

STEPHANIE M. ENGEL, PhD

BUSINESS

Department of Epidemiology, CB#7435
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EDUCATION

- 2003 Doctor of Philosophy (Epidemiology)
The University of North Carolina, Chapel Hill, NC
- 2000 Master of Science in Public Health (Epidemiology)
The University of North Carolina, Chapel Hill, NC
- 1997 Bachelor of Arts (Psychology)
The University of California, San Diego, CA
- 1997 Bachelor of Science (Animal Physiology and Neuroscience)
The University of California, San Diego, CA

OTHER TRAINING & FELLOWSHIPS

- 2004 Postdoctoral Research Associate, Mount Sinai School of Medicine, Department of
Community and Preventive Medicine, New York, NY
- 2004 UW-FHCRC SNP Variation Discovery Workshop, Seattle, WA
- 2001 – 2003 Pre-doctoral Fellow, HIV/STD and Infectious Disease, National Institutes of Health.
Department of Infectious Diseases, School of Medicine, University of North Carolina at
Chapel Hill
- 2001 Cancer Epidemiology Research Training Award (CERTA) pre-doctoral fellow, Viral
Epidemiology Branch of the Division of Cancer Epidemiology and Genetics, National
Cancer Institute

PROFESSIONAL EXPERIENCE & CENTER AFFILIATIONS

- 2022 Associate Director for Population Sciences, Biomedical Research Imaging Center
- 2021- Member, Biomedical Research Imaging Center
- 2021 Director, UNC Center for Early Life Exposures and Neurotoxicity (UNC CLEAN)
- 2018- Member, Intellectual and Developmental Disabilities Research Center
- 2018 Deputy Director and Director of the Pilot Project Program Core, UNC Center for
Environmental Health and Susceptibility (2 P30 ES010126-15A1)
- 2018-2021 Associate Chair, Department of Epidemiology, University of North Carolina, Chapel Hill,

NC
 2018 Professor, Department of Epidemiology, University of North Carolina, Chapel Hill, NC
 2015- Co-Director, Biostatistics for Environmental Health Research T32 (NIEHS)
 2011- Member, Center for Environmental Health and Susceptibility
 2011 Associate Professor, Department of Epidemiology, University of North Carolina, Chapel Hill, NC
2004 – 2011 Associate Professor (2009-2011), Assistant Professor (2005-2009), Instructor (2004-2005), Department of Preventive Medicine, Mount Sinai School of Medicine, New York, NY

HONORS

2021 NIEHS Grantee/Researcher Papers of the Year 2021; Choi et al. “Prenatal phthalate exposure and executive function in preschool children.”
<https://factor.niehs.nih.gov/2022/1/papers/papers-of-the-year/index.htm>
 2021 NIEHS Extramural paper of the month, May 2021, Choi et al. “Prenatal phthalate exposure and executive function in preschool children.”
 2017 John E. Larsh Jr. Excellence in Mentoring Award, Gillings School of Global Public Health, University of North Carolina at Chapel Hill
 2014 American Journal of Epidemiology “Article of the Year” 2014 “Neonatal genome-wide methylation patterns in relation to birthweight in the Norwegian Mother and Child Cohort.”
 2012 Environmental Health Perspectives paper of the year 2012 “Prenatal Exposure to Organophosphates, Paraoxonase 1, and Cognitive Development in Childhood”.
 2004 Excellence in Public Health Research Book Award, Order of Omega
 2003 Mulherin SA et al. AIDS 2003 (see publications) selected as one of the six best papers for 2003 in the area of epidemiology/social research published by AIDS. Article featured in AIDS 2003: A Year in Review, 17 (Supplement 5)
 2002 Scientific Impact Award for “Effects of *CCR5-Δ32* and *CCR2-64I* alleles on HIV-1 disease progression: The protection varies with duration of infection,” NCI, Division of Cancer Epidemiology and Genetics
 2002 Society for Epidemiological Research (SER) Student Workshop

BIBLIOGRAPHY

** Denotes student/postdoc work for which SM Engel was primary mentor*

(A) ARTICLES IN PEER-REVIEWED JOURNALS

1. *Rosen E, Stevens D, McNell E, Wood M, Engel SM, Keil A, Calafat A, Cook J, Sinkovskaya E, Przybylska A, Saade G, Abuhamad A, Ferguson KK. “Longitudinal associations between phthalates and replacements with novel in vivo measures of placental health”. Accepted, Human Reproduction
2. Hu W, Hsiao YC, Morrison-Welch N, Lamberti S, Liu CW, Lin W, Engel SM, Lu K, Zylka MJ. “Co-detection of azoxystrobin and thiabendazole fungicides in mold and mildew resistant wallboards and in children.” Heliyon 2024, 10(6):e27980. PMID 38509915

3. Zhang Y, Delahanty MT, Daniels JL, Engel SM, Marshall S, O'Shea TM, Garica T, Schieve LA, Bradley C. "Malpresentation and Autism Spectrum Disorder in The Study to Explore Early Development" Accepted, Paediatric and Perinatal Epidemiology.
4. Lu Y, Pike JR, Hoogeveen R, Keenan W, Raffield L, Selvin E, Avery C, Engel SM, Mielke MM, Garcia T, Heiss G, Palta P. "Nonalcoholic Fatty Liver Disease and Longitudinal Change in Imaging and Plasma Biomarkers of Alzheimer Disease and Vascular Pathology". Neurology, 2024 in press.
5. Welch BM, Keil AP, Buckley JP, Engel SM, James-Todd T, Zota AR, Alshawabkeh AN, Barrett ES, Bloom MS, Bush NR, Cordero JF, Dabelea D, Eskenazi B, Lanphear BP, Padmanabhan V, Sathyanarayana S, Swan SH, Aalborg J, Baird DD, Binder AM, Bradman A, Braun JM, Calafat AM, Cantonwine DE, Christenbury KE, Factor-Litvak P, Harley KG, Hauser R, Herbstman JB, Hertz-Picciotto I, Holland N, Jukic AMZ, McElrath TF, Meeker JD, Messerlian C, Michels KB, Newman RB, Nguyen RHN, O'Brien KM, Rauh VA, Redmon B, Rich DQ, Rosen EM, Schmidt RJ, Sparks AE, Starling AP, Wang C, Watkins DJ, Weinberg CR, Weinberger B, Wenzel AG, Wilcox AJ, Yolton K, Zhang Y, Ferguson KK.. "Racial disparities in phthalate exposure and preterm birth: A pooled study of 16 US cohorts." Environ Health Perspect. 2023 Dec;131(12):127015. doi: 10.1289/EHP12831. Epub 2023 Dec 20. PMID: 38117586
6. Anderson C, Baggett C, Engel SM, Getahun D, et al. "Risk of adverse birth outcomes after adolescent and young adult cancer". JNCI Cancer Spectr. 2024 Jan 4;8(1):pkad106. doi: 10.1093/jncics/pkad106. PMID: 38127994
7. Lu Y, Wilcock D, Pike RJ, Hoogeveen RC, Walker KA, Raffield LM, Selvin E, Avery C, Engel SM, Mielke MM, Garcia T, Palta P. "Liver integrity and the risk of Alzheimer's disease and related dementias". Alzheimers Dement. 2024 Mar;20(3):1913-1922. doi: 10.1002/alz.13601. Epub 2023 Dec 28. PMID: 38153336
8. *Rosen E, Stevens D, Ramos A, McNell E, Wood M, Engel SM, Keil A, Calafat A, et al. "Personal care product use patterns in association with phthalate and replacement biomarkers across pregnancy". J Expo Sci Environ Epidemiol. 2024 Jan 4. doi: 10.1038/s41370-023-00627-w. Online ahead of print. PMID: 38177334
9. Nguyen P, Engel SM, Herring AH. Power Analysis of Exposure Mixture Studies via Monte Carlo Simulations. Statistics in Biosciences, in press.
10. Weyde KVF, Winterton A, Surén P, Andersen GL, Vik T, Biele G, Knutsen HK, Thomsen C, Meltzer HM, Skogheim TS, Engel SM, Aase H, Villanger GD. Association between gestational levels of toxic metals and essential elements and cerebral palsy in children. Front Neurol. 2023;14:1124943.
11. Tan KR, Meernik C, Anderson C, Deal AM, Engel S, Getahun D, Kent EE, Kirchoff AC, Kwan ML, Mitra S, Park EM, Smitherman A, Chao CR, Kushi L, Nichols HB. Caring for Children in Relation to Financial Hardship, Advance Care Planning, and Genetic Testing Among Adolescent and Young Adults with Cancer. J Adolesc Young Adult Oncol . 2024 Feb;13(1):147-155.

12. *Rosen EM, Stevens DR, McNell EE, Wood ME, Engel SM, Keil AP, Calafat AM, Botelho JC, Sinkovskaya E, Przybylska A, Saade G, Abuhamad A, Ferguson KK. Variability and Longitudinal Trajectories of Phthalate and Replacement Biomarkers across Pregnancy in the Human Placenta and Phthalates Study. *Environ Sci Technol*. 2023;57(35):13036-13046.
13. *Ramos AM, Herring AH, Villanger GD, Thomsen C, Sakhi AK, Cequier E, Aase H, Engel SM. The association of prenatal phthalates, organophosphorous pesticides, and organophosphate esters with early child language ability in Norway. *Environ Res*. 2023;225:115508.
14. Meernik C, Poole C, Engel SM, Rauh-Hain JA, Luke B, Nichols HB. Outcomes after assisted reproductive technology in women with cancer: a systematic review and meta-analysis. *Hum Reprod*. 2023;38(1):30-45.
15. Meernik C, Engel SM, Wardell A, Baggett CD, Gupta P, Rodriguez-Ormaza N, Luke B, Baker VL, Wantman E, Rauh-Hain JA, Mersereau JE, Olshan AF, Smitherman AB, Cai J, Nichols HB. Disparities in fertility preservation use among adolescent and young adult women with cancer. *J Cancer Surviv*. 2023;17(5):1435-1444.
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17. Jin B, Dunson DB, Rager JE, Reif DM, Engel SM, Herring AH. Bayesian matrix completion for hypothesis testing. *J R Stat Soc Ser C Appl Stat*. 2023;72(2):254-270.
18. *Hall AM, Ramos AM, Drover SS, Choi G, Keil AP, Richardson DB, Martin CL, Olshan AF, Villanger GD, Reichborn-Kjennerud T, Zeiner P, Øvergaard KR, Sakhi AK, Thomsen C, Aase H, Engel SM. Gestational organophosphate ester exposure and preschool attention-deficit/hyperactivity disorder in the Norwegian Mother, Father, and Child cohort study. *Int J Hyg Environ Health*. 2023;248:114078.
19. *Hall AM, Keil AP, Choi G, Ramos AM, Richardson DB, Olshan AF, Martin CL, Villanger GD, Reichborn-Kjennerud T, Zeiner P, Øvergaard KR, Sakhi AK, Thomsen C, Aase H, Engel SM. Prenatal organophosphate ester exposure and executive function in Norwegian preschoolers. *Environ Epidemiol*. 2023;7(3):e251.
20. Ghassabian A, van den Dries M, Trasande L, Lamballais S, Spaan S, Martinez-Moral MP, Kannan K, Jaddoe VWV, Engel SM, Pronk A, White T, Tiemeier H, Guxens M. Prenatal exposure to common plasticizers: a longitudinal study on phthalates, brain volumetric measures, and IQ in youth." *Mol Psychiatry*. 2023 Nov;28(11):4814-4822. doi: 10.1038/s41380-023-02225-6. Epub 2023 Aug 29. PMID: 37644173
21. Engel SM, Villanger GD, Herring A, Nethery RC, Drover SSM, Zoeller RT, Meltzer HM, Zeiner P, Knudsen GP, Reichborn-Kjennerud T, Longnecker MP, Aase H. Gestational thyroid hormone concentrations and risk of attention-deficit hyperactivity disorder in the Norwegian Mother, Father and Child Cohort Study. *Paediatr Perinat Epidemiol*. 2023;37(3):218-228.

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23. Welch BM, Keil AP, Buckley JP, Calafat AM, Christenbury KE, Engel SM, O'Brien KM, Rosen EM, James-Todd T, Zota AR, Ferguson KK, Alshawabkeh AN, Cordero JF, Meeker JD, Barrett ES, Bush NR, Nguyen RHN, Sathyanarayana S, Swan SH, Cantonwine DE, McElrath TF, Aalborg J, Dabelea D, Starling AP, Hauser R, Messerlian C, Zhang Y, Bradman A, Eskenazi B, Harley KG, Holland N, Bloom MS, Newman RB, Wenzel AG, Braun JM, Lanphear BP, Yolton K, Factor-Litvak P, Herbstman JB, Rauh VA, Drobnis EZ, Sparks AE, Redmon JB, Wang C, Binder AM, Michels KB, Baird DD, Jukic AMZ, Weinberg CR, Wilcox AJ, Rich DQ, Weinberger B, Padmanabhan V, Watkins DJ, Hertz-Picciotto I, Schmidt RJ. Associations Between Prenatal Urinary Biomarkers of Phthalate Exposure and Preterm Birth: A Pooled Study of 16 US Cohorts. *JAMA Pediatr*. 2022;176(9):895-905.
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40. Gondalia R, Baldassari A, Holliday KM, Justice AE, Stewart JD, Liao D, Yanosky JD, Engel SM, Sheps D, Jordahl KM, Bhatti P, Horvath S, Assimes TL, Demerath EW, Guan W, Fornage M, Bressler J, North KE, Conneely KN, Li Y, Hou L, Baccarelli AA, Whitsel EA. Epigenetically mediated electrocardiographic manifestations of sub-chronic exposures to ambient particulate matter air pollution in the Women's Health Initiative and Atherosclerosis Risk in Communities Study. *Environ Res.* 2021;198:111211.

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43. *Choi G, Keil AP, Villanger GD, Richardson DB, Daniels JL, Hoffman K, Sakhi AK, Thomsen C, Herring AH, Drover SSM, Nethery R, Aase H, Engel SM. Pregnancy exposure to common-detect organophosphate esters and phthalates and maternal thyroid function. *Sci Total Environ*. 2021;782:146709.
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hypertension is associated with preeclampsia in European and Central Asian women. *Nat Commun.* 2020;11(1):5976.

50. Skogheim TS, Villanger GD, Weyde KVF, Engel SM, Surén P, Øie MG, Skogan AH, Biele G, Zeiner P, Øvergaard KR, Haug LS, Sabaredzovic A, Aase H. Prenatal exposure to perfluoroalkyl substances and associations with symptoms of attention-deficit/hyperactivity disorder and cognitive functions in preschool children. *Int J Hyg Environ Health.* 2020;223(1):80-92.
51. Gondalia R, Holliday KM, Baldassari A, Justice AE, Stewart JD, Liao D, Yanosky JD, Engel SM, Jordahl KM, Bhatti P, Horvath S, Assimes TL, Pankow JS, Demerath EW, Guan W, Fornage M, Bressler J, North KE, Conneely KN, Li Y, Hou L, Baccarelli AA, Whitsel EA. Leukocyte Traits and Exposure to Ambient Particulate Matter Air Pollution in the Women's Health Initiative and Atherosclerosis Risk in Communities Study. *Environ Health Perspect.* 2020;128(1):17004.
52. Etzel TM, Engel SM, Quirós-Alcalá L, Chen J, Barr DB, Wolff MS, Buckley JP. Prenatal maternal organophosphorus pesticide exposures, paraoxonase 1, and childhood adiposity in the Mount Sinai Children's Environmental Health Study. *Environ Int.* 2020;142:105858.
53. Cordero C, Schieve LA, Croen LA, Engel SM, Maria Siega-Riz A, Herring AH, Vladutiu CJ, Seashore CJ, Daniels JL. Neonatal jaundice in association with autism spectrum disorder and developmental disorder. *J Perinatol.* 2020;40(2):219-225.
54. Mazul AL, Weinberg CR, Engel SM, Siega-Riz AM, Zou F, Carrier KS, Basta PV, Vaksman Z, Maris JM, Diskin SJ, Maxen C, Naranjo A, Olshan AF. Neuroblastoma in relation to joint effects of vitamin A and maternal and offspring variants in vitamin A-related genes: A report of the Children's Oncology Group. *Cancer Epidemiol.* 2019;61:165-171.
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Neonatal Thyroid Function and Attention Deficit Hyperactivity Disorder: A Systematic Review. *Epidemiology*. 2019;30(1):130-144.

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(B) EDITORIALS/BOOK CHAPTERS/LETTERS

1. Berkowitz GS, Engel SM, "Incidence and sociodemographic characteristics of preterm birth" UpToDate, Rose, BD (Ed), UpToDate, Wellesley, MA 2005.
2. Jackson MM; Mulherin SA; Rickman LS. "Dumpster Diving in Sharps Containers: What's Really Inside?" *Infection Control and Hospital Epidemiology* 1996, (17)9: 570-1. *Letter to the Editor*.
3. Hertz-Picciotto I; Engel SM. (2021) "Environmental Epidemiology". In T. Lash, T.J. VanderWeele, S. Haneuse, K.J. Rothman, *Modern Epidemiology*, (4th ed.). Lippincott-Raven, Philadelphia PA.

TEACHING RECORD

(A) CLASSROOM INSTRUCTION

1. **Lead Instructor, EPID 851 "Introduction to Pediatric and Perinatal Epidemiology"**. Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill (3 credit hours).
 - a. Fall 2012 (25 students)
 - b. Fall 2015 (12 students)
2. **Lead Instructor, Epid 742 "Integrating Biomarkers in Population-based Research"**. Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill (2 credit hours).
 - a. Fall 2012 (15 students)
 - b. Spring 2015 (8 students)
 - c. Spring 2017 (5 students)
 - d. Spring 2019 (12 students)

3. **Lead Instructor, EPID 853 “Advanced Pediatric and Perinatal Epidemiology”**. Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill (2 credit hours).
 - a. Spring 2012 (10 students)
 - b. Spring 2018 (11 students)
 - c. Spring 2020 (13 students)
 - d. Spring 2022 (14 students)
 - e. Spring 2024 (6 students)

4. **Co-Instructor, EPID 725 “Epidemiologic Research Planning”** Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill. (1 credit hour).
 - a. Fall 2019 (45 students)

5. **Co-Instructor, EPID 726 “Epidemiologic Research Methods”**. Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill. (3 credit hours)
 - a. Spring 2020 (45 students)
 - b. Fall 2020 (40 students)

6. **Guest Lecturer, EPID 851 “Introduction to Perinatal and Pediatric Epidemiology”**. Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill (3 credit hours).
 - a. Fall 2013-2014 “Hypertensive Disease of Pregnancy”
 - b. Fall 2016-2023 “Hypertensive Disease of Pregnancy”

7. **Guest Lecturer, EPID 716 “Epidemiologic Data Analysis”**. Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill. (3 credit hours)
 - a. Spring 2020-Spring 2022 “Epidemiology of Preterm Birth”

8. **Guest Lecturer, “Environmental Epidemiology”**. Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill. (3 credit hours)
 - a. Spring 2012-2019 “Endocrine Disruptors”

9. **Guest Lecturer, EPID 853 “Advanced Topics in Perinatal and Pediatric Epidemiology”**. Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill. (2 credit hours)
 - a. Spring 2011 “Exposure Assessment”
 - b. Spring 2013-2016 “Exposure Assessment”

(B) Advising/Mentoring

Postdoctoral Fellows

2023-(2025) Diana Pacyga, PhD
 2023-(2025) Emily Werder, PhD
 2020-2023 Amanda Ramos, PhD
 2018-2020 Kyle Roell, PhD
 2016-2018 Alison Singer, PhD
 2015-2016 Jessie Buckley, PhD

2014-2015 Virginia Guidry, PhD

Dissertation Thesis Committee Chair

- 2012 Quaker Harmon, MD, PhD
“The role of inflammatory and cell cycle genes in adverse maternal and fetal outcomes”.
Current position: Staff Scientist, NIEHS
- 2013 Anne Starling, MS, PhD
“Prenatal Perflourinated Chemical Exposure and Preeclampsia in the Norwegian Mother and Child Cohort”.
Current position: Associate Professor, UNC Chapel Hill
- 2014 Jessie Buckley, PhD
“Prenatal phthalate exposure and childhood growth and adiposity”
Current position: Associate Professor, University of North Carolina at Chapel Hill
- 2016 Melissa Furlong, PhD
“Prenatal Exposure to Organophosphorous Pesticides and Neurodevelopmental Patterns in Childhood”
Current position: Assistant Professor, University of Arizona
- 2017 Anna Bauer, PhD
“Prenatal smoking, carbon monoxide signaling and preeclampsia in the Norwegian Mother and Child Cohort”
Current Position: Assistant Professor of Psychiatry, UNC Chapel Hill
- 2019 Samantha Drover, PhD MSc
“Prenatal maternal thyroid function and preschool ADHD”
Current Position: Postdoctoral Fellow, McGill University
- 2020 Giehae Choi, PhD, MPH
“Prenatal organophosphate ester exposure, thyroid dysfunction and ADHD”
Current Position: Postdoctoral Fellow, Johns Hopkins University (K99/R00 Awardee)
- 2022 Amber Hall, PhD, MPH
“Prenatal organophosphate ester exposure and Preschool ADHD and Executive Functions”
Position: Postdoctoral Fellow, Brown University
- 2023 Emma Rosen, PhD
“Phthalates and Replacements: Longitudinal Assessment of Levels, Sources, and Associations with Placental Measures”
Current Position: Research Scientist, Rambol

Current PhD Academic Advisor (*Dissertation Chair)

2024-(2029) Andrea Chalem, MPH
2022-(2027) Rebecca Noga, MPH
2021-(2026) Kimiko Van Wickle, MPH
2021-(2026) Kayla Bruce, MPH
2021-(2025) *Cherrel Manley, MSPH
2018-(2024) *Jake Thistle, MPH

Master's Thesis Committee Chair

2018-2020 Cherrel Manley (MSPH)
2016-2018 Christina Nichols (MSPH)
2015-2017 Arbor Quist (MSPH)
2014-2017 Adrien Wilkie (MSPH)
2014-2017 Elizabeth Kamai (MSPH)
2014-2015 Brett Doherty, (MSPH)

Master's of Science in Clinical Research (MSCR) Advisees

2024-2026 Chinonso Onuoha, MD

Undergraduate Mentorship

2017-2018 Cherrel Manley
McNair Scholar, Chancellor's Science Scholar
"Prenatal Phthalate Exposure and Preterm Birth"

2022-2023 Elizabeth Teka,
21st Century Environmental Health Scholar
"Racial/Ethnic Disparities in Phthalate Exposure" and Environmental Justice in Baden,
North Carolina"

Thesis Committee Membership (non-advisees)

2023-(2026) Jacob Kahrs (PhD candidate, Epidemiology) (Chair, Michele Jonsson-Funk)
2023-(2026) Albert Liu (PhD candidate, Epidemiology) (Chair, Priya Palta)
2023-(2026) Michele Delahanty (PhD candidate, Epidemiology) (Chair, Julie Daniels)
2022-(2025) Alexandra Coffey (PhD candidate, Maternal and Child Health) (Chair, Meghan Shanahan)
2022-(2025) Erin McNell (PhD candidate, Curriculum in Toxicology) (Chair, Kelly Ferguson)
2022-(2025) Luis Zambrana, MD (PhD candidate in Epidemiology) (Chair, Sylvia Becker-Drepps)
2022-(2024) Anneliese Long, ((PhD candidate in Biological Anthropology) (Chair, Amanda Thompson)
2022-2023 Yifei Lu (PhD candidate in Epidemiology) (Chair, Priya Palta)
2021-2023 Yitian Zhang, MPH (PhD candidate in Epidemiology) (Chair, Julie Daniels)
2020-2022 Clare Meernik, MPH (PhD candidate in Epidemiology) (Chair, Hazel Nichols)
2018-2021 Yasmin Barrios, MPH (PhD candidate in Epidemiology) (Chair, Asia Maselko)
2018-2019 Brett Doherty, MSPH (PhD candidate in Epidemiology) (Chair, Julie Daniels)
2017-2019 Elizabeth Suarez, (PhD candidate in Epidemiology) (Chair, Michelle Johnson-Funk)

2017-2019 Rahul Gondalia, (PhD candidate in Epidemiology) (Chair, Eric Whitsel)
 2016-2018 Suzanne Landi, (PhD candidate in Epidemiology) (Chair, Michelle Jonsson-Funk)
 2013-2016 Elizabeth Dehmer, MD (PhD candidate in Epidemiology) (Chair, Gerardo Heiss)
 2015-2017 Jenny Yang, (PhD candidate in Biostatistics) (Chair, Wei Sun)
 2015-2017 Christina Cordero, (PhD candidate in Epidemiology) (Chair, Julie Daniels)
 2014-2016 Jaymin Patel, MSPH (PhD candidate in Epidemiology) (Chair, Steven Meshnick)
 2014-2016 Amanda Eudy, MSPH (PhD candidate in Epidemiology) (Chair, Anna Maria Siega-Riz)
 2014-2016 Angela Liu, MSPH (PhD candidate in Epidemiology) (Chair, Andrew Olshan)
 2013-2015 Shannon Grabich, (PhD candidate in Epidemiology) (Chair, Whitney Robinson)
 2012-2013 David Kessler, (PhD candidate in Biostatistics) (Chair, Amy Herring)
 2012-2013 Jennifer Clark, (PhD candidate in Biostatistics) (Chair, Michael Wu)

GRANTS AND CONTRACTS

**submitted with student/postdoctoral advisee*

(A) ACTIVE

UG3OD035526 (Dabelea, Starling, Moore) 09/01/2023 – 05/31/2025 0.6 CM
 OD

“Early Life Determinants of Child Health: A New Denver-Based Cohort”

Our overarching goal is to recruit and follow a new cohort of pregnant people and their partners, to implement longitudinal data collection using the ECHO Cohort Protocol, and to lead ECHO-wide analyses that advance understanding of when and how exposures during preconception, prenatal, and postnatal/lactational periods influence a broad range of child health outcomes.

Role: Co-Investigator

1R01ES035625-01 (Dunson) 08/01/2023 – 05/31/2028 0.35 CM
 NIH/NIEHS

“Improving inferences on health effects of chemical exposures”

This research projects seeks to develop new methods for the analysis of exposure mixtures.

Role: Co-Investigator and PI of UNC Subcontract

4T32ES007018-41 (Fry, Engel, Zhou) 07/01/2022 – 06/30/2027 0 CM
 Total Directs \$6,689,840
 NIH/NIEHS

“Biostatistics for Research in Environmental Health”

This multidisciplinary training grant funds approximately 30 pre and postdoctoral fellows across three departments: Biostatistics (Zhou H), Environmental Sciences and Engineering (Fry R) and Epidemiology (Engel SM).

Role: Multiple Principal Investigator

P30 ES010126 (Troester) 06/01/2021-2/28/2026 1.8 CM
 Total Directs \$5,000,000
 NIH/NIEHS

“UNC Center for Environmental Health and Susceptibility”

This center provides core support and facilitates research into environmental causes of health concerns, emphasizing innate susceptibility and mechanistic studies.

Role: Deputy Director and Director of the Pilot Projects Program

RD-84021901 (Engel, Director) 07/01/2021 – 06/30/2025 1.8 CM

STAR Program

Total Directs \$1,894,9823

EPA

“UNC Center for Early Life Exposures and Neurotoxicity (UNC CLEAN)”

The vision of the UNC Center for Early Life Exposures and Neurotoxicity (UNC CLEAN) is to provide new knowledge on the role of early life phthalate exposures on neurobehavioral development, discover the underlying neural substrates that link phthalate exposures to developmental outcomes, and translate interdisciplinary science to community stakeholders.

Role: Director and Multiple Principal Investigator of Project 1

R01 ES033518 (Engel, Lin MPI) 07/01/2021 – 06/30/2026 3.6 CM

Total Directs \$2,499,999

NIH/NIEHS

“Early Life Phthalate Exposures in Relation to Structural and Functional Brain Development”

This project seeks to examine the influence of early life exposure to environmental contaminants on brain morphology and connectivity, but collecting environmental biomarkers and environmental survey data, and leveraging the UNC Baby Connectome Project, a multi-year longitudinal study conducting serial neuroimaging of infants from birth through age 4 years.

Role: Multiple Principal Investigator (Contact PI)

U01 DA055344 (Lin, Engel) 09/01/2021 – 08/31/2026 3.0 CM

Total Directs \$1,099,114

NIH/NIDA

“5/6 HBCD Prenatal Experiences and Longitudinal Development (PRELUDE) Consortium”

Major Goals: The objectives of our HEALTHY Brain and Child Development (HBCD) Prenatal Experiences and Longitudinal Development (PRELUDE) consortium are to characterize typical trajectories of brain development from birth through childhood, measuring the influence of key biologic and environmental factors and their interactions on child social, cognitive, and emotional development.

Role: Multiple Principal Investigator

(B) NIH FELLOWSHIPS MENTORED

K99 ES035123 (Werder) 8/1/2023-7/31/2025

“The early life exposome, emerging chemical exposures, and structural and functional brain development in childhood”

This project will leverage omics technology, longitudinal neuroimaging, and dimension reduction methods in the University of North Carolina Baby Connectome Project (BCP) to characterize the early life chemical exposome and its impacts on biomarkers of brain growth and development before age five, ultimately informing efforts to reduce chemical exposures and improve childhood neurodevelopmental trajectories.

Role: Primary Mentor

F32ES031832 (Ramos) 8/1/2020 – 7/20/2023

“Understanding the role of prenatal chemical exposure influences on child externalizing behaviors: Incorporating genetic influences”

This proposed fellowship will provide additional training to (1) gain experience in environmental epidemiology; (2) gain experience in exposure mixture modeling; (3) develop an integrated conceptual model of the ways in which the prenatal environment moderates genetic and environmental influences on child social development, (4) strengthens networking and research dissemination; and (5) obtain additional training in RCR.

Role: Primary Mentor

F30ES022126 (Starling)

12/1/2012 – 08/15/2013

“Epidemiology of Perfluorinated Compounds in Pregnancy and Risk of Preeclampsia”

This specific aims of this study are: 1) to examine the possible association between mid-pregnancy plasma PFC concentrations and preeclampsia, and 2) to examine the relationship between mid-pregnancy PFC concentrations and certain clinical chemistries, which may elucidate the mechanism by which PFCs affect pregnancy physiology. To accomplish these aims, this study proposes to use the existing population-based Norwegian Mother and Child Cohort Study.

Role: Primary Mentor

(C) COMPLETED

R01ES027498 (Herring)

09/01/2017 – 08/31/2022

0.6 CM

Total Directs: Total Directs \$107,251 (UNC Subcontract)

NIH/NIEHS

“Reproducibility and Robustness in Dimension Reduction”

This grant examines statistical approaches for the modeling of multidimensional exposure and outcome data, commonly found in environmental research.

Role: Co-Investigator, PI of UNC Subcontract

R01MD011504 (Engel)

02/01/2017 – 1/31/2023

2.4 CM

Total Directs \$2,089,541

NIH/NIMHD

“The Vaginal Microbiome and Racial Disparity in Preterm Birth”

This project seeks to determine the association of vaginal microbial ecology with preterm birth, and the relationship between xenobiotic, psychological, and nutritional factors and vaginal microbiome profiles.

Role: Principal Investigator

R01CA204258-01A1 (Nichols)

06/01/2017 - 05/31/2022

0.6 CM

Total Directs \$2,726,024

NIH/NCI

“Clinical Pregnancy Outcomes in Adolescent and Young Adult Female Cancer Survivors”

This multi-center grant seeks to examine pregnancy outcomes among young adult cancer survivors, their relationships with treatment, and the influence of assisted reproductive therapies.

Role: Co-Investigator

R01 ES028804-01 (Dunson)

01/01/2018 - 12/31/2021

1.2 CM

Total Directs \$319,556 (UNC Subcontract)

NIH/NIEHS

“Structured nonparametric methods for mixtures of exposures”

This study develops new statistical methods for analyzing exposure mixtures, and incorporates computational toxicology data to inform exposure groupings and refine dose-response estimation.

Role: Co-Investigator, PI of UNC Subcontract

Norwegian Research Council (Aase, Zeiner)

0 CM

“NeuroTox”

This study seeks to examine the influence of prenatal exposure to metals mixtures, cord blood methylation, and risk of ADHD, Cerebral Palsy, and Autism in the Norwegian Mother and Child Cohort.

Role: Collaborator

Gillings Innovation Lab (Engel)

08/01/2017 – 07/30/2019

0 CM

Total Directs: \$ 138,904

UNC Chapel Hill

“Environmental Impacts on Early Brain Development”

This project seeks to examine the influence of early life exposure to environmental contaminants on brain morphology and connectivity, but collecting environmental biomarkers and environmental survey data, and leveraging the UNC Baby Connectome Project, a multi-year longitudinal study conducting serial neuroimaging of infants from birth through age 4 years.

Role: Principal Investigator

P30 Transdisciplinary Pilot Project (Engel)

05/01/2017 – 04/30/2018

0 CM

Total Directs: \$50,000

UNC Chapel Hill, Center for Environmental Health and Susceptibility

“Environmental Impacts on Early Brain Development”

This project seeks to examine the influence of early life exposure to environmental contaminants on brain morphology and connectivity, but collecting environmental biomarkers and environmental survey data, and leveraging the UNC Baby Connectome Project, a multi-year longitudinal study conducting serial neuroimaging of infants from birth through age 4 years.

Role: Principal Investigator

R01ES021777 (Engel)

8/30/2012 – 5/31/2017

3.6 CM

Total Directs \$2,101,158

NIH/NIEHS

“Prenatal Toxicant Exposure and Risk of Attention-Deficit Hyperactivity Disorder”

This project seeks to determine the association of prenatal toxicant exposures with the incidence of ADHD in the Norwegian Mother and Child Birth cohort, and to examine the extent to which maternal thyroid hormone disruption mediates any effects. I am the PI of this project and am responsible for all aspects of project completion.

Role: Principal Investigator

*R21ES021700 (Engel)

11/1/2012 – 10/30/2013

1.2 CM

Total Directs: \$275,000

NIH/NIEHS

“A Pooled Investigation of Prenatal Phthalate Exposure and Childhood Obesity”;

This study pooled data from three children’s environmental health studies for the investigation of prenatal exposure in relation to childhood growth and adiposity.

Role: Principal Investigator (Co-written with Jessie Buckley, predoc)

R01HD058008 (Engel) 06/01/2008 – 05/31/2013 3.6 CM

Total Directs \$1,937,255

NIH/NICHD

“Maternal Smoking, Maternal and Fetal Genetic Variation, and Risk of Preeclampsia”

This was a maternal-child dyad case-control study of gene-smoking interactions in the etiology of preeclampsia, nested within the Norwegian Mother and Child cohort.

Role: Principal Investigator

P30 Transdisciplinary Pilot Project (Engel) 04/01/2011-03/31/2012 0 CM

Total Directs: \$50,000

UNC Chapel Hill

“Investigation of Biospecimen Integrity for the Examination of Prenatal Toxicant Exposure in relation to Attention-Deficit Hyperactivity Disorder in the Norwegian Mother and Child Birth Cohort (MoBa)”

This project examined the integrity of biospecimens for the measurement of toxicants and thyroid hormones in stored specimens, to support an R01 application (later awarded).

Role: Principal Investigator

R21HD060207 (Engel) 05/15/2009 - 04/30/2011 1.2 CM

Total Directs: \$275,000

NIH/NICHD

“Maternal Genetic Variation and Risk of Adverse Pregnancy Outcome”

This project examined maternal genetic influences on adverse pregnancy outcomes in the UNC Pregnancy and Nutrition Cohort.

Role: Principal Investigator

P01ES09584 (Wolff) 11/01/2003 – 10/31/2011 3.6 CM

Total Directs: \$4,747,920

NIH/NIEHS & EPA

“Mount Sinai Center for Children’s Environmental Health and Disease Prevention Research Center”

In the first cycle of this award, the MSSM Children’s Study sought to examine the role of pesticide exposures in child health and development. In the second cycle, the MSSM expanded to endocrine disruptors, including phthalates, BPA and other hormonally active compounds. Project 2, led by Dr. Stephanie Engel, was the longitudinal birth cohort which supplied the epidemiological data for this center.

Role: Project 2, Principal Investigator

U19A1062623 (Moran) 03/01/2005 – 03/31/2011 1.8 CM

Total Directs: \$12,321,920

NIH/NIAID

“Viral Immunity in Influenza Infected Adults”

Role: Co-Investigator

Pilot Award (Engel) 0 CM

Total Directs: \$15,000

Mount Sinai Research and Clinical Translation Unit

“Maternal Genetic Variation and Adverse Pregnancy Outcomes”

Role: Principal Investigator

R21ES014034 (Engel)

06/01/2006 – 05/31/2010

1.2 CM

Total Directs: \$275,000

NIH/NIEHS

“Advanced Reproductive Age and Environmental Health”

Role: Principal Investigator

Mount Sinai School of Medicine CIVIA Pilot (Stein) 09/01/2008 – 08/31/2009

0 CM

Total Directs: \$20,000

“Viral Immunity in Influenza Infected Adults”

Role: Co- Investigator

Mount Sinai School of Medicine Pilot Award (Engel, Stein) 11/01/2008 – 10/31/2009

0 CM

Total Directs: \$19,870

“A Pilot Exposure Assessment Using Newly Identified Biomarkers”

Role: Principal Investigator (MPI)

R21HD050739 (Savitz)

01/01/2006 – 06/30/2007

1.2 CM

NIH/NICHD

Total Directs: \$275,000

“Ethnicity and Pregnancy Outcomes in New York City”

Role: Co-Investigator

Mount Sinai School of Medicine Pilot Award (Engel) 08/01/2004 – 07/31/2005

0 CM

Total Directs: \$15,000

“A Pilot Investigation of in utero Bisphenol A Exposure and Birth Outcomes”

Role: Principal Investigator

R8208270 (Wolff)

08/01/2002 – 07/31/2005

3 CM

EPA

Total Directs: \$748,512

“Markers of Individual Susceptibility and Outcome Related to Fetal and Infant Growth and Development”

Role: Co-Investigator

PROFESSIONAL SERVICE

UNIVERSITY OF NORTH CAROLINA SCHOOL OF PUBLIC HEALTH, DEPARTMENT OF EPIDEMIOLOGY

2011-2018 Graduate Studies Committee

2013 Reviewer, Department of Epidemiology Kaplan Award papers

2013 Faculty mentorship committee: Dr. Laura Loehr

- 2014 Member, Department of Epidemiology Staff Excellence Award Committee (Employee Recognition Program)
- 2014 Member, Review Committee for UNC Institute for the Environment
- 2015 Search Committee for Assistant Director of Graduate Studies
- 2015 Chair, Search Committee for Clinical Assistant Professor of Epidemiology
- 2015 Chair, Search Committee for Research Assistant Professor of Epidemiology
- 2016 Faculty mentorship committee: Dr. Tania Desrosiers
- 2017 Search Committee Member, Chair of Epidemiology, UNC Chapel Hill
- 2017 Faculty mentorship committee: Dr. Kim Powers
- 2017 Faculty mentorship committee: Dr. Hazel Nichols
- 2018 Chair, Methods Curriculum Review Committee
- 2020- Faculty mentorship committee: Dr. Chantel Martin
- 2020 Chair, Multiple Position Tenure Track Search, Department of Epidemiology UNC-CH
- 2022- Faculty mentorship committee: Dr. Mollie Wood
- 2022- Faculty mentorship committee: Dr. Anne Starling
- 2022- Faculty mentorship committee: Dr. Marc Emerson
- 2022 Speaker for Chancellor's Science Scholars workshop (April 8, 2022 3-5pm). "*A Day in the Life of a Faculty Member at UNC*".
- 2023-2026 Gillings School of Global Public Health Appointments, Promotions and Tenure Committee
- 2024 Faculty mentorship committee: Dr. Elizabeth McClure

MOUNT SINAI SCHOOL OF MEDICINE

- 2010-2011 Member, Faculty Council

NIH GRANT REVIEWS

- 2009 Temporary Member, IRAP (ZRG1 IRAP-Q 01) study section, June 8-9, 2009, Alexandria VA
- 2009 Reviewer ZRG1 PSE-F 95 (S), June 9 2009 Alexandria VA
- 2009 Reviewer ZES1 SET-V 01, NIEHS: "Assessing and Addressing Community Exposures to Environmental Contaminants", July 13-15 2009, Research Triangle Park, NC
- 2010 Temporary Member, IRAP (ZRG1 IRAP-Q 01) study section, June 3-4, 2010, Chicago IL
- 2010 Temporary Member, IRAP (ZRG1 IRAP-Q 01) study section, June 6-7, 2010, Washington, DC
- 2012 NIH CSR Social Sciences and Population Studies (ZRG1-SPSS), Feb 23-24, 2012
- 2013 NIH CSR NAME, Feb 13-15, 2013 San Antonio, TX
- 2013 NIH CSR NAME, Dec 17-18, 2013 Washington, DC
- 2015 NIEHS Special Emphasis Panel for Career Awards (K22 & K23) ZES1 LKB-D (C) 1, April 8
- 2016 NIH CSR IRAP, Feb 11-12, 2016, Washington, DC
- 2017 NIH Fellowships: Risk, Prevention and Health Behavior ZRG1 F16-M (09)F March 23, 2017
- 2017-2021 Member, Infectious Disease, Reproductive Health, Asthma and Pulmonary Conditions (IRAP) NIH study section (July 1, 2017 – June 30, 2021)

2023 Temporary Member, NIEHS K ZES1 LWJ-W (K0) 1

EDITORIAL BOARD

2010-2024 Editorial Board, Epidemiology

2016-2021 Editorial Board, Environmental Research

2017- Editorial Board, International Journal of Hygiene and Environmental Health

OTHER NATIONAL SERVICE

2010 Workgroup Member of Endocrine Disruptors Workgroup, “Optimizing Expose Metrics for the National Children's Study” Workshop; Sponsors: EPA, NIEHS, and the National Children’s Study (NCS)

2012-2014 Member, IOM Committee for the Review of the Health Effects in Vietnam Veterans of Exposure to Herbicides 9th Biennial Update

2015-ongoing Member, Project TENDR “Targeting environmental and neurodevelopmental risks”
Project TENDR is a small committee of 40 invited scientists, health providers and advocates for children’s health and development, brought together for the purpose of consensus building to determine a set of environmental chemicals for which the evidence and levels of exposure warrant action; and to prepare dissemination and implementation plans for the recommendations.

2016 Reviewer, Division of Intramural Population Health Research (DIPHR), Eunice Kennedy Shriver National Institute of Child Health and Human Development (Oct, 2016)

2017-ongoing P30 External Advisory Board Member, Mount Sinai School of Medicine (PI, Robert Wright).

2018-2023 Pre-tenure NIEHS Principal Investigator Mentor Dr. Kelly Ferguson

2020-ongoing Chair, External Advisory Committee, Center for Population Health Research, University of Montana (Director, Curtis Noonan)

2020-ongoing External Advisor, NIEHS ONES Award for Abby Fleisch

2022-2023 National Toxicology Program, Board of Scientific Counselors Working Group on Fluoride

2023 Member, EPA Science Advisory Committee to review EPA’s Draft Proposed Cumulative Risk Assessment Principles under TSCA and Draft Proposed Approach for Phthalates (May 8-11, 2023), Special Government Employee effective 3/26/2023

TENURE AND PROMOTION REVIEWS

Portland State University

University of Louisville

University of Wisconsin-Milwaukee

University of Pittsburgh

University of Utah, Salt Lake

University at Buffalo

Michigan State University

Brown University

National Cancer Institute

JOURNAL REVIEWER

Reproductive Toxicology
American Journal of Human Genetics
Environment International
Pediatrics
International Journal of Epidemiology
American Journal of Clinical Nutrition
Paediatric and Perinatal Epidemiology
Journal of Reproductive Immunology
Pediatric Research
Epidemiology
Genetics in Medicine
American Journal of Epidemiology
American Journal of Industrial Medicine
Environmental Health Perspectives
American Journal of Medical Genetics
JAMA

ORAL PRESENTATIONS

1. Engel SM “Impact and Major Outcomes of MoBa Contaminant Studies, Toxicant exposures and ADHD”. Invited speaker for NEUROTOX Consortium Meeting October 18, 2017; Oslo, Norway
2. Engel SM “Impact and Major Outcomes of MoBa Contaminant Studies”. Invited Plenary Speaker. April 20, 2017; Oslo, Norway
3. Engel SM “Perinatal Exposure to Endocrine Disrupting Compounds and Child Development”. Invited Speaker, Center for Developmental Diseases Investigator Forum. University of North Carolina, Chapel Hill. Nov 8, 2016.
4. Engel SM. “Strengthening Inferences in Molecular Environmental Epidemiology”. Symposium: “Pushing the Boundaries of Understanding Environmental Influences on Neurodevelopment.” International Meeting for Autism Research (IMFAR). (Invited symposium speaker) May 12, 2016
5. Engel SM. “Prenatal Exposure to Phthalates & Child Cognitive and Behavioral Development”. University of Illinois at Urbana-Champaign. Nov, 20, 2015. (Invited)
6. Engel SM “State of the Evidence: Prenatal Exposure to Phthalates & Child Cognitive and Behavioral Development”. University of Michigan Department of Environmental Health Sciences. Jan 24, 2014 (Invited)
7. Engel SM “Prenatal organophosphate pesticide exposure and child neurodevelopment at 24 months: A pooled analysis of the Mount Sinai, Berkeley, Cincinnati and Columbia Children’s Environmental Health Center Cohorts.” NCSU Environmental & Molecular Toxicology Department. Feb 26, 2013 (Invited)

8. Engel SM “Prenatal organophosphate pesticide exposure and child neurodevelopment at 24 months: A pooled analysis of the Mount Sinai, Berkeley, Cincinnati and Columbia Children’s Environmental Health Center Cohorts.” NIEHS Epidemiology Branch talk Dec 10, 2012. (Invited)
9. Engel SM. Conference: International Neurotoxicology Conference “Neurotox 27: Environmentally Triggered Neurodevelopmental Disorders: Focus on Endocrine Disruption and Sex Differences in Autism, ADHD and Schizophrenia”. Title: “Sex differences in behavioral effects of Endocrine Disrupting exposures in a Multiethnic Birth Cohort”. Research Triangle Park, NC. Monday Oct 31, 2011. (Invited plenary speaker)
10. Engel SM. “Prenatal BPA Biomarker levels and neurodevelopment in the Mount Sinai Children’s Environmental Health Center.” Symposium Speaker “In Utero BPA Exposure and Children’s Health”. International Society of Environmental Epidemiology, Barcelona, Spain. September 13, 2011.
11. Engel SM. “Prenatal Organophosphate Pesticides, PON1, and Neurodevelopment in the Mount Sinai Children’s Environmental Health Study.” Symposium Speaker “Organophosphate Pesticides & Neurodevelopment: Biological Plausibility and Findings from Three Children’s Environmental Health Centers”. International Society of Environmental Epidemiology, Barcelona, Spain. September 14, 2011.
12. Engel SM. “Prenatal Organophosphate Pesticides, PON1, and Neurodevelopment in the Mount Sinai Children’s Environmental Health Study.” Symposium Speaker “Organophosphate Pesticides & Neurodevelopment: Biological Plausibility and Findings from Three Children’s Environmental Health Centers”. Society for Epidemiologic Research, Montreal, Canada. June 23, 2011.
13. Engel SM. “Neurobehavioral Consequences of Prenatal Phthalate Exposure in a Multiethnic Birth Cohort” Molecular Epidemiology Special Interest Group (SIG) of the Environmental Mutagen Society (EMS), October 25th, 2010 Ft. Worth, Texas. (Invited)
14. Engel SM. “Neurobehavioral Consequences of Prenatal Phthalate Exposure in a Multiethnic Birth Cohort” NIEHS Center for Environmental Health Organics Core seminar series, October 4, 2010 Harvard School of Public Health. (Invited)
15. Engel SM. “Neurobehavioral Consequences of Prenatal Phthalate Exposure in a Multiethnic Birth Cohort” Prenatal Programming and Toxicity (PPTOX II) Symposium, Role of Environmental Stressors in the Developmental Origins of Disease, Dec 7-10, 2009 Miami Beach, FL. (Invited)
16. Engel SM. “Prenatal Exposure to Low Molecular Weight Phthalates and Childhood Behavior and Executive Functioning” International Society of Environmental Epidemiology, Dublin, Ireland, August 26, 2009
17. Engel SM. “Prenatal Phthalate Exposure and Neurodevelopment in a Multiethnic Birth Cohort” February 25, 2009. Center for Environmental Health and Susceptibility Seminar Series. University of North Carolina, Chapel Hill. (Invited)

18. Engel SM. “Prenatal Phthalate Exposure is Associated with Altered Neonatal Behavior in a Multiethnic Pregnancy Cohort” October 15, 2008. International Society of Environmental Epidemiology Annual Meeting. Pasadena, CA.
19. Engel SM. “New Approaches to Studying the Paradoxical Relationship between Maternal Smoking and Preeclampsia” September 18, 2008. Norwegian Institute of Public Health. Oslo, Norway. (Invited)
20. Engel SM. “Prenatal Toxicant Exposure and Neurodevelopment in a Multiethnic Pregnancy Cohort” September 10, 2008. Department of Psychiatry, Seaver Autism Research Seminar Series. Mount Sinai School of Medicine (Invited)
21. Engel SM. “Prenatal Exposure to Organophosphate and Organochlorines and Performance on the Brazelton Neonatal Behavioral Assessment Scale” June 23, 2006. Congress for Epidemiological Research, Environmental Epidemiology Session, Seattle WA.
22. Engel SM. “Pro- and Anti- Inflammatory Cytokine Polymorphisms and Risk of Small-for-Gestational Age or Spontaneous Preterm Births” February 25, 2005. National Institute of Child Health and Human Development, Division of Epidemiology, Statistics, and Prevention Research. (Invited)
23. Engel SM. “Genetic and Environmental Susceptibility to Adverse Reproductive Outcomes” June, 2004. Department of Obstetrics, Gynecology and Reproductive Sciences, Mount Sinai School of Medicine. (Invited)
24. Engel SM. “Anti-inflammatory Cytokine Polymorphisms and Risk of Small-for-Gestational Age or Spontaneous Preterm Birth” June 22, 2004. Society for Epidemiological Research, Fetal Growth Spotlight Session.
25. Engel SM. “Introductory workshop on statistical methods for inferred haplotype analyses using unphased genetic data” August, 2003 University of North Carolina at Chapel Hill. (Invited)

SELECTED ABSTRACTS/POSTERS (*STUDENT/FELLOW)

1. *Furlong M, Engel S, Barr D, Wolf M. “Prenatal Pyrethroid Exposure and Childhood Behavior and Executive Functioning.” Poster to be presented at the Society for Epidemiological Research, Seattle Washington, June 2017.
2. *Furlong M, Engel S, Buckley J, Daniels J, Engel L, Goldman B, Wolff M, Herring A. “Prenatal Exposure to Organophosphorus Pesticides and Childhood Neurodevelopmental Phenotypes.” Poster presented at Society for Epidemiological Research, Miami Florida, June 2016.
3. *Singer AB, Wolff MS, Engel SM. Prenatal phthalate exposures in relation to child temperament at 12 and 24 months. Poster at NIEHS Environmental Health Science FEST, Durham, NC, December 2016.

4. *Singer AB, Wolff MS, Silva M, Calafat A, Engel SM. Prenatal phthalate exposures and child temperament at 12 and 24 months. Poster at International Society for Environmental Epidemiology, September 2016.
5. *Kamai E, Canfield RL, Wolff MS, Werder E, Engel SM. Prenatal exposure to phthalates, working memory, and discrepancies in performance across intelligence domains among children in a multiethnic birth cohort in New York City. International Society for Environmental Epidemiology, Annual Conference, Rome, Italy, September 2016
6. *Kamai E, Canfield RL, Wolff MS, Werder E, Engel SM. Prenatal phthalate exposure, childhood IQ, and working memory in the Mount Sinai Children's Environmental Health Center. NIEHS Environmental Health Science FEST, Durham, North Carolina, USA, December 2016.
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