- 2008 Megan Williams, Ph.D., Environmental Health Sciences
- 2011 Allan Just, Ph.D., Environmental Health Sciences
- 2011 Maria Argos, Ph.D. Epidemiology
- 2012 Keith Drake, Ph.D. Dartmouth College, The Dartmouth Institute

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2013	Ann Marie Reardon, Dr.P.H., Environmental Health Sciences
2013	Ofira Schwart-Soicher, Ph.D., Social Work
2013	Maria Jose Rosa, Ph.D., Environmental Health Sciences
2015	Lori Hoepner, Dr.P.H., Environmental Health Sciences
2016	Manuel Co, Ph.D., School of Nursing

Masters Students

Thesis Supervision

2003	Eunpa Chai, M.P.H., Epidemiology
2003	Kendra Alyce Khawaja, M.P.H., Epidemiology
2004	Elizabeth Garduno, M.P.H., Epidemiology
2004	Ann Madsen, M.P.H., Epidemiology
2004	Sara Cabelli, M.P.H., Epidemiology
2005	Jen Chunn, M.P.H., Epidemiology
2006	Elizabeth Masters, M.P.H., Epidemiology
2006	Rachael Klein, M.P.H., Epidemiology
2006	Jason Lui, M.P.H., Epidemiology
2006	Wendy McDowell, M.P.H., Epidemiology
2006	Deborah Jones, M.P.H., Epidemiology
2008	Tara Kalra, M.P.H., Epidemiology
2008	Catherine Richards, M.P.H., Epidemiology
2009	Michelle Suwannukul, M.P.H., Epidemiology
2009	Todd Case, M.S., Epidemiology
2012	Jennifer Brite, M.P.H., Epidemiology
2012	Joshua Brooks, M.P.H., Epidemiology
2013	Liza Phillips, M.P.H., Epidemiology
2013	Angeline Protacio, M.P.H., Epidemiology
2016	Yvette Ng, M.P.H., Epidemiology

Other professional activities:

Peer Reviewer (Journals)

American Journal of Epidemiology, American Journal of Health Promotion, American Journal of Preventive Medicine, Annals of Epidemiology, Biochemical Pharmacology, BMC Public Health, Cancer Epidemiology Biomarkers & Prevention, Carcinogenesis, Environmental Health Perspectives, Environmental Research, Epidemiology, European Journal of Epidemiology, International Journal of Cancer, International Journal of Health

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Geographics, Health Affairs, Health and Place, Journal of Applied Physiology, Journal of Occupational and Environmental Medicine, Journal of Urban Health, Journal of Urology, Molecular Carcinogenesis, Obesity, Preventive Medicine, PLoS One, and Social Science and Medicine.

Peer Reviewer (Funding agencies)

- | | |
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| 2005-2008 | Italian Association for Cancer Research |
| 2006-2010 | Robert Wood Johnson Active Living Research Program |
| 2007 | The Prostate Cancer Charity |
| 2009-Present | Research Grants Council of Hong Kong, Humanities and Social Science Panel, Standing Review Board Member. |
| 2011-Present | National Institute of Health, CIHB study section, member |
| 2012 | Canadian Breast Cancer Foundation |
| 2012 | The Executive Agency for Higher Education, Research, Development and Innovation Funding, Romania |
| 2013-2014 | Qatar National Research Foundation |
| 2015 | The Ontario Ministry of Labour |

Conference Organizing Committees

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| 2009 | American Society of Preventive Oncology, national conference |
| 2010 | Best Practices and New Directions in Neighborhood Research. Columbia University |
| 2015 | A SMART START: A Symposium on Preventing Childhood Obesity. Mailman School of Public Health. |
| 2015 | Obesity Prevention Month, Public Health Fights Obesity: A Month on the Science of Nutrition. Mailman School of Public Health |

Academic Advisory Panels

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| 2013-Present | External Advisory Panel for 5P01AI089473-02 “Pets and the infant’s microbiome exposures: impact on childhood allergic asthma”, PI Christine Johnson, Henry Ford Health System. |
| 2014-Present | External Advisory Panel for the University of Southern California NIEHS/EPA Children’s Health Center. |

Governmental Advisory Panels

- | | |
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| 2006 | National Cancer Institute. Workshop on the feasibility of a physical activity, weight control trial to prevent breast cancer: the State of the evidence and possible designs |
| 2007-2010 | New York City Government. W.K. Kellogg Foundation - New York City Food and Fitness Initiative |

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2008 National Cancer Institute/American Association for Cancer Research.
Think Tank Conference on Energy Balance and Cancer; Mechanisms and
Mediators

Corporate Advisory Panels

2006-Present Executive Health Exams, Inc. Medical Advisory Board

2006-2007 Alliance for Wellness ROI, Inc.

2006-Present Executive Health Exams, Inc. Life Extension Research Institute

2010-2014 Delos Living, Inc. Scientific Advisory Board

Speakers Bureau

2006-Present New York Presbyterian Hospital Cancer Prevention Program, Speakers
Bureau

Testimony

2009 New York City Council, Hearing on Access to Healthy Foods in New
York City

2009 New York City Planning Commission, Hearings on Food Retail
Expansion to Support Health (FRESH) zoning proposals

Publications:

Peer-Reviewed Articles

Published or In-Press

1. Perera, F.P., Estabrook, A., Hewer, A., Channing, K., Rundle, A., Mooney, L.,
Whyatt, R., Phillips, D.H. DNA damage from environmental carcinogens in human
breast tissue. Cancer Epidemiology, Biomarkers and Prevention, Vol. 4, p233-238
April/May 1995.
2. Blackwood, A., Wolff, M., Rundle, A., Estabrook, A., Schnabel, F., Mooney, L.,
Rivera, M., Channing, K., Perera, F. Organochlorine compounds (DDE and PCBs) in
plasma and breast cyst fluid of women with benign breast disease. Cancer
Epidemiology, Biomarkers and Prevention, Vol 7, p579-583, 1998.
3. Tang, D.L., Rundle, A., Warburton, D., Santella, R.M., Tsai, W-Y., Chiamprasert,
S., Y.Z. Hsu, Perera, F.P. Association between both genetic and environmental
biomarkers and lung cancer: evidence of a greater risk of lung cancer in women
smokers. Carcinogenesis, Vol 19, p1949-1953, 1998.
4. Rundle, A., Tang, D., Hibshoosh, H., Estabrook, A., Schnabel, F., Cao, W., Grumet,
S., Perera, F. The relationship between genetic damage from polycyclic aromatic
hydrocarbons in breast tissue and breast cancer. Carcinogenesis, Vol 21, 1281-9,
2000. *
5. Rundle, A., Tang, D., Zhou, J., Cho, S., Perera, F. The association between
glutathione s-transferase-M1 genotype and polycyclic aromatic hydrocarbon-DNA

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- adducts in breast tissue. *Cancer Epidemiology, Biomarkers and Prevention*, Vol 9, 1079-85, 2000. *
6. Rundle, A., Tang, D., Hibshoosh, H., Schnabel, F., Kelly, A., Levine, R., Zhou, J., Link, B., Perera, F. molecular epidemiologic studies of polycyclic aromatic hydrocarbon-DNA adducts and breast cancer. *Environmental and Molecular Mutagenesis*, Vol 39, 201-7, 2002. *
 7. Rundle, A., Tang, D., Brandt-Rauf, P., Zhou, J., Kelly, A., Schnabel, F., Perera, P. Association between the Ras p21 oncoprotein in blood samples and breast cancer. *Cancer Letters*, Vol 185, 71-8, 2002. *
 8. Tang, DT., Cho, S., Rundle, A., Chen, S., Zhou, J., Hsu, Y., Schnabel, F., Estabrook, A., Perera, F. Polymorphisms in the dna repair enzyme XPD are associated with levels of PAH-DNA adducts and breast cancer risk in a case-control study. *Breast Cancer Research and Treatment*, Vol 75, 159-66, 2002.
 9. Perera, R., Mooney, L., Stampfer, M., Phillips, D., Bell, D., Rundle, A., Cho, S., Tsai, WY., Ma, J., Blackwood, A., Tang, D. Associations between carcinogen-DNA damage, glutathione s-transferase genotypes, and risk of lung cancer in the prospective Physicians' Health Cohort Study. *Carcinogenesis*, Vol 10, 1641-6, 2002.
 10. Tang, D., Rundle, A., Mooney, L., Cho, S., Schnabel, F., Estabrook, A., Kelly, A., Levine, R., Hibshoosh, H., Perera, A. Sulfotransferase 1A1 (SULT1A1) polymorphism, PAH-DNA adduct levels in breast tissue and breast cancer risk. *Breast Cancer Research and Treatment*, Vol 2, 217-22, 2003.
 11. Rundle, A., Schwartz, S. Issues in the epidemiologic analysis and interpretation of intermediate biomarkers. *Cancer Epidemiology Biomarkers and Prevention*, Vol. 12, 491-6, 2003. *
 12. Ahsan, H., Rundle, A. Measures of genotype vs. gene products: promise and pitfalls in cancer prevention. *Carcinogenesis*, Vol, 24, 1229-34, 2003.
 13. Rundle, A., Tang, D., Mooney, L., Grumet, S., Perera, F. The interaction between alcohol consumption and GSTM1 genotype on PAH-DNA adduct levels in breast tissue. *Cancer Epidemiology Biomarkers and Prevention*, Vol, 12, 911-4, 2003. *
 14. Li, Y., Marion, MJ., Rundle, A., W Brandt-Rauf, P. A common polymorphism in XRCC1 as a biomarker of susceptibility for chemically induced genetic damage. *Biomarkers*. Vol, 8, 408-12, 2003.
 15. Gatto, N., Campbell, U., Rundle, A., Ahsan, H. Further development of the case-only design for assessing gene-environment interaction: Evaluation of and

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- adjustment for bias. *International Journal of Epidemiology*, Vol. 33, 1014-24, 2004.
16. Rybicki, B., Rundle, A., Savera, A., Sankey, S., Tang, D. Polycyclic aromatic hydrocarbon-DNA adducts in prostate cancer. *Cancer Research*, Vol. 64, 8854-9, 2004.
 17. Rundle, A. Molecular epidemiology of physical activity and cancer. *Cancer Epidemiology Biomarkers and Prevention*, Vol. 14, 227-36, 2005. *
 18. Rundle, A., Vineis, P., Ahsan, H. Design options for molecular epidemiology research within cohort studies. *Cancer Epidemiology Biomarkers and Prevention*, Vol 14, 1899-907, 2005. *
 19. Chun J., Joseph KA., El-Tamer M., Rundle A., Jacobson J., Schnabel F. Cohort study of women at risk for breast cancer and gross cystic disease. *American Journal of Surgery*, Vol 190, 583-587, 2005.
 20. Rundle, A., Orjuela, M., Mooney, L., Tang, D., Kim, M., Calcagnotto, Richie, J., Perera, F. Moderate physical activity is associated with increased blood levels of glutathione among smokers. *Biomarkers*, Vol 10, 390-400, 2005. *
 21. Rybicki, B., Nock, N., Savera, A., Tang, D., Rundle, A. Polycyclic aromatic hydrocarbon-DNA adduct formation in Prostate Carcinogenesis. *Cancer Letters*, Sept, 2005.
 22. Gangwisch, J., Heymsfield, S., Boden-Albala, B., Buijs, R., Kreier, F., Pickering, T., Rundle, A., Zammit, G., Malaspina, D. Short Sleep Duration as a risk factor for hypertension: Analyses of the NHANES I. *Hypertension*, Vol. 47, 833-9, 2006.
 23. Steindorf, K., Friedenreich, C., Linseisen, J., Rohrmann, S., Rundle, A., Veglia F, Vineis P, Johnsen NF, Tjonneland A, Overvad K, Raaschou-Nielsen O, Clavel-Chapelon F, Boutron-Ruault MC, Schulz M, Boeing H, Trichopoulou A, Kalapothaki V, Koliva M, Krogh V, Palli D, Tumino R, Panico S, Monninkhof E, Peeters PH, Boshuizen HC, Bueno-de-Mesquita HB, Chirlaque MD, Agudo A, Larranaga N, Quiros JR, Martinez C, Barricarte A, Janzon L, Berglund G, Bingham S, Khaw KT, Key TJ, Norat T, Jenab M, Cust A, Riboli E. Physical activity and lung cancer risk in the European Prospective Investigation into Cancer and Nutrition (EPIC) cohort. *International Journal of Cancer*, Vol. 119, 2389-97, 2006.
 24. Rundle, A., Carcinogen-DNA adducts as a biomarker for cancer risk. *Mutation Research*, Vol. 600, 23-36, 2006. *
 25. Miller, T., Rauh, V., Glied, S., Hattis, D., Rundle, A., Andrews, H., Perera F. The economic impact of early life environmental tobacco smoke exposure: early

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- intervention for developmental delay. *Environ Health Perspect*, Vol 114, 1585-8, 2006.
26. Rundle, A., Roux, AV., Freeman, L., Miller, D., Neckerman, K., Weiss, CC. The urban built environment and obesity in New York City: A multilevel analysis. *American Journal of Health Promotion*, Vol. 21 (4 Suppl), 326-34, 2007. *
 27. Aryeh D. Stein, A., Kahn, H., Rundle, A., Zybert, P., de Bruin, K., Lumey, L. Anthropometry in middle age following exposure to famine during gestation: evidence from the Dutch famine. *American Journal of Clinical Nutrition*. Vol. 85, 869-76, 2007.
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Under Review

1. Kaufman, T., Neckerman, K., Sheehan, D, Rundle, A., Lovasi, A. Does Membership Matter? Associations among Gyms or Related Facilities and Objectively Measured Physical Activity. Health and Place, submitted 2014.

Patents/Intellectual Property

1. Rundle, A., Bader, M., Mooney, S. System, Device and Methods for Selecting Map Segments from a Sample Plan. Provisional Application for a Patent 2012.

Book Chapters

1. Rundle, A., Ahsan, H., Molecular Epidemiologic Studies Nested within Cohorts. In Molecular Epidemiology of Chronic Disease. Edited by Wild, C., Vineis, P., Garte, S. John Wiley & Sons, Ltd, London. 2008.*

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2. Rundle, A. Mechanisms Underlying the Effects of Physical Activity on Cancer. In Physical Activity, Dietary Calorie Restriction and Cancer. Edited by Anne McTiernan. Springer Science, New York. 2010.*
3. Neckerman, K., Purciel, M., Quinn, J., Rundle, A. Urban Design Qualities in New York City. In Measuring Urban Design. Edited by Reid Ewing and Otto Clemente. Island Press, Washington, DC. 2013.

Letters to the Editor

1. Perera F., Rundle A. Correspondence re: Gammon et al, Environmental toxins and breast cancer on Long Island. I. Polycyclic aromatic hydrocarbon DNA adducts. 11, 677-685, 2002. Cancer Epidemiology Biomarkers & Prevention. Vol 1, 75 2003.
2. Rundle, A., Correspondence re: “Bulky DNA adducts as risk indicators of lung cancer in a Danish case-cohort study”. International Journal of Cancer, Vol 120, 214, 2006.*
3. Rundle, A., Neugut, AI. Correspondence re: “Hemodilution of Prostate Specific Levels Among Obese Men”. Cancer Epidemiology Biomarkers & Prevention, Vol. 18, 2343-4, 2009*.
4. Cereijido, A, Richards, C., Rundle, A. Correspondence re: “The Joy of Cooking Too Much: 70 years of calorie increases in Classic Recipes”. Annals of Internal Medicine, epub, September 2009*.
5. Lebwohl B, Blaser MJ, Ludvigsson JF, Green PH, Rundle A, Sonnenberg A, Genta RM. Am J Epidemiol. Authors reply re “Decreased risk of celiac disease in patients with helicobacteria pylori colonization” Epub ahead of print April3, 2014.

Lay/Practitioner Publications

1. Rundle, A. Adapting molecular epidemiologic approaches to the study of physical activity and cancer. American College of Sports Medicine’s Certified News. Vol 17, 7-9.*
2. Lovasi, G.S., Rundle, A., Trees may help city kids breathe easy. Prepared for Treeline, a quarterly publication of the International Society of Arboriculture, 2008.
3. Rundle, A. Heed the Warnings of Your BMI. CNN.com Health Editorial, February 2013.
4. Friedman, M., Rundle, A. Don’t let frequent business travel ruin your health. CEO.COM, November 2014.

Public Release Data Sets

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1. NYC Urban Tree Canopy Assessment Metrics 2010. New York City Open Data. <https://nycopendata.socrata.com/Environment/NYC-Urban-Tree-Canopy-Assessment-Metrics-2010/hnxz-kkn5>
2. New York City Neighborhood Walkability Scale 2010. New York City Department of Health and Mental Hygiene. Environment and Health Data Portal. <http://a816-dohbesp.nyc.gov/IndicatorPublic/PublicTracking.aspx>

Illustrations

1. Figure 1. in Perera, F., Environmental Cancer: Who are Susceptible? Science, Vol 278, p1068-1073, 1997.
2. Figures 2.5, 4.5 and 7.1 in What's the Risk? A Guide to Environmental Health Hazards. Goldstein, I., and Goldstein, M., Oxford University Press, 2001

Multimedia

1. Rundle, A., Moss-Salentijn, L., 3-Dimensional Reconstruction of Fetal Dental Tissue. Interactive CD-Rom. Columbia University School of Dental and Oral Surgery. 1999*.
2. Rundle, A., Aflatoxin Carcinogenesis. Interactive CD-Rom. Mailman School of Public Health, P8432 Environmental Epidemiology, 2000*.
3. Rundle, A., Vinyl-Chloride Carcinogenesis. Interactive CD-Rom. Mailman School of Public Health, P8432 Environmental Epidemiology, 2000*.
4. Rundle, A., Brandt-Rauf, P., P53 Wildtype-Mutant Protein Conformation Morph. A Sterio-sopic 3-Dimensional Film. Digital Video. Mailman School of Public Health, P8432 Environmental Epidemiology, 2001*.
5. Rundle, A. Carcinogen and DNA Animation and Graphics for Bill Moyers Documentary, PBS, May 10th, 2002*.
6. Cereijido, F., Rundle, A. Mahler Y Leche. Four Video Installations. Solo show at Centro Cultural Borges, Buenos Aires, 2003.
7. Cereijido, F., Rundle, A. Mahler Y Leche. Four Video Installations. Solo show at National University, School of Design and Architecture, Buenos Aires, 2004.
8. Rundle, A., Cereijido, F. Vectors of Fate. Video shown on Public Television, Buenos Aires, 2005.*
9. Cereijido, F., Rundle, A., Travel by Milk: Tijuana. Video installation. Permanent collection of the La Jolla Museum of Contemporary Art, 2006.

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10. Cereijido, F., Rundle, A., Travel by Milk: Detroit. Video installation. Group show at 555 Gallery, Detroit, Michigan, 2006.
11. Rundle, A., Cereijido, F. Sumo Y Leche. Shown as part of Renmora at M&A (Materials and Applications), Los Angeles, California, 2008.*
12. Rundle, A., Cereijido, F. Sumo Y Leche. Shown as part of Al Df en Leche, at Universidad Del Claustro De Sor Juana, Mexico City 2009.*
13. Cereijido, F., Rundle, A., Travel by Milk: Tijuana. Video installation. Shown as part of Al DF en Leche, at Universidad Del Claustro De Sor Juana, Mexico City 2009.
14. Rundle, A. Development of air spaces in the human lung. Digital video. Thoracic Society Annual Meeting 2009.*

Invited presentations:

1. A Molecular Epidemiologist's Journey: from Chemical Carcinogens to Physical Activity. Derald H. Ruttenberg Cancer Center, Mount Sinai School of Medicine, Oct 2002.
2. Primer on Epidemiology for laboratory scientists. Sixth International Course of Molecular Epidemiology. Torino, Italy. December 2003.
3. Gene-Environment Interactions. Sixth International Course of Molecular Epidemiology. Torino, Italy. December 2003.
4. Misclassification and Sample Size. Sixth International Course of Molecular Epidemiology. Torino, Italy. December 2003.
5. Physical Activity, Blood Glutathione and Lung Cancer. GEN-AIR VII Investigators Meeting, International Agency for Research on Cancer. Torino, Italy, December 2003.
6. Advanced Study Design. International Graduate School of Genetic and Molecular Epidemiology. Karolinska Institute, Stockholm, Sweden. March 2004
7. Advanced Statistical Analyses. International Graduate School of Genetic and Molecular Epidemiology. Karolinska Institute, Stockholm, Sweden. March 2004
8. Molecular Epidemiology: Theory and Examples from Breast Cancer. Hospital Italiano de Buenos Aires. Buenos Aires, Argentina. April 2004.
9. Molecular Epidemiology of Physical Activity and Cancer. Imperial College of London. London, England, November 2004.

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10. Design Options for Biomarker Studies within Large Cohort Studies. Imperial College of London. London, England, November 2004.
11. Physical Activity and Obesity Research: an Urban Perspective. Mailman School of Public Health, Department of Epidemiology Seminar Series, February, 2005
12. The Molecular Epidemiology of Physical Activity and Cancer. Albert Einstein School of Medicine, New York, March 2005.
13. The Urban Environment: Physical Activity & Obesity – Just how much of a risk for cancer? American Cancer Society, National Minority Cancer Awareness Week, April 2005.
14. Physical Activity and Obesity Research: an Urban Perspective. Department of Epidemiology, University of Michigan, Michigan, October 2005.
15. Physical Activity and Obesity Research: an Urban Perspective. Henry Ford Cancer Center, Detroit, Michigan, October 2005.
16. The epidemic of overweight among New York City children: Research on physical activity and body size in Head Start. The 2005 Lucille N. Austin Lecture. Columbia University School of Social Work, New York, December 2005.
17. The urban built environment and obesity in New York City: A multilevel analysis. Robert Wood Johnson Active Living Research Conference Plenary Session, San Diego, California, April 2006.
18. The built environment and body mass index in New York City. American Institute of Architecture, Fit City Conference, New York City, New York, May 2006.
19. Weight gain upon entering college: The Freshman 15 (or more)? New York Institute of Technology. Old Westbury, New York, June 2006.
20. Obesity and Prostate Cancer Prognosis and Survival. Roswell Park Cancer Institute. Buffalo, New York, July 2006
21. The Obesity Epidemic in New York City: Physical Activity in Kids and Obesity in Adults. Lehman College, New York, NY Sept 2006
22. Obesity, Exercise & Cancer. Metropolitan Transit Authority, Wellness Forum, New York, NY Nov 2006.
23. Obesity, Exercise & Cancer. American Express, Wellness Forum, New York, NY Jan 2007.

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24. Built and Social Characteristics of Neighborhoods and Body Size Among Residents of New York City. University of North Carolina, Chapel Hill, North Carolina, March 2007
25. Analyses of Physical Activity, Biomarkers and Lung Cancer Risk Among Non- and Ex-smokers in EPIC. Imperial College, London, England, April 2007
26. Urban Design, Sprawl and Body Size Among Residents of New York City. International Forum on Public Health, Shanghai, China, December 2007.
27. Analyses of Case-Only Study Designs. Shanghai Medical School, Shanghai, China, December 2007.
28. Obesity, Exercise & Cancer. NY Life, Employee Wellness Seminar, New York, NY Jan 2008.
29. Neighborhood Environment and Health. New York City Department of Health and Mental Hygiene Annual Staff Meeting, New York City, June 2008.
30. Advanced Epidemiologic Study Design. Molecular Epidemiology Workshop, Shanghai Centers for Disease Control, Shanghai, China, December 2008.
31. Obesity and neighborhood built and social environments: Chinese boxes and eco-epidemiology. Moores Comprehensive Cancer Center, San Diego, March 2009.
32. Neighborhood social and built environments and obesity in New York City. New York Academy of Medicine, New York City, September 2009.
33. Using Biomarkers in Nested Case-Control and Case-Cohort Studies. Imperial College, London, England, October 2009.
34. Using Google Street View to Implement Community Audit Tools: The Pedestrian Environment Data Scan. Active Living Research Conference, San Diego, February 2010.
35. The Epidemic of Childhood Obesity: Individual, Environmental, and Social Causes. Child and Adolescent Psychiatry, Grand Rounds, Columbia University/ New York State Psychiatric Institute, New York, NY February 2010.
36. Neighborhood Social and Built Environments and Health. Million Trees NYC Research Symposium, New York NY, March 2010.
37. Aspirations for Healthy Food Among Hispanic Immigrants: The NYC Experience. Shopping for Health Conference, University of Washington, Seattle, WA, May 2010.

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38. Using Google Street View to Measure Neighborhood Conditions (with Dr. Teitler). Best Practices and New Directions in Neighborhood Research Conference, Columbia University, New York, NY, October 2010.
39. The Hunger/Obesity Paradox. NYC Emergency Food Program Advocacy Conference. New York, NY, October 2010.
40. Prenatal Exposures to Endocrine Disruptors (with Drs. Perera and Oberfield). Pediatric Grand Rounds, Columbia University Medical Center, New York, NY October 2010.
41. Neighborhood Built and Social Environments and Health: Moving beyond census variables to describe contexts. Henry Ford Health System, Detroit, MI. March 2011.
42. Nested Case-Control and Case-Cohort Study Design and the use of Biomarkers. Henry Ford Health System, Detroit, MI. March 2011.
43. Obesity, Exercise & Cancer. American Express, Wellness Lunch, New York, NY Jul 2011.
44. Prenatal Exposure to Polycyclic Aromatic Hydrocarbons and Childhood Obesity. University of Illinois at Chicago School of Public Health, Chicago, IL October 2011.
45. Multi-level Approaches to the Study of Endocrine Disrupting Pollutants and Childhood Obesity. University of Massachusetts Amherst, Amherst, MA February 2012.
46. Designing Cities to Fight Obesity. New York University, New York City, NY, May 2012.
47. Neighborhood walkability and physical activity and obesity: Translating research into action. National Organization of City Transportation Officials annual meeting, New York City, NY, Oct 2012.
48. Childhood Obesity and Prenatal Exposures to Environmental Pollutants. Keystone Mini-symposium on Childhood Obesity and the Environment, NIEHS, Research Triangle Park, NC, Nov 2012.
49. Neighborhood Park Access and Quality and Body Mass Index in New York City, Active Living Research Annual Conference, San Diego, CA, Feb 2013.
50. Turning the Tide on Obesity: Beyond Eating Less and Exercising More. Mailman School of Public Health Grand Rounds, New York, NY, March 2013.

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51. Residential Neighborhood Walkability and Physical Activity in New York City: Using GPS to Understand Neighborhoods. University of Washington, School of Public Health, Seattle, WA, April 2013.
52. Childhood Obesity and Prenatal Exposures to Chemical Pollutants: A “Cells to Society” Research Perspective. New York University School of Medicine, Department of Population Health, New York City, NY, April 2013.
53. Prenatal Exposures to Polycyclic Aromatic Hydrocarbons and Di-(2-ethylhexyl)-Phthalate and Body Size in Childhood. International Society of Environmental Epidemiology, Annual Meeting 2013. Basel, Switzerland, August 2013.
54. Recent Work on Food Environments in New York City: The Built Environment and Health Research Group. Hunter College Food Policy Forum. Hunter College, New York City, Oct 2103.
55. The Role of Neighborhood Characteristics on Health-Related Outcomes in Older Adults: Findings from the Health and Retirement Survey and the UAB Study of Aging. Invited Discussant. The Gerontological Society of American Annual Meeting. New Orleans, November 2013.
56. How Prenatal Exposure to Air Pollutants and Phthalates May Affect a Child’s Body Size. EPA/NIEHS Children's Centers 2013 Webinar Series, December 2013.
57. Food Environments, Diet and Obesity in New York City. NY State Department of Agriculture and Markets’ Council on Food Policy, Albany, NY January 2014.
58. Urban Design and Neighborhood Effects on Health. Studio-X Rio, Rio De Janeiro, Brazil, March 2014.
59. Neighborhood Urban Form and Physical Activity: What are neighborhoods and how do we use them? Conversations Around Public Health, Architecture, and Cities conference at Studio-X New York, New York NY, April 2014.
60. Prenatal Exposures to Polycyclic Aromatic Hydrocarbons (PAH) and Childhood BMI Trajectories. NIEHS/EPA Webinar Series, Feb 2015.
61. Neighborhood Influences on Health: New York City and Rio das Pedras. American Institute of Architects Design and Health Research Consortium Meeting, Robert Wood Johnson Foundation Headquarters, Princeton Junction, NJ, March 2015.
62. Prenatal Exposures to Polycyclic Aromatic Hydrocarbons in Air Pollution and Childhood Obesity, NY Obesity Research Center, New York, NY, April 2015
63. Why Focus on Pregnancy and Early Childhood? Plenary Talk, A SMART START: A Symposium on Preventing Childhood Obesity. Mailman School of Public Health,

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New York, NY, April 2015.

64. Neighborhood built environments and obesity and physical activity in New York City. Institute for Human Nutrition, Obesity Course, New York, NY, April 2015.
65. The Obesity Epidemic: A Focus on Prevention. World Economic Forum, Global Leadership Fellows Programme, Wharton School of Business, Philadelphia, PA, July 2015.
66. Beating the Stress of the City: Urban Design to Support Physical Activity. German House for Research and Innovation, German Consulate, New York NY, Nov 2015
67. The Dynamics of Health within Married Couples. EHE International, Inc. Annual Medical Retreat, New York City, NY. Jan 2016.
68. Exposures to Polycyclic Aromatic Hydrocarbons and Childhood Growth Trajectories and Body Composition: Linkages to Disrupted Self-Regulatory Processes. NIEHS/EPA Children's Centers Webinar, Jan 2016.
69. Exposures to Polycyclic Aromatic Hydrocarbons and Childhood Growth Trajectories and Body Composition: Linkages to Disrupted Self-Regulatory Processes. Mount Sinai Medical School, New York City, NY, Jan 2016
70. Using Google Street View to Assess Environmental Contributions to Pedestrian Injury. NYC Roadway Trauma Symposium, Bellevue Hospital Center, New York City, NY, March 2016.

Media Coverage

Newspaper, Magazines and News Web Sites

NY Times (five separate studies reported on in the: Business Day, Health, NY/Region, and Science Times sections)

Wall Street Journal (Sections: Business and Health. Blogs: In Charge Blog and The Middle Seat Terminal)

BBC (Blog - The Passport). Bloomberg Business Week, CBS Atlanta, Chicago Tribune, CNN.com (Editorial in the Health Section), Consumer Reports, Dallas News, Forbes, FoxNews.com, Free Malaysia Today, Jamaican Times, LA Times, Live Punjab, MSN.com, New Scientist, Nigerian Tribune, NBC.com, San Francisco Chronicle, Star-Telegram, The Boston Globe, The Chicago Tribune, The Daily News, The Economist, The Huffington Post, The Miami Herald, The Mirror, The Seattle Times, The Times of India, The Vancouver Sun, The Washington Post, Time, Self, Shape, US News, Wired Magazine

Radio


Australian Broadcast Company, Latino USA, Rudy Maxa Show, Z-100

Andrew G. Rundle
Curriculum Vitae

Television


Australian Broadcast Company

BBC World News

(http://news.bbc.co.uk/2/hi/programmes/fast_track/9499021.stm )


NTN24 “Science, Health and Technology”

WNBC

(<http://www.nbcnewyork.com/video/#!/on-air/as-seen-on/Unhealthy-Pregnancy-Weight-Gain---Child-Obesity/296967141> )

Online Video and Audio

Obesity Lecture, Feb 2011

(<http://www.veomed.com/va022158182011#> )

A Surprising Factor in Childhood Obesity: Air Pollution, April 2012

(<http://youtu.be/RrZ7j4pN234> )

NIEHS Virtual Forum, Nov 2012

(<http://www.youtube.com/TheNIEHS> )

Mailman School of Public Health Grand Rounds, Mar 2013

([Shortened link](#) )


Measuring Obesity, Australian Broadcast Company Radio, Aug 2013

([Shortened link](#) )

Knight Foundation Application Video, OPEN-CANVAS Project, Oct 2013

(http://youtu.be/-U_pleu0tK8 )

Hunter College Food Policy Forum, Oct 2013

Main talk (<http://youtu.be/b0r7cVCVjIU> )

Discussion pt 1. (<http://youtu.be/yBtH4ROwzcA> )

Discussion pt 2. (http://youtu.be/V51UwV6lr_c )

German Center for Innovation, Nov 2015

(<https://vimeo.com/144897832> )