

CURRICULUM VITAE
Nicole Cardello Deziel, PhD, MHS

Version date: 09/22/2025

Contact information:

Address: Yale School of Public Health
Department of Environmental Health Sciences
Yale Center for Perinatal, Pediatric and Environmental Epidemiology
One Church Street, Rm 628
New Haven, CT 06510
Phone: 203-785-6062
EMAIL: nicole.deziel@yale.edu
ORCID: 0000-0002-5751-9191

Proposed for promotion to:

Professor with Tenure, Yale School of Public Health, Department of Environmental Health Sciences

Term:

Primary Appointment: Associate Professor with Tenure beginning 07/01/2022
Secondary Appointments: 07/01/2022-07/30/2026
Yale Schools of the Environment and Engineering & Applied Science

Education:

08/1994-05/1998 BSPH, Environmental Sciences & Engineering, University of North Carolina at Chapel Hill, Chapel Hill, NC
08/1998-01/2000 MHS, Environmental Health Engineering/Industrial Hygiene, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
08/2002-05/2008 PhD, Environmental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

Faculty Affiliations:

Yale Center for Perinatal, Pediatric & Environmental Epidemiology (Co-Director)
Yale Cancer Center
Yale Center for Climate Change and Health
Yale Center for Environmental Justice
Yale Center for Green Chemistry and Engineering

Career/Academic Appointments:

1997-1998 Research Assistant, University of North Carolina at Chapel Hill, Chapel Hill, NC
1999 Environmental Scientist, U.S. Environmental Protection Agency National Exposure Research Laboratory, Research Triangle Park, NC
2000 Research Scientist, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
2000-2002 Staff Scientist, Physicians Committee for Responsible Medicine, Washington, DC
2007-2010 Senior Environmental Health Scientist, WESTAT, Rockville, MD
2008-2010 Adjunct Faculty, Georgetown University Center for Continuing & Professional Education, Environmental Health, Washington, DC
2008-2012 Lecturer/Adjunct Assistant Professor, University of Maryland School of Public Health, Introduction to Environmental Health, College Park, MD
2010 Instructor, Foundation for Advanced Education in the Sciences, National Institutes of Health, Introduction to Environmental Health, Bethesda, MD

2010-2012	Postdoctoral Fellow, Occupational and Environmental Epidemiology, National Cancer Institute, Bethesda, MD
2012-2013	Research Fellow, Occupational and Environmental Epidemiology, National Cancer Institute, Bethesda, MD
2014-2020	Assistant Professor, Department of Environmental Health Sciences, Yale School of Public Health, New Haven, CT
2020-2022	Associate Professor with Term, Department of Environmental Health Sciences, Yale School of Public Health, New Haven, CT
2022-present	Associate Professor with Tenure, Department of Environmental Health Sciences, Yale School of Public Health, New Haven, CT

Administrative Positions:

2023-present	Co-Director, Yale Center for Perinatal, Pediatric, and Environmental Epidemiology
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Professional Honors & Recognition:

International/National/Regional

1994-1998	Dean's List, University of North Carolina at Chapel Hill, Chapel Hill, NC
2007	Student Travel Award, International Society of Exposure Analysis
2007	First Prize, Student Poster Competition, International Society for Exposure Analysis
2010	NIH Sallie Rosen Kaplan Fellowship for Women in Science
2012	NIH Fellows Award for Research Excellence
2012	Travel Award, International Society for Exposure Science
2017	Joan M. Daisey Outstanding Young Exposure Scientist Award, International Society of Exposure Science
2018	Honorable Mention, Annual Meeting of the American Society for Preventive Oncology Poster Competition
2024	National Academies of Medicine Emerging Leader

Yale University/Yale School of Public Health

2020	Yale Cancer Center Population Science Research Prize
2022	Yale School of Public Health Preventing the Next Public Health Threat Prize
2025	Yale School of Public Health Team Science Research Award

Grant/Clinical Trials History:

Current Grants

Agency:	NIH/NIEHS
ID#:	OT2ES038705
Title:	The East Palestine Train Derailment Health Research Program
PI:	Deziel/Bell
Total costs:	\$296,342 (Year 1 only)
Project Period:	09/25/2025 - 08/31/2026
Agency:	NIH/NCI
ID#:	1R21CA297737-01A1
Title:	Extreme Weather-Related Exposures and Pediatric Thyroid Cancer Risk
PI:	Deziel/Ma
Total costs:	\$460,463
Project Period:	09/04/2025 - 08/31/2027
Agency:	American Cancer Society
ID#:	RSG-21-079-01-CPSH
Title:	Thyroid Hormone Disrupting Chemicals and Pediatric Thyroid Cancer
PI:	Nicole C. Deziel

Percent effort: 15%
 Total costs: \$791,605 (of which \$131,934 indirects)
 Project period: 01/01/2022 – 12/31/2025

Agency: NIH/NIMHD
 ID#: 1R01MD01605-01A1
 Title: Air Pollution, Heat, Cold, and Health: Disparities in the Rural South
 MPIs: Nicole C. Deziel and Michelle Bell
 Percent effort: 20%
 Total costs: \$3,326,603
 Project period: 07/24/2022 – 03/31/2027

Agency: NIH/NIEHS
 ID#: P42
 Title: Project 2: Evaluation of novel markers of exposure and biological response to 1,4-dioxane
 Yale Superfund Training and Research Center: Emerging Water Contaminants: Investigating
 and Mitigating Exposures and Health Risks:
 PI: Vasilis Vasiliou, PhD
 Role on Project: Research Project PI
 Percent effort: 8%
 Total costs: \$2,789,021 (of which \$940,237 indirects)
 Project period: 04/01/2022 – 03/31/2027

Agency: Fogarty International Center/NIH/DHHS
 ID#: U01/U2R
 Title: Global Environmental and Occupational Health Hub for Research Training in the Middle East
 and North Africa Region (GEOHealth MENA)
 MPIs: Hani Mowafi and Carrie Redlich
 Role on Project: Co-investigator
 Percent effort: 6%
 Total costs: \$1,499,997 (of which \$56,937 indirects)
 Project period: 06/01/2022 – 02/28/2027

Agency: NIH/NIEHS
 ID#: R24ES036135-01
 Title: Accelerating Data and Metadata Standards in the Environmental Health Sciences Study of
 Emerging Water Contaminants
 PI: Kei-Hoi Cheung
 Role on Project: Co-Investigator
 Percent effort: 10%
 Total costs: \$3,189,759
 Project period: 04/01/2024 - 03/31/2029

Agency: NIH/NIEHS
 ID#: 1R01ES034756-01A1
 Title: Environmental Chemical Exposures and Biologic Markers for Cerebral Palsy (EXPOSE CP)
 PI: Zeyan Liew
 Role on Project: Co-Investigator
 Percent effort: 5%
 Total costs: \$3,257,543
 Project period: 05/15/2024 - 02/28/2029

Agency: NIH/NIEHS

ID#: R25ES029052-01A1
 Title: Summer Research Experience in Environmental Health (SREEH)
 MPIs: Vasilis Vasiliou and Caroline Johnson
 Role on Project: Faculty mentor
 Percent effort: 0%
 Total costs: \$530,035 (of which ~\$39,537 indirects)
 Project period: 02/01/2015 – 01/31/2030

Agency: NIH/National Institute of Environmental Health Sciences
 ID#: K99ES034459
 PI: Longxiang Li
 Role on Project: Advisory Committee Member
 Percent effort: 0%
 Total costs: \$936,390
 Project period: 09/01/2022 – 08/31/2027

Agency: NIH/Office of the Director
 ID#: DP5 OD033415
 PI: Mary Willis
 Role on Project: Advisory Committee Member
 Percent effort: 0%
 Total costs: \$2,062,500
 Project period: 09/15/2022 – 08/31/2027

Past Funded Grants

Agency: Yale Cancer Center Pilot Grant
 ID#: N/A
 Title: Using neonatal dried blood spots to evaluate environmental exposures, the neonatal metabolome, and pediatrics and early-onset cancers
 PI: Nicole C. Deziel
 Percent effort: 0%
 Total costs: \$50,000 (of which \$0 indirects)
 Project period: 09/01/2021 – 07/31/2023

Agency: Yale Cancer Center
 ID#: N/A
 Title: Investigating Structural and Social Determinants of Health to Address Cancer Disparities and Promote Health Equity Research
 PI: Marcella Nunez-Smith, MD, MHS
 Role on Project: Co-Investigator and Project Lead
 Percent effort: 5%
 Total costs: \$149,951 (of which \$0 indirects)
 Project period: 02/01/2021 – 07/31/2022 (NCE)

Agency: NIH/NIEHS
 ID#: P42
 Title: Yale Superfund Training and Research Center: Emerging Water Contaminants: Investigating and Mitigating Exposures and Health Risks: Community Engagement Core
 PI: Vasilis Vasiliou, PhD
 Role on Project: Lead (2022-2023)
 Percent effort: 10%
 Total costs: \$716,807 (of which \$194,406 indirects)
 Project period: 04/01/2022 – 03/31/2027

Agency: NIH/NIMHD
 ID#: 5R01MD012769
 Title: Environmental Health Disparities in an Older Population
 PI: Michelle Bell, PhD
 Role on Project: Co-investigator
 Percent effort: 10%
 Total costs: \$3,927,549 (of which ~\$860,831 indirects)
 Project period: 09/26/2017 – 06/30/2022

Agency: NIH/National Cancer Institute
 ID#: F31CA281
 PI: Arfan (Sunny) Siddique
 Role on Project: Faculty mentor
 Percent effort: 0%
 Total costs: \$47,694
 Project period: 08/18/2023 – 02/18/2024

Agency: NIH/NIEHS
 ID#: 5F31ES031441-02
 Title: Evaluating Exposure to Unconventional Oil and Gas Development and Childhood Leukemia Risk
 PI: Cassandra Clark, MPH
 Role on Project: Sponsor
 Percent effort: 0%
 Total costs: \$106,371 (of which \$0 indirects)
 Project period: 09/01/2020 – 08/31/2022

Agency: Yale Climate Change and Health Center
 ID#: N/A
 Title: Ambient Temperature During Pregnancy and Risk of Childhood Leukemia
 MPIs: Tormod Rogne, MD, PhD, Xiaomei Ma, PhD, and Nicole Deziel, PhD, MPH
 Percent effort: 0%
 Total costs: \$9,937 (of which \$0 indirects)
 Project period: 05/01/2022-04/30/2023

Agency: High Tide Foundation
 ID#: N/A
 Title: Ethane Cracker Plants in the United States: Emissions and Community Vulnerability
 PI: Nicole C. Deziel, PhD, MPH
 Percent effort: 10%
 Total costs: \$99,961 (of which \$0 indirects)
 Project period: 01/01/2021 – 06/30/2022 (NCE)

Agency: U.S. Environmental Protection Agency
 ID#: CR839249
 Title: Drinking Water Vulnerability and Neonatal Health Outcomes in Relation to Oil and Gas Production in the Appalachian Basin
 MPIs: Nicole C. Deziel, PhD, MPH, and James Saiers, PhD
 Percent effort: 10%
 Total costs: \$1,998,515 (of which \$805,372 indirects)
 Project period: 09/01/2017 – 08/31/2021 (NCE)

Agency: American Cancer Society

ID#: 127509-MRSG-15-147-01-CNE
Title: Exposure to Halogenated Aromatic Compounds and Risk of Thyroid Cancer
PI: Nicole C. Deziel, PhD, MPH
Percent effort: 60%
Total costs: \$729,000 (of which \$54,000 indirects)
Project period: 01/01/2016 – 12/31/2020

Agency: U.S. Environmental Protection Agency
ID#: D83587101
Title: SEARCH: Solutions for Energy, AiR, Climate, and Health
PI: Michelle Bell, PhD
Role on Project: Co-investigator
Total costs: \$10,000,000 (of which \$1,909,036 indirects)
Project period: 10/01/2015 – 09/30/2020

Pending Grants

Agency: American Cancer Society
Title: Air Pollution, Extreme Temperature, and Early Onset Thyroid Cancer Risk
PI: Nicole C. Deziel, PhD, MPH
Percent effort: 15%
Total costs: \$296,968
Project period: 04/01/2026 – 3/31/2028

Agency: NIH/NIEHS
ID#: T32 ES037255-01
Title: Training Program in Perinatal and Pediatric Epidemiology: Environmental and Molecular Factors
MPIs: Nicole C. Deziel, PhD, MPH, and Andrew DeWan, PhD
Percent effort: 0%
Total costs: \$1,941,073.04
Project period: 04/01/2026-03/31/2031

Agency: NIH
Title: GENESIS-ASD: Gene–Environment Susceptibility and Interaction Study in Autism Spectrum Disorder
PI: Zhao/Jiang/Deziel
Total costs: \$4,987,301
Project Period: 09/01/2025 - 08/31/2028

Invited Speaking Engagements, Presentations, Symposia & Workshops:

1. “Development and Performance of a Personal Electrostatic Precipitator,” American Industrial Hygiene Association Chesapeake Section Professional Development Course, Annapolis, MD. [oral presentation], 2000.
2. “Food Safety,” Guest Lecture in Introduction to Risk Assessment, University of Maryland School of Public Health, College Park, MD, 2008, 2009.
3. “Overview of Environmental Health,” Guest Lecture in Preventive Medicine, Uniformed Services University of the Health Sciences, Bethesda, MD, 2012.
4. “Indoor Air Quality,” Guest Lecturer in Assessment and Control of Environmental Hazards, George Washington University School of Public Health, Washington, DC, 2012.
5. “Career Roundtable,” The Science of Team Science, 8th Annual National Cancer Institute Division of Cancer Epidemiology and Genetics Fellows’ Training Symposium, National Institutes of Health, Bethesda, MD, 2016.

6. “Toxicity and Carcinogenicity of Chemicals Associated with Unconventional Oil and Gas Development.” The Endocrine Disruption Exchange. Internet-based webinar, 2016.
7. “Flame Retardants and Thyroid Cancer: Is There a Link?” American Cancer Society Capital Region of New York, 2016.
8. “Public Health Impacts of Unconventional Natural Gas Development.” Ohio Environmental Council. Barnesville, OH, 2016.
9. “Assessing the potential link between chemical exposures from unconventional oil and gas development and risk of childhood leukemia.” Symposium on Exposure Science and 21st Century Oil and Gas Development. International Society for Exposure Science Annual Conference. Utrecht, the Netherlands, 2016.
10. “Evaluating Exposures to Unconventional Oil & Gas Development: A Case Study in Ohio.” University of North Carolina at Chapel Hill Center for Environmental Health and Susceptibility. Chapel Hill, NC, 2017.
11. “Advancing Understanding of Exposures and Health Impact of Unconventional Oil and Gas Development.” Academic Symposium on the Health Impacts of the Fracking Industry. Pennsylvania State University Medical Center, Hershey, PA, 2017.
12. “Community Exposures and Health Impacts of Unconventional Oil and Gas Development.” National Cancer Institute. Division of Cancer Epidemiology and Genetics. Rockville, MD, 2017.
13. “Community Environmental Health Impacts of Shale Gas Activity.” Columbia NIEHS Center of Environmental Health. New York, NY, 2017.
14. “Exposures and Health Impacts of Unconventional Oil & Gas Development.” Health Effects Institute. Boston, MA, 2018.
15. “Public Health Issues Related to Shale Gas Development: From Exposure to Epidemiology.” Shale Network Workshop. State College, PA, 2018.
16. “The Role of Surrogate Exposure Measures in Environmental Exposure Assessment.” Keynote speaker, 9th International Conference on the Science of Exposure Assessment. Manchester, England, 2018.
17. “Human Health and Water Quality Impacts of Unconventional Oil and Gas Development,” Community Impacts of Oil and Gas Development, American Association for the Advancement of Science (AAAS) SciLine Workshop Penn State University, State College, PA, 2019.
18. “Environmental Risk Factors for Cancer: Exposure to PBDE Flame Retardants & Thyroid Cancer Risk in CT Women,” CT Cancer Partnership Annual Meeting, Meriden, CT, 2019.
19. “Environmental Risk Factors for Childhood Cancer,” Presentation to Connecticut Lions Club Leadership, New Haven CT, 2019.
20. “Drinking Water Quality and Unconventional Oil and Gas Development in the Appalachian Basin,” Shale and Public Health Conference, Pittsburgh, PA, 2019.
21. “Drinking Water Vulnerability and Neonatal Health Outcomes in Relation to Oil and Gas Production in the Appalachian Basin,” Society of Birth Defects Research Invited Speaker, Annual Meeting Hot Topic Symposium: Assessing Reproductive Risks from Fracking and Mountaintop Mining, 2021.
22. Society of Epidemiologic Research Annual Meeting, Session Chair, Implementing Geolocation-Based Exposure Assessments. 2021.
23. “Fossil Fuels: Exposure Assessment and Related Adverse Health Outcomes.” International Society for Environmental Epidemiology, Session Chair, 2021.
24. “Perspectives on Exposure Assessment for Epidemiologic Studies. Shale and Public Health Conference, League of Women Voters, Pittsburgh, PA, November 2021.
25. “Assessing Exposures to Emerging Environmental Chemicals.” American College of Sports Medicine Annual Meeting. June 2022.
26. “Exposures and Childhood Leukemia Risk in Relation to Unconventional Oil and Gas Development (UOGD)” Childhood Cancer and Leukaemia International Consortium Annual Meeting Barcelona, Spain, 2022.
27. “Assessing Emerging Environmental Exposures & Childhood Cancer Risks” Utrecht University Institute for Risk Assessment Sciences. Utrecht, the Netherlands, 2022.
28. “Ten Years of Unconventional Resource Development: Lessons Learned and Future Directions” Plenary Panel Shale Network Workshop Agenda State College, PA, 2022
29. “Ten Years of Research – What Have We Learned?” Shale and Public Health. Pittsburgh, PA November 15, 2022.

30. “Ten Years of UOG Research – What Have We Learned?” Physicians for Social Responsibility Meeting on Shale and Public Health. Hershey, PA December 2022
31. “Environmental exposures and thyroid cancer risk: new epidemiologic findings.” American Thyroid Association Annual Meeting. Washington, DC. September 2023
32. “Environmental Exposures and Cancer: The Case for Hydraulic Fracturing and Hormone Disruptors.” U.S. Environmental Protection Agency Regional Science Council. Boston, MA. September 2024.
33. “Environmental Exposures and Pediatric Cancer: The Case for Hydraulic Fracturing and Hormone Disruptors” Mount Sinai Department of Environmental Medicine and Climate Science. January 2025.
34. “Empowering People with Information on LA Wildfire Toxics and Solutions.” Yale Club of Los Angeles. Yale Women. March 2025.
35. “Oil and Gas-Related Health Impacts in Pediatric Populations.” Polluting Our Future: How Living Near Oil and Gas Risks the Health of Developing Babies. Clean Air Council and Environmental Health Project Webinar. April 2025
36. “Environmental Exposures and Pediatric Cancer: The Case for Hydraulic Fracturing and Hormone Disruptors” University of Illinois, Illinois Sustainable Technology Center. April 2025.
37. “What are the Health and Climate Costs and Benefits of Natural Gas Production?” Penn State Climate Solutions Symposium. May 2025.
38. “Environmental Exposures and Pediatric Cancer: The Case for Hydraulic Fracturing and Hormone Disruptors” National Institute of Environmental Health Sciences. October 2025.
39. “Oil and Gas Development and Pediatric Cancers: The Latest Evidence” Pediatric Environmental Health Specialty Units Seminar. October 2025.

Invited Testimony:

1. 2023 United State Senate Committee on the Budget. *Who Pays the Price: The Real Cost of Fossil Fuels*” Written and oral testimony. <https://www.budget.senate.gov/hearings/who-pays-the-price-the-real-cost-of-fossil-fuels>

Peer-Reviewed Presentations & Symposia:

1. Ethics and the Assessment and Communication of Chemical Health Risks, Allegheny- Erie Regional Chapter Society of Toxicology Fall Meeting, Pittsburgh, PA. October 2001.
2. Meat and Cancer: Evaluation of Methods to Assess Dietary Exposure to Heterocyclic Amines and Polycyclic Aromatic Hydrocarbons, Center for a Livable Future Research Day: Insights Along the Path to Sustainability, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD. November 2005.
3. Diet and Cancer: Evaluation of Methods to Assess Dietary Exposure to Heterocyclic Amines and Polycyclic Aromatic Hydrocarbons, International Society for Exposure Analysis Annual Conference, Durham, NC. October 2007.
4. Comparison of Methods to Assess Dietary Exposure to Polycyclic Aromatic Hydrocarbons, International Society for Environmental Epidemiology and International Society of Exposure Analysis Joint Conference, Pasadena, CA. October 2008.
5. Comparison of Wipe Materials and Wetting Agents for Pesticide Residue Collection (Part One): Study Design and Data Analysis. International Society for Exposure Science Annual Conference, Minneapolis, MN. November 2009.
6. Determinants of Dioxins and Furans in House Dust Samples from Four Areas of the United States. International Society for Exposure Science Annual Conference, Baltimore, MD. October 2011.
7. A Multi-day Environmental Study of PAH Exposure in a High-risk Region for Esophageal Cancer. International Society for Exposure Science Annual Conference, Baltimore, MD. October 2011.
8. Temporal Variability of Pesticide Concentrations in Homes and Implications for Exposure Misclassification in Cancer Epidemiology. International Society for Environmental Epidemiology Annual Conference. Columbia, SC. August 2012.

9. Temporal Variability of Pesticide Concentrations in Homes and Implications for Exposure Misclassification in Cancer Epidemiology. International Society for Exposure Science Annual Conference. Seattle, WA. October 2012.
10. Residential Levels of Polycyclic Aromatic Hydrocarbons and Childhood Leukemia International Society for Exposure Science and Environmental Epidemiology Joint Annual Conference. Basel, Switzerland. August 2013.
11. Comparison of Self-Reported Pest Treatments and Insecticide Concentrations in Carpet Dust in the Northern California Childhood Leukemia Study, International Society for Exposure Science and Environmental Epidemiology Annual Conference. Seattle, WA. August 2014.
12. Proximity to industrial facilities linked to increased levels of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans in carpet dust samples from four areas of the United States. International Society for Exposure Science Annual Conference. Cincinnati, OH. October 2014.
13. Non-occupational pesticide exposure pathways for agricultural women. International Society for Exposure Science Annual Conference. Cincinnati, OH. October 2014.
14. Using meta-regression analysis to quantify contributors to environmental exposures: examples for lead and pesticides. International Society for Exposure Science Annual Conference. Cincinnati, OH. October 2015.
15. An algorithm for quantitatively estimating non-occupational pesticide exposure intensity for spouses in the Agricultural Health Study. International Society for Environmental Epidemiology. Rome, Italy. September 2016.
16. An algorithm for quantitatively estimating non-occupational pesticide exposure intensity for spouses in the Agricultural Health Study. International Society for Exposure Science Annual Conference. Utrecht, the Netherlands. October 2016.
17. Exposure to Organophosphate Flame Retardants and Thyroid Cancer Risk in Women. International Society for Environmental Epidemiology Annual Conference. Sydney, Australia, August 2017.
18. Sociodemographic Predictors of Hydraulic Fracturing Wastewater Wells: Environmental Inequity in Ohio. International Society for Exposure Science Annual Conference. Durham, NC. October 2017.
19. Exposure to Organophosphate Flame Retardants and Thyroid Cancer Risk in Women. International Society for Exposure Science. Durham, NC. October 2017.
20. Exposure to Organophosphate Flame Retardants and Thyroid Cancer Risk in Women. American Society of Preventive Oncology. New York, NY. March 2018 [received honorable mention in poster competition].
21. Environmental Monitoring for Unconventional Oil and Gas Development. International Society for Exposure Science and International Society for Environmental Epidemiology Joint Conference, Ottawa, Canada. August 2018.
22. Integration of Exposure Science and Epidemiology in Environmental Research: Challenges and Strengths in Using Meta-analyses to Quantify Non-Occupational Pesticide Exposure Intensity. International Society for Exposure Science and International Society for Environmental Epidemiology Joint Conference, Ottawa, Canada. August 2018.
23. Exposure to Polybrominated Diphenyl Ethers and Risk of Thyroid Cancer in Women: Single and Multi-Pollutant Approaches. International Society for Environmental Epidemiology, Utrecht, Netherlands. August 2019.
24. Methods for Quantifying Residential Pesticide Exposure Assessment. International Society for Environmental Epidemiology, Utrecht, Netherlands. August 2019.
25. Exposure to Polybrominated Diphenyl Ethers and Risk of Thyroid Cancer in Women: Single and Multi-Pollutant Approaches. Mount Sinai Institute for Exposomic Research NYC Exposome Symposium, New York, New York. March 2020.
26. Exposure to Polychlorinated Biphenyls and Risk of Thyroid Cancer in Women: Single and Multi-Pollutant Approaches. International Society for Environmental Epidemiology. August 2020.

27. A Public Health Assessment of Steam Crackers: Operations, Emissions, and Environmental Justice. International Society for Environmental Epidemiology. Athens, Greece. September 2022.
28. Unconventional Oil & Gas Development and Risk of Birth Defects in Ohio. International Society of Environmental Epidemiology North American Chapter Meeting. June 2023.
29. A Geospatial Analysis of Demographic Characteristics and Environmental Burdens in Communities Near Superfund Sites on Long Island, New York. International Society of Environmental Epidemiology North American Chapter Meeting. June 2023.
30. A Geospatial Analysis of Demographic Characteristics and Environmental Burdens in Communities Near Superfund Sites on Long Island, New York. International Society of Exposure Science. August 2023.
31. Residential Proximity to Unconventional Oil and Gas Development (UOGD) Associated with Some Birth defects. International Society of Exposure Science. Chicago, IL. August 2023.
32. Environmental Exposures and Pediatric Thyroid Cancer: Air Pollution and Artificial Light at Night. American Thyroid Association Annual Meeting. Washington, DC. September 2023.
33. Environmental Exposures and Pediatric Thyroid Cancer: Air Pollution and Artificial Light at Night. International Society of Environmental Epidemiology. Santiago, Chile. August 2024.
34. Evaluating 1,4-Dioxane Exposure, Metabolomics, and Health in Long Island, New York: A Pilot Study. International Society for Exposure Science. Montreal, Canada. October 2024.
35. Evaluating 1,4-Dioxane Exposure in Long Island, New York: Comparison of Environmental, Biological, and Survey-Based Measures. International Society for Exposure Science/ International Society for Environmental Epidemiology Joint Meeting. Atlanta, Georgia. August 2025.
36. Metrics of Rurality and Urbanicity in US-Based Epidemiologic Studies of Ambient Temperature and Health: A Scoping Review. International Society for Exposure Science/ International Society for Environmental Epidemiology Joint Meeting. Atlanta, Georgia. August 2025.
37. Development of a Novel Environmental Exposure Study Reporting Guideline. International Society for Exposure Science/ International Society for Environmental Epidemiology Joint Meeting. Atlanta, Georgia. August 2025.

Invited Guest Lectures:

1. Environmental Health & Justice of Unconventional Oil and Gas (UOG) Development. Columbia University New York, New York. November 2023; October 2024; October 2025
2. Environmental Exposure Assessment: Example from Oil and Gas Development. Appalachian State University. Boone, North Carolina. November 2023

Conference & Symposia Planning:

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| 2010, 2011,
2013, 2014,
2016, 2017,
2023 | Technical Organizing Committee, International Society for Exposure Science Meeting |
| 2019, 2021,
2025 | Member of Technical Advisory Committee, Shale and Public Health Conference, League of Women Voters, Pittsburgh, PA. |
| 2020 | Chair of Technical Advisory Committee, Shale and Public Health Conference, League of Women Voters, Pittsburgh, PA |
| 2021 | Planning Committee, National Academies of Sciences, The Role of Companion Animals as Sentinels for Predicting Environmental Exposure Effects on Aging and Cancer Susceptibility in Humans: A Workshop |
| 2022 | Meeting Co-Chair, Advancing the Science for Drinking Water Chemical Exposure Assessment and Health Research, International Workshop, ISGlobal, Barcelona, Spain |
| 2023 | Chair, Symposia on Rethinking Drinking Water Safety: Estimating Exposures to Unregulated Chemicals and Chemicals Below Regulatory Limits, International Society for Exposure Science, Chicago, USA |

- 2023 Chair, Facilitated Poster Session on Oil and Gas Development: Exposure, Health, and Justice, International Society for Exposure Science, Chicago, USA
- 2023 Meeting Co-Chair, Advancing the Science on Environment, Climate and Cancer: Challenges and Future Research, Severo Ochoa Online Workshop, ISGlobal, Barcelona, Spain

Professional Service:

Peer Reviews/Grant Study Sections

- 2011 Abstract reviewer, National Cancer Institute Division of Cancer Epidemiology and Genetics Fellows Award for Research Excellence
- 2016, 2017 Abstract reviewer, International Society for Exposure Science Annual Meeting
- 2016 Reviewer, International Society for Exposure Science Travel Award
- 2018 NIH Study Section Early Career Reviewer, Systemic Injury by Environmental Exposure
- 2018 Reviewer for the Health Effects Institute report “Potential Health Effects from Unconventional Oil and Gas Development: A Systematic Review of the Epidemiology Literature”
- 2021 Grant proposal reviewer, American Institute of Biological Sciences, Distinguished Researchers Program Breast Cancer
- 2021 U.S. Environmental Protection Agency Grant Proposal Reviewer
- 2021 Grant proposal reviewer, American Institute of Biological Sciences Andy Hill Cancer Research Endowment’s CARE Fund Population Health Program
- 2022 Grant proposal reviewer, Yale Cancer Center Institutional Research Scholar Grant
- 2022 NIH Study section member, NIEHS R35 Revolutionizing Innovative, Visionary Environmental Health Research (RIVER) Program
- 2023-2025 NIOSH Special Emphasis Panel member, National Institute of Occupational Safety and Health (NIOSH) Exploratory/Developmental Grants Related to the World Trade Center Health Program (R21), RFA OH 23–001; World Trade Center Health Research related to WTC Survivors (U01-No Applications with Responders Accepted), RFA OH 22–004; and Cooperative Research Agreements Related to the World Trade Center Health Program (U01), PAR 20–280
- 2023 Peer reviewer, CDC National Center for Environmental Health/Agency for Toxic Substances and Disease Registry Office of Science
- 2023 NIH grant reviewer, NIH Director’s Early Independence Awards (DP5)
- 2023 Proposal reviewer, Yale Cancer Center 2024 American Cancer Society Institutional Research Grant Pilot Awards
- 2024 NIH Special Emphasis Panel member, U24 Maintaining & Enriching Environmental Epidemiology Cohorts to Support Scientific & Workforce Diversity Review Committee
- 2024 Proposal reviewer, Yale Cancer Center Leslie H. Warner Postdoctoral Fellowship Award
- 2025 NIH Special Emphasis Panel Member, NIH Center for Scientific Review. Social and Environmental Determinants of Health.
- 2026 International Agency for Research on Cancer (IARC) Monograph Working Group. Volume 141 of the IARC Monographs on the carcinogenicity of Tris(chloropropyl)phosphate, Butyraldehyde, and Cumyl hydroperoxide. (*preliminary invitation*)

Editorial and Publishing

Editorial Boards

- 2017-2018 Editorial Board, *Journal of Exposure Science and Environmental Epidemiology*
- 2018-2023 Editorial Board, *Environment International* (Impact Factor=13.35)
- 2018-2021 Associate Editor, *Journal of Exposure Science and Environmental Epidemiology* (Impact Factor=5.563)
- 2022- Executive Editor, *Journal of Exposure Science and Environmental Epidemiology* (Impact Factor=6.371)

2022-2023	Guest Editor, Special Topic Issue, Regulated and Emerging Chemicals in Drinking Water: Exposure and Health Research, <i>Journal of Exposure Science and Environmental Epidemiology</i> (Impact Factor=6.371)
2023-2024	Associate Editor, <i>Environment International</i> (Impact Factor=13.35)

Reviewer

2010- present Ad hoc reviewer for *American Journal of Epidemiology*, *American Journal of Industrial Medicine*, *American Journal of Public Health*, *Annals of Epidemiology*, *BMC Cancer*, *BMC Public Health*, *Bulletin of Environmental Contamination and Toxicology*, *British Medical Journal*, *Cancer*, *Cancer Epidemiology*, *Biomarkers & Prevention*, *Energy Research and Social Science*, *Environmental Research Communications*, *Environment International*, *Environmental Epidemiology*, *Environmental Health Perspectives*, *Environmental Justice*, *Environmental and Public Health*, *Environmental Research*, *Environmental Research Letters*, *Environmental Science: Advances*, *Environmental Science and Pollution Research*, *Environmental Science and Technology*, *Epidemiology*, *Exposome*, *Food and Chemical Toxicology*, *Geohealth*, *Indoor Air*, *Journal of the American Medical Association (JAMA)*, *Journal of Environmental Science and Health Part A*, *Journal of Epidemiology & Community Health*, *International Journal of Cancer*, *Journal of Exposure Science and Environmental Epidemiology*, *Journal of Human and Ecological Risk Assessment*, *Journal of Occupational and Environmental Medicine*, *Molecular and Cellular Endocrinology*, *PLoS One*, *Preventive Medicine*, *Science of the Total Environment*, *Sexuality Research and Social Policy*, *Thyroid*, *Water Research*

Professional Organizations

2015-2017	Chair and Co-Founder, Diversity Committee, International Society for Exposure Science
2015-2017	Member, Publications Committee, International Society for Exposure Science
2015-2016	Search Committee for Editor-in-Chief, Journal of Exposure Science and Environmental Epidemiology, International Society for Exposure Science
2018-2020	Chair, International Society for Exposure Science Publications Committee
2023	Member, Sustainability Sub-Committee, International Society for Exposure Science
2024	Member, Community Engagement Committee, International Society for Exposure Science

Government and Academic Panels, Advisory and Oversight Committees

2001	U.S. Environmental Protection Agency Expert Panel for the Workshop on Characterizing and Presenting Chemical Exposure Assessment Results, Arlington, VA
2002-2003	U.S. Environmental Protection Agency Voluntary Children's Chemical Evaluation Program Peer Consultation Panel, Cincinnati, OH
2013	National Academy of Sciences and Institute of Medicine Workshop Panelist, Design of the National Children's Study
2016	Reviewer for Agency for Toxic Substances & Disease Registry, Centers for Disease Control and Prevention. "Interaction Profile for Selected Metallic Ions in Hydraulic Fracturing Waste Fluids: Sodium, Strontium, Barium, Iron, and Manganese."
2016	Reviewer for U.S. Environmental Protection Agency 2016 Guidelines for Human Exposure Assessment
2017	Deputy Chair for Review Committee for The Exposure Assessment Program for the National Institute of Occupational Safety and Health
2017	Reviewer for the National Academies of Sciences Report on EPA STAR: Supporting US Leadership in Environmental Research
2018-2019	Steering Committee, California Council on Science and Technology, "An Assessment of Oil and Gas Water Cycle Reporting: A Preliminary Evaluation of Data Collected Pursuant to California Senate Bill 1281"
2021	U.S. Environmental Protection Agency Peer Reviewer for Guidelines for Cumulative Risk Assessment Planning and Problem Formulation
2020-2024	National Academies of Sciences Standing Committee on Emerging Science for Environmental Health Decisions
2020 - 2022	California Geologic Energy Management Division Public Health Panel

2024 Connecticut Government Water Planning Council Advisory Group, Academic Representative
 2025 Scientific Oversight Committee (SOC), Aliso Canyon Disaster Health Research Study

Other Committee Service

2004-2005 Johns Hopkins Environmental Health Sciences Student Affairs Committee
 2011-2012 National Cancer Institute Career Development Seminar Series Committee

Yale University Service

University Committees

2014- Silliman Fellow and First-Year Advisor
 2015-2016 Silliman Freshman Advisor
 2015, 2018 Yale Pathways to Science Speaker
 2018 Reviewer, Leitner Awards for Uncommon Environmental Collaborations, Yale School of Forestry & Environmental Studies
 2021 Yale University Off-Campus Fieldwork and Research Committee during the COVID-19 Pandemic (Office of the Provost)

School of Public Health Committees

2014-2015 Yale School of Public Health Centennial Planning Committee
 2014-2016 Yale School of Public Health Diversity Committee
 2014-2020 Yale School of Public Health Stolwijk Fellowship Review Committee (Chair 2018-2020)
 2016-2022 Yale School of Public Health Education Committee
 2017-2018 Yale School of Public Health Research Advisory Committee
 2019 Search Committee, Chronic Disease Epidemiology Department (Perinatal Epidemiology)
 2021 Search Committee, Environmental Health Sciences Department (Climate Change and Health)
 2024 Chair of Search Committee, Environmental Health Sciences Department (Molecular Toxicology)
 2023-2024 Yale School of Public Health Faculty Appointments Committee
 2023 - Dean's MPH Thesis Prize Committee Member (2023-2024) and Chair (2024-2025)
 2024-2025 Diversity, Equity, Inclusion, and Belonging Committee
 2025 Yale School of Public Health PhD Dissertation Prize Committee

Selected Media Coverage:

November 15, 2015, Hydraulic Fracturing and Health Risks, Yale Cancer Center Answers Radio Show, WNPR
 January 6, 2016 Study Identifies Toxins in Fracking Fluids and Wastewater, Huffington Post.
 January 6, 2016 Yale study raises health concerns about fracking fluids, wastewater, New Haven Register
 January 26, 2016, Fracking fluids found toxic, mysterious, Yale Daily News
 May 3, 2016, Wellness Chat: The Indoor Environment, Environmental Working Group
 June 25, 2016, Yale to Study Fracking at 100 Belmont County Homes, Wheeling Intelligencer
 July 15, 2016, Yale University Studies Fracking in Barnesville, Farm and Dairy
 July 15, 2016 Yale Researchers Eye Benzene in Belmont County Air, Wheeling Intelligencer
 August 9, 2016 Residents Hear About Yale Study on Fracking, The Times Leader
 November 8, 2016, Study Underscores Dangers of Fracking, Yale Daily News
 September 1, 2017, Researchers to Launch Fracking Study, Yale Daily News
 February 9, 2018, Metabolomics and the Exposotype: Linking genes and environment to health, BMC Blog Network
 March 30, 2018, Study links shale gas boom and sexually transmitted infections, Energy News Network
 July 29, 2019, Has fracking helped, or harmed Eastern Ohio?, The Columbus Dispatch
 January 13, 2020, Shale drilling activity linked to increased sexually transmitted infections in Texas, YSPH Feature
 October 15, 2021, Fact check: Plastic water bottles left in hot cars don't release dioxins, do leach other chemicals, USA Today

April 27, 2022, These Easy-To-Clean Water Bottles Can Help You Meet Your Hydration Goals, BuzzFeed News
August 17, 2022 Children who live near fracking sites at birth face increased risk of leukemia - study, The Hill
August 17, 2022, Children living near Pa. fracking sites are at increased risk of leukemia, study finds, NPR
August 17, 2022, Children born near fracking wells more at risk for leukemia – study, The Guardian
October 19, 2022, Hair-Straightening Chemicals Linked with Higher Risk for Uterine Cancer, HuffPost
October 20, 2022, Frequent Use of Chemical Hair Straighteners May Increase Risk of Uterine Cancer- Here's What You Need to Know, SHAPE
January 9, 2023, Will California's New Oil and Gas Laws Protect People from Toxic Pollution? The Daily Climate
April 3, 2023, Higher Lithium Levels in Drinking Water May Raise Autism Risk, Yale University News
April 13, 2023, Elderly, Low-Income Residents Most Vulnerable to Groundwater Pollution from Fracking in Appalachia, MedicalXpress
April 25, 2023, Researchers Studying Link Between Likely Carcinogen, 1,4-Dioxane, Long Islander's Health, Newsday
July 20, 2023, Study Finds Radioactive Materials in Waterways Near Treatment Plants Associated with Fracking Waste, The Allegany Front
August 11, 2023, Yale Researchers Seek Participants for Study of 1,4-Dioxane in Long Island Drinking Water, Riverhead Local
August 21, 2023, Cancer-causing Chemicals May Have Caused 9 Cases of Non-Hodgkin's Lymphoma in Military Members, MDLinx
September 25, 2023 PFAS and Phenols Linked to Different Cancers in Women of Different Races, CT Public Radio
October 16, 2023, Does your CT Drinking Water Have Harmful Forever Chemicals? In This State, It Depends on Where You Live, Hartford Courant
October 24, 2023, PFAS 'Forever Chemicals' Linked to Higher Thyroid Cancer Risk, Study Finds, Medical News Today
March 6, 2024, Q&A: The critical need to address chemical contamination in drinking water, Phys.org
April 12, 2024, Does Fracking Cause Cancer?, Cancer Therapy Advisor, CancerTherapyAdvisor.com
April 30, 2024, EPA implements toughest restrictions yet on use of highly toxic chemical in paint stripper. CNN
June 4, 2024, Massive Potential Lithium Source Found in Pennsylvania, Chemical & Environmental Engineering News
June 13, 2024, Rare cancers, full-body rashes, death: did fracking make their kids sick? The Guardian
August 8, 2024, How Climate Change Can Make Pesticides Even Deadlier, Mother Jones
August 31, 2024, What is fracking and why is it a big deal in the Harris-Trump battle? The Hill
September 18, 2024, After two rejections, proposal to expand natural gas drilling near Arlington day care returns. The Arlington Report.
November 10, 2024. 'Dying of thirst' as climate-driven floods mix with oil. BBC.
November 22, 2024 How the lack of water fluoridation could impact communities across the US. Yale Daily News.
January 13, 2025 Yes, fluoride in your drinking water is a good thing. SELF.
February 11, 2025 Cancer survivor shares kitchen items she'll never use again – expert explains. Newsweek.
February 15, 2025. What are PFAS, and why are they being banned from clothing? Good Housekeeping.
April 18, 2025. Air, light pollution increase risk of thyroid cancer in children. US News & World Report.
April 24, 2025. Are you disinfecting the right surfaces? We asked experts. Today.com
July 24, 2025. Children living near oil and gas wells face higher risk of rare leukemia, studies show. The Conversation. By Lisa McKenzie and Nicole Deziel
July 29, 2025. I Left a Plastic Water Bottle in a Hot Car. Is It Safe to Drink? New York Times
July 30, 2025. Odd bedfellows: Moving with MAHA from conversation to collaboration. Your Local Epidemiologist. With Katelyn Jetelina, Megan Ranney, Elizabeth Frost, Brinda Adhikari.
August 19, 2025. What happens if you drink from a plastic water bottle left in a hot car. Washington Post.

Podcast Appearances:

April 3, 2025 Exposure. Episode 7. Tracking Toxicity: Fracking's Impact with Dr. Nicole Deziel.

<https://www.exposurestudios.org/>

June 27, 2025 Exposure. Episode 9. Nicole Deziel II. <https://www.exposurestudios.org/>

Bibliography:

No. Published or in Press Articles: 119; Citations: 3600; h-Index: 38 (GoogleScholar September 2025)

* Denotes mentored student or scholar. * Denotes co-first or co-senior authorship.

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<https://www.ncbi.nlm.nih.gov/myncbi/nicole%20cardello.deziel.1/bibliography/public/>

Peer-Reviewed Original Research:

1. **Cardello N**, Volckens J, Tolocka MP, Wiener RW, Buckley TJ. Technical Note: Performance of a personal electrostatic precipitator particle sampler. *Aerosol Science and Technology*. 2002;36(2):162-5. doi: 10.1080/027868202753504029.
2. Geer LA, **Cardello N**, Dellarco MJ, Leighton TJ, Zendzian RP, Roberts J, Buckley TJ. Comparative analysis of passive dosimetry and biomonitoring for assessing chlorpyrifos exposure in pesticide workers. *Ann Occup Hyg*. 2004 Nov;48(8):683-95. doi: 10.1093/annhyg/meh056. Epub 2004 Oct 29. PMID: 15516344.
3. **Deziel NC**, Strickland PT, Platz EA, Abubaker S, Buckley TJ. Comparison of standard methods for assessing dietary intake of benzo[a]pyrene. *Cancer Epidemiol Biomarkers Prev*. 2011 May;20(5):962-70. doi: 10.1158/1055-9965.EPI-10-1344. Epub 2011 Mar 23. PMID: 21430297; PMCID: PMC4618457.
4. **Deziel NC**, Viet SM, Rogers JW, Camann DE, Marker DA, Heikkinen MSA, Yau AY, Stout DM 2nd, Dellarco M. Comparison of wipe materials and wetting agents for pesticide residue collection from hard surfaces. *Sci Total Environ*. 2011 Sep 15;409(20):4442-8. doi: 10.1016/j.scitotenv.2011.07.002. Epub 2011 Aug 3. PMID: 21816452; PMCID: PMC3178880.
5. **Deziel NC**, Buckley TJ, Sinha R, Abubaker S, Platz EA, Strickland PT. Comparability and repeatability of methods for estimating the dietary intake of the heterocyclic amine contaminant 2-amino-1-methyl-6-phenylimidazo[4,5b]pyridine (PhIP). *Food Addit Contam Part A Chem Anal Control Expo Risk Assess*. 2012 Aug;29(8):1202-11. doi: 10.1080/19440049.2012.682657. Epub 2012 May 9. PMID: 22571725; PMCID: PMC3412362.
6. **Deziel NC**, Nuckols JR, Colt JS, De Roos AJ, Pronk A, Gourley C, Severson RK, Cozen W, Cerhan JR, Hartge P, Ward MH. Determinants of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans in house dust samples from four areas of the United States. *Sci Total Environ*. 2012 Sep 1;433:516-22. doi: 10.1016/j.scitotenv.2012.06.098. Epub 2012 Jul 24. PMID: 22832089; PMCID: PMC3431600.
7. **Deziel NC**, Wei WQ, Abnet CC, Qiao YL, Sunderland D, Ren JS, Schantz MM, Zhang Y, Strickland PT, Abubaker S, Dawsey SM, Friesen MC, Roth MJ. A multi-day environmental study of polycyclic aromatic hydrocarbon exposure in a high-risk region for esophageal cancer in China. *J Expo Sci Environ Epidemiol*. 2013 Jan-Feb;23(1):52-9. doi: 10.1038/jes.2012.73. Epub 2012 Jul 18. PMID: 22805987; PMCID: PMC3504638.
8. **Deziel NC**, Ward MH, Bell EM, Whitehead TP, Gunier RB, Friesen MC, Nuckols JR. Temporal variability of pesticide concentrations in homes and implications for attenuation bias in epidemiologic studies. *Environ Health Perspect*. 2013 May;121(5):565-71. doi: 10.1289/ehp.1205811. Epub 2013 Mar 5. PMID: 23462689; PMCID: PMC3672902.
9. DellaValle CT, Wheeler DC, **Deziel NC**, De Roos AJ, Cerhan JR, Cozen W, Severson RK, Flory AR, Locke SJ, Colt JS, Hartge P, Ward MH. Environmental determinants of polychlorinated biphenyl concentrations in residential carpet dust. *Environ Sci Technol*. 2013 Sep 17;47(18):10405-14. doi: 10.1021/es401447w. Epub 2013 Aug 27. PMID: 23952055; PMCID: PMC4076890.
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11. Whitehead TP, Metayer C, Ward MH, Colt JS, Gunier RB, **Deziel NC**, Rappaport SM, Buffler PA. Persistent organic pollutants in dust from older homes: Learning from lead. *Am J Public Health*. 2014

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