

CURRICULUM VITAE

STEPHANIE M. ENGEL, PHD

PERSONAL

BUSINESS

Department of Epidemiology, CB#7435
University of North Carolina
Chapel Hill, NC 27599-7435
Stephanie.Engel@unc.edu

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)

- 2018-2018 Member, Intellectual and Developmental Disabilities Research Center
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
- 2015-2011- 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. 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.

2. 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
3. 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
4. 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
5. *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
6. Nguyen P, Engel SM, Herring AH. Power Analysis of Exposure Mixture Studies via Monte Carlo Simulations. *Statistics in Biosciences*, in press.
7. 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.
8. Tan KR, Meernik C, Anderson C, Deal AM, Engel S, Getahun D, Kent EE, Kirchhoff 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.
9. *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.
10. *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.

11. 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.
12. 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.
13. Meernik C, Engel SM, Baggett CD, Wardell A, Zhou X, Ruddy KJ, Wantman E, Baker VL, Luke B, Mersereau JE, Cai J, Olshan AF, Smitherman AB, Nichols HB. Time to cancer treatment and reproductive outcomes after fertility preservation among adolescent and young adult women with cancer. *Cancer.* 2023;129(2):307-319.
14. 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.
15. *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.
16. *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.
17. 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
18. 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.
19. Carter KA, Fodor AA, Balkus JE, Zhang A, Serrano MG, Buck GA, Engel SM, Wu MC, Sun S. Vaginal Microbiome Metagenome Inference Accuracy: Differential Measurement Error according to Community Composition. *mSystems.* 2023;8(2):e0100322.
20. 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.

21. *Thistle JE, Ramos A, Roell KR, Choi G, Manley CK, Hall AM, Villanger GD, Cequier E, Sakhi AK, Thomsen C, Zeiner P, Reichborn-Kjennerud T, Øvergaard KR, Herring A, Aase H, Engel SM. Prenatal organophosphorus pesticide exposure and executive function in preschool-aged children in the Norwegian Mother, Father and Child Cohort Study (MoBa). *Environ Res.* 2022;212(Pt D):113555.
22. *Sun S, Serrano MG, Fettweis JM, Basta P, Rosen E, Ludwig K, Sorgen AA, Blakley IC, Wu MC, Dole N, Thorp JM, Siega-Riz AM, Buck GA, Fodor AA, Engel SM. Race, the Vaginal Microbiome, and Spontaneous Preterm Birth. *mSystems.* 2022;7(3):e0001722.
23. *Rosen EM, Martin CL, Siega-Riz AM, Dole N, Basta PV, Serrano M, Fettweis J, Wu M, Sun S, Thorp JM, Jr., Buck G, Fodor AA, Engel SM. Is prenatal diet associated with the composition of the vaginal microbiome? *Paediatr Perinat Epidemiol.* 2022;36(2):243-253.
24. Meernik C, Mersereau JE, Baggett CD, Engel SM, Moy LM, Cannizzaro NT, Peavey M, Kushi LH, Chao CR, Nichols HB. Fertility Preservation and Financial Hardship among Adolescent and Young Adult Women with Cancer. *Cancer Epidemiol Biomarkers Prev.* 2022;31(5):1043-1051.
25. *Manley CK, Villanger GD, Thomsen C, Cequier E, Sakhi AK, Reichborn-Kjennerud T, Herring AH, Øvergaard KR, Zeiner P, Roell KR, Engel LS, Kamai EM, Thistle J, Hall A, Aase H, Engel SM. Prenatal Exposure to Organophosphorus Pesticides and Preschool ADHD in the Norwegian Mother, Father and Child Cohort Study. *Int J Environ Res Public Health.* 2022;19(13).
26. Hu W, Liu CW, Jiménez JA, McCoy ES, Hsiao YC, Lin W, Engel SM, Lu K, Zylka MJ. Detection of Azoxystrobin Fungicide and Metabolite Azoxystrobin-Acid in Pregnant Women and Children, Estimation of Daily Intake, and Evaluation of Placental and Lactational Transfer in Mice. *Environ Health Perspect.* 2022;130(2):27013.
27. *Hall AM, Thistle JE, Manley CK, Roell KR, Ramos AM, Villanger GD, Reichborn-Kjennerud T, Zeiner P, Cequier E, Sakhi AK, Thomsen C, Aase H, Engel SM. Organophosphorus Pesticide Exposure at 17 Weeks' Gestation and Odds of Offspring Attention-Deficit/Hyperactivity Disorder Diagnosis in the Norwegian Mother, Father, and Child Cohort Study. *Int J Environ Res Public Health.* 2022;19(24).
28. Avery CL, Howard AG, Ballou AF, Buchanan VL, Collins JM, Downie CG, Engel SM, Graff M, Highland HM, Lee MP, Lilly AG, Lu K, Rager JE, Staley BS, North KE, Gordon-Larsen P. Strengthening Causal Inference in Exposomics Research: Application of Genetic Data and Methods. *Environ Health Perspect.* 2022;130(5):55001.
29. Weyde KVF, Olsen AK, Duale N, Kamstra JH, Skogheim TS, Caspersen IH, Engel SM, Biele G, Xia Y, Meltzer HM, Aase H, Villanger GD. Gestational blood levels of toxic metal and essential

element mixtures and associations with global DNA methylation in pregnant women and their infants. *Sci Total Environ.* 2021;787:147621.

30. Suarez EA, Boggess K, Engel SM, Stürmer T, Lund JL, Jonsson Funk M. Ondansetron use in early pregnancy and the risk of miscarriage. *Pharmacoepidemiol Drug Saf.* 2021;30(2):103-113.
31. Suarez EA, Boggess K, Engel SM, Stürmer T, Lund JL, Funk MJ. Ondansetron use in early pregnancy and the risk of late pregnancy outcomes. *Pharmacoepidemiol Drug Saf.* 2021;30(2):114-125.
32. Skogheim TS, Weyde KVF, Engel SM, Aase H, Surén P, Øie MG, Biele G, Reichborn-Kjennerud T, Caspersen IH, Hornig M, Haug LS, Villanger GD. Metal and essential element concentrations during pregnancy and associations with autism spectrum disorder and attention-deficit/hyperactivity disorder in children. *Environ Int.* 2021;152:106468.
33. Skogheim TS, Weyde KVF, Aase H, Engel SM, Surén P, Øie MG, Biele G, Reichborn-Kjennerud T, Brantsæter AL, Haug LS, Sabaredzovic A, Auyeung B, Villanger GD. Prenatal exposure to per- and polyfluoroalkyl substances (PFAS) and associations with attention-deficit/hyperactivity disorder and autism spectrum disorder in children. *Environ Res.* 2021;202:111692.
34. *Roell KR, Harmon QE, Klungsøyr K, Bauer AE, Magnus P, Engel SM. Clustering Longitudinal Blood Pressure Trajectories to Examine Heterogeneity in Outcomes Among Preeclampsia Cases and Controls. *Hypertension.* 2021;77(6):2034-2044.
35. Nichols HB, Baggett CD, Engel SM, Getahun D, Anderson C, Cannizzaro NT, Green L, Gupta P, Laurent CA, Lin PC, Meernik C, Moy LM, Wantman E, Xu L, Kwan ML, Mersereau JE, Chao CR, Kushi LH. The Adolescent and Young Adult (AYA) Horizon Study: An AYA Cancer Survivorship Cohort. *Cancer Epidemiol Biomarkers Prev.* 2021;30(5):857-866
36. *Kamai EM, Villanger GD, Nethery RC, Thomsen C, Sakhi AK, Drover SSM, Hoppin JA, Knudsen GP, Reichborn-Kjennerud T, Zeiner P, Overgaard K, Herring AH, Aase H, Engel SM. Gestational Phthalate Exposure and Preschool Attention Deficit Hyperactivity Disorder in Norway. *Environ Epidemiol.* 2021;5(4):e161.
37. 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.
38. Engel SM, Patisaul HB, Brody C, Hauser R, Zota AR, Bennet DH, Swanson M, Whyatt RM. Neurotoxicity of Ortho-Phthalates: Recommendations for Critical Policy Reforms to Protect Brain Development in Children. *Am J Public Health.* 2021;111(4):687-695.
39. *Choi G, Villanger GD, Drover SSM, Sakhi AK, Thomsen C, Nethery RC, Zeiner P, Knudsen GP, Reichborn-Kjennerud T, Øvergaard KR, Herring AH, Skogan AH, Biele G, Aase H, Engel SM.

Prenatal phthalate exposures and executive function in preschool children. *Environ Int.* 2021;149:106403.

40. *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.
41. *Choi G, Keil AP, Richardson DB, Daniels JL, Hoffman K, Villanger GD, Sakhi AK, Thomsen C, Reichborn-Kjennerud T, Aase H, Engel SM. Pregnancy exposure to organophosphate esters and the risk of attention-deficit hyperactivity disorder in the Norwegian mother, father and child cohort study. *Environ Int.* 2021;154:106549.
42. *Bauer AE, Avery CL, Shi M, Weinberg CR, Olshan AF, Harmon QE, Luo J, Yang J, Manuck T, Wu MC, Klungsoyr K, Trogstad L, Magnus P, Engel SM. Do Genetic Variants Modify the Effect of Smoking on Risk of Preeclampsia in Pregnancy? *Am J Perinatol.* 2021.
43. Barrios YV, Maselko J, Engel SM, Pence BW, Olshan AF, Meltzer-Brody S, Dole N, Thorp JM. The relationship of cumulative psychosocial adversity with antepartum depression and anxiety. *Depress Anxiety.* 2021;38(10):1034-1045.
44. Villanger GD, Ystrom E, Engel SM, Longnecker MP, Pettersen R, Rowe AD, Reichborn-Kjennerud T, Aase H. Neonatal thyroid-stimulating hormone and association with attention-deficit/hyperactivity disorder. *Paediatr Perinat Epidemiol.* 2020;34(5):590-596.
45. Villanger GD, Drover SSM, Nethery RC, Thomsen C, Sakhi AK, Øvergaard KR, Zeiner P, Hoppin JA, Reichborn-Kjennerud T, Aase H, Engel SM. Associations between urine phthalate metabolites and thyroid function in pregnant women and the influence of iodine status. *Environ Int.* 2020;137:105509.
46. Steinhorsdottir V, McGinnis R, Williams NO, Stefansdottir L, Thorleifsson G, Shooter S, Fadista J, Sigurdsson JK, Auro KM, Berezina G, Borges MC, Bumpstead S, Bybjerg-Grauholm J, Colgiu I, Dolby VA, Dudbridge F, Engel SM, Franklin CS, Frigge ML, Frisbaek Y, Geirsson RT, Geller F, Gretarsdottir S, Gudbjartsson DF, Harmon Q, Hougaard DM, Hegay T, Helgadottir A, Hjartardottir S, Jääskeläinen T, Johannsdottir H, Jonsdottir I, Juliusdottir T, Kalsheker N, Kasimov A, Kemp JP, Kivinen K, Klungsoyr K, Lee WK, Melbye M, Miedzybrodska Z, Moffett A, Najmutdinova D, Nishanova F, Olafsdottir T, Perola M, Pipkin FB, Poston L, Prescott G, Saevarsdottir S, Salimbayeva D, Scaife PJ, Skotte L, Staines-Urias E, Stefansson OA, Sørensen KM, Thomsen LCV, Tragante V, Trogstad L, Simpson NAB, Aripova T, Casas JP, Dominiczak AF, Walker JJ, Thorsteinsdottir U, Iversen AC, Feenstra B, Lawlor DA, Boyd HA, Magnus P, Laivuori H, Zakhidova N, Svyatova G, Stefansson K, Morgan L. Genetic predisposition to hypertension is associated with preeclampsia in European and Central Asian women. *Nat Commun.* 2020;11(1):5976.
47. 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.

48. 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.
49. 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.
50. 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.
51. 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.
52. Landi SN, Radke S, Engel SM, Boggess K, Stürmer T, Howe AS, Funk MJ. Association of Long-term Child Growth and Developmental Outcomes With Metformin vs Insulin Treatment for Gestational Diabetes. *JAMA Pediatr.* 2019;173(2):160-168.
53. Landi SN, Radke S, Boggess K, Engel SM, Stürmer T, Howe AS, Jonsson Funk M. Comparative effectiveness of metformin versus insulin for gestational diabetes in New Zealand. *Pharmacoepidemiol Drug Saf.* 2019;28(12):1609-1619.
54. Gondalia R, Baldassari A, Holliday KM, Justice AE, Méndez-Giráldez R, Stewart JD, Liao D, Yanosky JD, Brennan KJM, Engel SM, Jordahl KM, Kennedy E, Ward-Caviness CK, Wolf K, Waldenberger M, Cyrus J, Peters A, 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. Methylome-wide association study provides evidence of particulate matter air pollution-associated DNA methylation. *Environ Int.* 2019;132:104723.
55. Eudy AM, Siega-Riz AM, Engel SM, Franceschini N, Howard AG, Clowse MEB, Petri M. Preconceptional Cardiovascular Health and Pregnancy Outcomes in Women with Systemic Lupus Erythematosus. *J Rheumatol.* 2019;46(1):70-77.
56. *Drover SSM, Villanger GD, Aase H, Skogheim TS, Longnecker MP, Zoeller RT, Reichborn-Kjennerud T, Knudsen GP, Zeiner P, Engel SM. Maternal Thyroid Function During Pregnancy or Neonatal Thyroid Function and Attention Deficit Hyperactivity Disorder: A Systematic Review. *Epidemiology.* 2019;30(1):130-144.
57. Doherty BT, Hoffman K, Keil AP, Engel SM, Stapleton HM, Goldman BD, Olshan AF, Daniels JL. Prenatal exposure to organophosphate esters and cognitive development in young children in the Pregnancy, Infection, and Nutrition Study. *Environ Res.* 2019;169:33-40.

58. Doherty BT, Hoffman K, Keil AP, Engel SM, Stapleton HM, Goldman BD, Olshan AF, Daniels JL. Prenatal exposure to organophosphate esters and behavioral development in young children in the Pregnancy, Infection, and Nutrition Study. *Neurotoxicology*. 2019;73:150-160.
59. Cordero C, Windham GC, Schieve LA, Fallin MD, Croen LA, Siega-Riz AM, Engel SM, Herring AH, Stuebe AM, Vladutiu CJ, Daniels JL. Maternal diabetes and hypertensive disorders in association with autism spectrum disorder. *Autism Res*. 2019;12(6):967-975.
60. Teran Hidalgo SJ, Wu MC, Engel SM, Kosorok MR. Goodness-Of-Fit Test for Nonparametric Regression Models: Smoothing Spline ANOVA Models as Example. *Comput Stat Data Anal*. 2018;122:135-155.
61. Nichols HB, Anderson C, Ruddy KJ, Black KZ, Luke B, Engel SM, Mersereau JE. Childbirth after adolescent and young adult cancer: a population-based study. *J Cancer Surviv*. 2018;12(4):592-600.
62. Magnus MC, Miliku K, Bauer A, Engel SM, Felix JF, Jaddoe VWV, Lawlor DA, London SJ, Magnus P, McGinnis R, Nystad W, Page CM, Rivadeneira F, Stene LC, Tapia G, Williams N, Bonilla C, Fraser A. Vitamin D and risk of pregnancy related hypertensive disorders: mendelian randomisation study. *Bmj*. 2018;361:k2167.
63. Keil AP, Daza EJ, Engel SM, Buckley JP, Edwards JK. A Bayesian approach to the g-formula. *Stat Methods Med Res*. 2018;27(10):3183-3204.
64. Hertz-Picciotto I, Sass JB, Engel S, Bennett DH, Bradman A, Eskenazi B, Lanphear B, Whyatt R. Organophosphate exposures during pregnancy and child neurodevelopment: Recommendations for essential policy reforms. *PLoS Med*. 2018;15(10):e1002671.
65. *Furlong M, Herring AH, Goldman BD, Daniels JL, Wolff MS, Engel LS, Engel SM. Early Life Characteristics and Neurodevelopmental Phenotypes in the Mount Sinai Children's Environmental Health Center. *Child Psychiatry Hum Dev*. 2018;49(4):534-550.
66. Eudy AM, Siega-Riz AM, Engel SM, Franceschini N, Howard AG, Clowse MEB, Petri M. Effect of pregnancy on disease flares in patients with systemic lupus erythematosus. *Ann Rheum Dis*. 2018;77(6):855-860.
67. Engel SM, Villanger GD, Nethery RC, Thomsen C, Sakhi AK, Drover SSM, Hoppin JA, Zeiner P, Knudsen GP, Reichborn-Kjennerud T, Herring AH, Aase H. Prenatal Phthalates, Maternal Thyroid Function, and Risk of Attention-Deficit Hyperactivity Disorder in the Norwegian Mother and Child Cohort. *Environ Health Perspect*. 2018;126(5):057004.
68. Dehmer EW, Phadnis MA, Gunderson EP, Lewis CE, Bibbins-Domingo K, Engel SM, Jonsson Funk M, Kramer H, Kshirsagar AV, Heiss G. Association Between Gestational Diabetes and Incident Maternal CKD: The Coronary Artery Risk Development in Young Adults (CARDIA) Study. *Am J Kidney Dis*. 2018;71(1):112-122.

69. Buckley JP, Quirós-Alcalá L, Teitelbaum SL, Calafat AM, Wolff MS, Engel SM. Associations of prenatal environmental phenol and phthalate biomarkers with respiratory and allergic diseases among children aged 6 and 7 years. *Environ Int*. 2018;115:79-88.
70. *Bauer AE, Weinberg CR, Engel SM. Response to Commentary: Genetic Association Family-Based Studies and Preeclampsia. *Paediatr Perinat Epidemiol*. 2018;32(1):16-18.
71. *Bauer AE, Avery CL, Shi M, Weinberg CR, Olshan AF, Harmon QE, Luo J, Yang J, Manuck TA, Wu MC, Williams N, McGinnis R, Morgan L, Klungsoyr K, Trogstad L, Magnus P, Engel SM. A Family Based Study of Carbon Monoxide and Nitric Oxide Signalling Genes and Preeclampsia. *Paediatr Perinat Epidemiol*. 2018;32(1):1-12.
72. Anderson C, Smitherman AB, Engel SM, Nichols HB. Modifiable and non-modifiable risk factors for preterm delivery among adolescent and young adult cancer survivors. *Cancer Causes Control*. 2018;29(2):289-295.
73. Anderson C, Engel SM, Anders CK, Nichols HB. Live birth outcomes after adolescent and young adult breast cancer. *Int J Cancer*. 2018;142(10):1994-2002.
74. Wolff MS, Buckley JP, Engel SM, McConnell RS, Barr DB. Emerging exposures of developmental toxicants. *Curr Opin Pediatr*. 2017;29(2):218-224.
75. *Villanger GD, Learner E, Longnecker MP, Ask H, Aase H, Zoeller RT, Knudsen GP, Reichborn-Kjennerud T, Zeiner P, Engel SM. Effects of Sample Handling and Analytical Procedures on Thyroid Hormone Concentrations in Pregnant Women's Plasma. *Epidemiology*. 2017;28(3):365-369.
76. Smith TD, McMahon MJ, Millen ME, Llera C, Engel SM, Li L, Bhatnagar KP, Burrows AM, Zumpano MP, DeLeon VB. Growth and Development at the Sphenothmoidal Junction in Perinatal Primates. *Anat Rec (Hoboken)*. 2017;300(12):2115-2137.
77. *Singer AB, Wolff MS, Silva MJ, Calafat AM, Engel SM. Prenatal phthalate exposures and child temperament at 12 and 24 months. *Neurotoxicology*. 2017;62:248-257.
78. Patel JC, Hathaway NJ, Parobek CM, Thwai KL, Madanitsa M, Khairallah C, Kalilani-Phiri L, Mwapasa V, Massougboji A, Fievet N, Bailey JA, Ter Kuile FO, Deloron P, Engel SM, Taylor SM, Juliano JJ, Tuikue Ndam N, Meshnick SR. Increased risk of low birth weight in women with placental malaria associated with *P. falciparum* VAR2CSA clade. *Sci Rep*. 2017;7(1):7768.
79. McGinnis R, Steinhorsdottir V, Williams NO, Thorleifsson G, Shooter S, Hjartardottir S, Bumpstead S, Stefansdottir L, Hildyard L, Sigurdsson JK, Kemp JP, Silva GB, Thomsen LCV, Jääskeläinen T, Kajantie E, Chappell S, Kalsheker N, Moffett A, Hiby S, Lee WK, Padmanabhan S, Simpson NAB, Dolby VA, Staines-Urias E, Engel SM, Haugan A, Trogstad L, Svyatova G, Zakhidova N, Najmutdinova D, Dominiczak AF, Gjessing HK, Casas JP, Dudbridge F, Walker JJ, Pipkin FB, Thorsteinsdottir U, Geirsson RT, Lawlor DA, Iversen AC, Magnus P, Laivuori H, Stefansson K, Morgan L. Variants in the fetal genome near *FLT1* are associated with risk of preeclampsia. *Nat Genet*. 2017;49(8):1255-1260.

80. Kinlaw AC, Buckley JP, Engel SM, Poole C, Brookhart MA, Keil AP. Left Truncation Bias to Explain the Protective Effect of Smoking on Preeclampsia: Potential, But How Plausible? *Epidemiology*. 2017;28(3):428-434.
81. *Furlong MA, Herring A, Buckley JP, Goldman BD, Daniels JL, Engel LS, Wolff MS, Chen J, Wetmur J, Barr DB, Engel SM. Prenatal exposure to organophosphorus pesticides and childhood neurodevelopmental phenotypes. *Environ Res*. 2017;158:737-747.
82. *Furlong MA, Barr DB, Wolff MS, Engel SM. Prenatal exposure to pyrethroid pesticides and childhood behavior and executive functioning. *Neurotoxicology*. 2017;62:231-238.
83. Fejzo MS, Myhre R, Colodro-Conde L, MacGibbon KW, Sinsheimer JS, Reddy M, Pajukanta P, Nyholt DR, Wright MJ, Martin NG, Engel SM, Medland SE, Magnus P, Mullin PM. Genetic analysis of hyperemesis gravidarum reveals association with intracellular calcium release channel (RYR2). *Mol Cell Endocrinol*. 2017;439:308-316.
84. Eudy AM, Siega-Riz AM, Engel SM, Franceschini N, Howard AG, Clowse ME, Petri M. Gestational weight gain in women with systemic lupus erythematosus. *Lupus*. 2017;26(6):623-632.
85. *Doherty BT, Engel SM, Buckley JP, Silva MJ, Calafat AM, Wolff MS. Prenatal phthalate biomarker concentrations and performance on the Bayley Scales of Infant Development-II in a population of young urban children. *Environ Res*. 2017;152:51-58.
86. *Buckley JP, Doherty BT, Keil AP, Engel SM. Statistical Approaches for Estimating Sex-Specific Effects in Endocrine Disruptors Research. *Environ Health Perspect*. 2017;125(6):067013.
87. Anderson C, Engel SM, Weaver MA, Zevallos JP, Nichols HB. Birth rates after radioactive iodine treatment for differentiated thyroid cancer. *Int J Cancer*. 2017;141(11):2291-2295.
88. Anderson C, Engel SM, Mersereau JE, Black KZ, Wood WA, Anders CK, Nichols HB. Birth Outcomes Among Adolescent and Young Adult Cancer Survivors. *JAMA Oncol*. 2017;3(8):1078-1084.
89. Mazul AL, Siega-Riz AM, Weinberg CR, Engel SM, Zou F, Carrier KS, Basta PV, Vaksman Z, Maris JM, Diskin SJ, Maxen C, Naranjo A, Olshan AF. A family-based study of gene variants and maternal folate and choline in neuroblastoma: a report from the Children's Oncology Group. *Cancer Causes Control*. 2016;27(10):1209-1218.
90. He Q, Cai T, Liu Y, Zhao N, Harmon QE, Almlı LM, Binder EB, Engel SM, Ressler KJ, Conneely KN, Lin X, Wu MC. Prioritizing individual genetic variants after kernel machine testing using variable selection. *Genet Epidemiol*. 2016;40(8):722-731.
91. Harley KG, Engel SM, Vedar MG, Eskenazi B, Whyatt RM, Lanphear BP, Bradman A, Rauh VA, Yolton K, Hornung RW, Wetmur JG, Chen J, Holland NT, Barr DB, Perera FP, Wolff MS. Prenatal Exposure to Organophosphorous Pesticides and Fetal Growth: Pooled Results from Four Longitudinal Birth Cohort Studies. *Environ Health Perspect*. 2016;124(7):1084-1092.

92. Grabich SC, Robinson WR, Engel SM, Konrad CE, Richardson DB, Horney JA. Hurricane Charley Exposure and Hazard of Preterm Delivery, Florida 2004. *Matern Child Health J*. 2016;20(12):2474-2482.
93. Engel SM, Bradman A, Wolff MS, Rauh VA, Harley KG, Yang JH, Hoepner LA, Barr DB, Yolton K, Vedar MG, Xu Y, Hornung RW, Wetmur JG, Chen J, Holland NT, Perera FP, Whyatt RM, Lanphear BP, Eskenazi B. Prenatal Organophosphorus Pesticide Exposure and Child Neurodevelopment at 24 Months: An Analysis of Four Birth Cohorts. *Environ Health Perspect*. 2016;124(6):822-830.
94. Calafat AM, Longnecker MP, Koch HM, Swan SH, Hauser R, Goldman LR, Lanphear BP, Rudel RA, Engel SM, Teitelbaum SL, Whyatt RM, Wolff MS. Response to "Comment on 'Optimal Exposure Biomarkers for Nonpersistent Chemicals in Environmental Epidemiology'". *Environ Health Perspect*. 2016;124(4):A66-67.
95. *Buckley JP, Herring AH, Wolff MS, Calafat AM, Engel SM. Prenatal exposure to environmental phenols and childhood fat mass in the Mount Sinai Children's Environmental Health Study. *Environ Int*. 2016;91:350-356.
96. *Buckley JP, Engel SM, Mendez MA, Richardson DB, Daniels JL, Calafat AM, Wolff MS, Herring AH. Prenatal Phthalate Exposures and Childhood Fat Mass in a New York City Cohort. *Environ Health Perspect*. 2016;124(4):507-513.
97. *Buckley JP, Engel SM, Braun JM, Whyatt RM, Daniels JL, Mendez MA, Richardson DB, Xu Y, Calafat AM, Wolff MS, Lanphear BP, Herring AH, Rundle AG. Prenatal Phthalate Exposures and Body Mass Index Among 4- to 7-Year-old Children: A Pooled Analysis. *Epidemiology*. 2016;27(3):449-458.
98. Bennett D, Bellinger DC, Birnbaum LS, Bradman A, Chen A, Cory-Slechta DA, Engel SM, Fallin MD, Halladay A, Hauser R, Hertz-Picciotto I, Kwiatkowski CF, Lanphear BP, Marquez E, Marty M, McPartland J, Newschaffer CJ, Payne-Sturges D, Patisaul HB, Perera FP, Ritz B, Sass J, Schantz SL, Webster TF, Whyatt RM, Woodruff TJ, Zoeller RT, Anderko L, Campbell C, Conry JA, DeNicola N, Gould RM, Hirtz D, Huffling K, Landrigan PJ, Lavin A, Miller M, Mitchell MA, Rubin L, Schettler T, Tran HL, Acosta A, Brody C, Miller E, Miller P, Swanson M, Witherspoon NO. Project TENDR: Targeting Environmental Neuro-Developmental Risks The TENDR Consensus Statement. *Environ Health Perspect*. 2016;124(7):A118-122.
99. Harmon QE, Huang L, Umbach DM, Klungsoyr K, Engel SM, Magnus P, Skjærven R, Zhang J, Wilcox AJ. Risk of fetal death with preeclampsia. *Obstet Gynecol*. 2015;125(3):628-635.
100. *Guidry VT, Longnecker MP, Aase H, Eggesbø M, Zeiner P, Reichborn-Kjennerud T, Knudsen GP, Bertelsen RJ, Ye X, Calafat AM, Engel SM. Measurement of Total and Free Urinary Phenol and Paraben Concentrations over the Course of Pregnancy: Assessing Reliability and Contamination of Specimens in the Norwegian Mother and Child Cohort Study. *Environ Health Perspect*. 2015;123(7):705-711.

101. Grabich SC, Robinson WR, Engel SM, Konrad CE, Richardson DB, Horney JA. County-level hurricane exposure and birth rates: application of difference-in-differences analysis for confounding control. *Emerg Themes Epidemiol.* 2015;12:19.
102. Calafat AM, Longnecker MP, Koch HM, Swan SH, Hauser R, Goldman LR, Lanphear BP, Rudel RA, Engel SM, Teitelbaum SL, Whyatt RM, Wolff MS. Optimal Exposure Biomarkers for Nonpersistent Chemicals in Environmental Epidemiology. *Environ Health Perspect.* 2015;123(7):A166-168.
103. *Starling AP, Engel SM, Whitworth KW, Richardson DB, Stuebe AM, Daniels JL, Haug LS, Eggesbø M, Becher G, Sabaredzovic A, Thomsen C, Wilson RE, Travlos GS, Hoppin JA, Baird DD, Longnecker MP. Perfluoroalkyl substances and lipid concentrations in plasma during pregnancy among women in the Norwegian Mother and Child Cohort Study. *Environ Int.* 2014;62:104-112.
104. *Starling AP, Engel SM, Richardson DB, Baird DD, Haug LS, Stuebe AM, Klungsøyr K, Harmon Q, Becher G, Thomsen C, Sabaredzovic A, Eggesbø M, Hoppin JA, Travlos GS, Wilson RE, Trogstad LI, Magnus P, Longnecker MP. Perfluoroalkyl substances during pregnancy and validated preeclampsia among nulliparous women in the Norwegian Mother and Child Cohort Study. *Am J Epidemiol.* 2014;179(7):824-833.
105. Savitz DA, Danilack VA, Engel SM, Elston B, Lipkind HS. Descriptive epidemiology of chronic hypertension, gestational hypertension, and preeclampsia in New York State, 1995-2004. *Matern Child Health J.* 2014;18(4):829-838.
106. Klungsøyr K, Harmon QE, Skard LB, Simonsen I, Austvoll ET, Alsaker ER, Starling A, Trogstad L, Magnus P, Engel SM. Validity of pre-eclampsia registration in the medical birth registry of Norway for women participating in the Norwegian mother and child cohort study, 1999-2010. *Paediatr Perinat Epidemiol.* 2014;28(5):362-371.
107. Hillesund ER, Øverby NC, Engel SM, Klungsøyr K, Harmon QE, Haugen M, Bere E. Associations of adherence to the New Nordic Diet with risk of preeclampsia and preterm delivery in the Norwegian Mother and Child Cohort Study (MoBa). *Eur J Epidemiol.* 2014;29(10):753-765.
108. *Harmon QE, Engel SM, Wu MC, Moran TM, Luo J, Stuebe AM, Avery CL, Olshan AF. Polymorphisms in inflammatory genes are associated with term small for gestational age and preeclampsia. *Am J Reprod Immunol.* 2014;71(5):472-484.
109. *Furlong MA, Engel SM, Barr DB, Wolff MS. Prenatal exposure to organophosphate pesticides and reciprocal social behavior in childhood. *Environ Int.* 2014;70:125-131.
110. Engel SM, Joubert BR, Wu MC, Olshan AF, Håberg SE, Ueland PM, Nystad W, Nilsen RM, Vollset SE, Peddada SD, London SJ. Neonatal genome-wide methylation patterns in relation to birth weight in the Norwegian Mother and Child Cohort. *Am J Epidemiol.* 2014;179(7):834-842.
111. Engel LS, Buckley JP, Yang G, Liao LM, Satagopan J, Calafat AM, Matthews CE, Cai Q, Ji BT, Cai H, Engel SM, Wolff MS, Rothman N, Zheng W, Xiang YB, Shu XO, Gao YT, Chow WH.

Predictors and variability of repeat measurements of urinary phenols and parabens in a cohort of Shanghai women and men. *Environ Health Perspect.* 2014;122(7):733-740.

112. Bertelsen RJ, Engel SM, Jusko TA, Calafat AM, Hoppin JA, London SJ, Eggesbø M, Aase H, Zeiner P, Reichborn-Kjennerud T, Knudsen GP, Guidry VT, Longnecker MP. Reliability of triclosan measures in repeated urine samples from Norwegian pregnant women. *J Expo Sci Environ Epidemiol.* 2014;24(5):517-521.
113. Wu MC, Maity A, Lee S, Simmons EM, Harmon QE, Lin X, Engel SM, Mollndrem JJ, Armistead PM. Kernel machine SNP-set testing under multiple candidate kernels. *Genet Epidemiol.* 2013;37(3):267-275.
114. Philippat C, Wolff MS, Calafat AM, Ye X, Bausell R, Meadows M, Stone J, Slama R, Engel SM. Prenatal exposure to environmental phenols: concentrations in amniotic fluid and variability in urinary concentrations during pregnancy. *Environ Health Perspect.* 2013;121(10):1225-1231.
115. *Harmon QE, Engel SM, Olshan AF, Moran T, Stuebe AM, Luo J, Wu MC, Avery CL. Association of polymorphisms in natural killer cell-related genes with preterm birth. *Am J Epidemiol.* 2013;178(8):1208-1218.
116. Engel SM, Wolff MS. Causal inference considerations for endocrine disruptor research in children's health. *Annu Rev Public Health.* 2013;34:139-158.
117. Engel SM, Scher E, Wallenstein S, Savitz DA, Alsaker ER, Trogstad L, Magnus P. Maternal active and passive smoking and hypertensive disorders of pregnancy: risk with trimester-specific exposures. *Epidemiology.* 2013;24(3):379-386.
118. Barría MI, Garrido JL, Stein C, Scher E, Ge Y, Engel SM, Kraus TA, Banach D, Moran TM. Localized mucosal response to intranasal live attenuated influenza vaccine in adults. *J Infect Dis.* 2013;207(1):115-124.
119. Stein CR, Wolff MS, Calafat AM, Kato K, Engel SM. Comparison of polyfluoroalkyl compound concentrations in maternal serum and amniotic fluid: a pilot study. *Reprod Toxicol.* 2012;34(3):312-316.
120. Sperling RS, Engel SM, Wallenstein S, Kraus TA, Garrido J, Singh T, Kellerman L, Moran TM. Immunogenicity of trivalent inactivated influenza vaccination received during pregnancy or postpartum. *Obstet Gynecol.* 2012;119(3):631-639.
121. Miodovnik A, Diplas AI, Chen J, Zhu C, Engel SM, Wolff MS. Polymorphisms in the maternal sex steroid pathway are associated with behavior problems in male offspring. *Psychiatr Genet.* 2012;22(3):115-122
122. Kraus TA, Engel SM, Sperling RS, Kellerman L, Lo Y, Wallenstein S, Escribese MM, Garrido JL, Singh T, Loubeau M, Moran TM. Characterizing the pregnancy immune phenotype: results of the viral immunity and pregnancy (VIP) study. *J Clin Immunol.* 2012;32(2):300-311.

123. Gong J, Savitz DA, Stein CR, Engel SM. Maternal ethnicity and pre-eclampsia in New York City, 1995-2003. *Paediatr Perinat Epidemiol*. 2012;26(1):45-52.
124. Cupul-Uicab LA, Skjaerven R, Haug K, Melve KK, Engel SM, Longnecker MP. In utero exposure to maternal tobacco smoke and subsequent obesity, hypertension, and gestational diabetes among women in the MoBa cohort. *Environ Health Perspect*. 2012;120(3):355-360.
125. *Miodovnik A, Engel SM, Zhu C, Ye X, Soorya LV, Silva MJ, Calafat AM, Wolff MS. Endocrine disruptors and childhood social impairment. *Neurotoxicology*. 2011;32(2):261-267.
126. La Merrill M, Stein CR, Landrigan P, Engel SM, Savitz DA. Prepregnancy body mass index, smoking during pregnancy, and infant birth weight. *Ann Epidemiol*. 2011;21(6):413-420.
127. Escribese MM, Rodríguez-García M, Sperling R, Engel SM, Gallart T, Moran TM. Alpha-defensins 1-3 release by dendritic cells is reduced by estrogen. *Reprod Biol Endocrinol*. 2011;9:118.
128. Engel SM, Wetmur J, Chen J, Zhu C, Barr DB, Canfield RL, Wolff MS. Prenatal exposure to organophosphates, paraoxonase 1, and cognitive development in childhood. *Environ Health Perspect*. 2011;119(8):1182-1188.
129. Engel SM, Daniels JL. On the complex relationship between genes and environment in the etiology of autism. *Epidemiology*. 2011;22(4):486-488.
130. Kraus TA, Sperling RS, Engel SM, Lo Y, Kellerman L, Singh T, Loubeau M, Ge Y, Garrido JL, Rodríguez-García M, Moran TM. Peripheral blood cytokine profiling during pregnancy and post-partum periods. *Am J Reprod Immunol*. 2010;64(6):411-426.
131. Engel SM, Miodovnik A, Canfield RL, Zhu C, Silva MJ, Calafat AM, Wolff MS. Prenatal phthalate exposure is associated with childhood behavior and executive functioning. *Environ Health Perspect*. 2010;118(4):565-571.
132. Stein CR, Savitz DA, Janevic T, Ananth CV, Kaufman JS, Herring AH, Engel SM. Maternal ethnic ancestry and adverse perinatal outcomes in New York City. *Am J Obstet Gynecol*. 2009;201(6):584.e581-589.
133. Engel SM, Zhu C, Berkowitz GS, Calafat AM, Silva MJ, Miodovnik A, Wolff MS. Prenatal phthalate exposure and performance on the Neonatal Behavioral Assessment Scale in a multiethnic birth cohort. *Neurotoxicology*. 2009;30(4):522-528.
134. Engel SM, Janevic TM, Stein CR, Savitz DA. Maternal smoking, preeclampsia, and infant health outcomes in New York City, 1995-2003. *Am J Epidemiol*. 2009;169(1):33-40.
135. Wolff MS, Engel SM, Berkowitz GS, Ye X, Silva MJ, Zhu C, Wetmur J, Calafat AM. Prenatal phenol and phthalate exposures and birth outcomes. *Environ Health Perspect*. 2008;116(8):1092-1097.

136. Savitz DA, Janevic TM, Engel SM, Kaufman JS, Herring AH. Ethnicity and gestational diabetes in New York City, 1995-2003. *Bjog*. 2008;115(8):969-978.
137. Landrigan PJ, Forman J, Galvez M, Newman B, Engel SM, Chemtob C. Impact of September 11 World Trade Center disaster on children and pregnant women. *Mt Sinai J Med*. 2008;75(2):129-134.
138. Dunson DB, Herring AH, Engel SM. Bayesian Selection and Clustering of Polymorphisms in Functionally-Related Genes. *Journal of the American Statistical Association*. 2008;203(482):534-546.
139. Wolff MS, Engel S, Berkowitz G, Teitelbaum S, Siskind J, Barr DB, Wetmur J. Prenatal pesticide and PCB exposures and birth outcomes. *Pediatr Res*. 2007;61(2):243-250.
140. Engel SM, Berkowitz GS, Barr DB, Teitelbaum SL, Siskind J, Meisel SJ, Wetmur JG, Wolff MS. Prenatal organophosphate metabolite and organochlorine levels and performance on the Brazelton Neonatal Behavioral Assessment Scale in a multiethnic pregnancy cohort. *Am J Epidemiol*. 2007;165(12):1397-1404.
141. Belogolovkin V, Engel SM, Ferrara L, Eddleman KA, Stone JL. Does sonographic determination of placental location predict fetal birth weight in diamniotic-dichorionic twins? *J Ultrasound Med*. 2007;26(2):187-191.
142. Erichsen HC, Engel SA, Eck PK, Welch R, Yeager M, Levine M, Siega-Riz AM, Olshan AF, Chanock SJ. Genetic variation in the sodium-dependent vitamin C transporters, SLC23A1, and SLC23A2 and risk for preterm delivery. *Am J Epidemiol*. 2006;163(3):245-254.
143. Engel SM, Olshan AF, Siega-Riz AM, Savitz DA, Chanock SJ. Polymorphisms in folate metabolizing genes and risk for spontaneous preterm and small-for-gestational age birth. *Am J Obstet Gynecol*. 2006;195(5):1231.e1231-1211.
144. Engel SM, Levy B, Liu Z, Kaplan D, Wolff MS. Xenobiotic phenols in early pregnancy amniotic fluid. *Reprod Toxicol*. 2006;21(1):110-112.
145. Brand SR, Engel SM, Canfield RL, Yehuda R. The effect of maternal PTSD following in utero trauma exposure on behavior and temperament in the 9-month-old infant. *Ann N Y Acad Sci*. 2006;1071:454-458.
146. Yehuda R, Engel SM, Brand SR, Seckl J, Marcus SM, Berkowitz GS. Transgenerational effects of posttraumatic stress disorder in babies of mothers exposed to the World Trade Center attacks during pregnancy. *J Clin Endocrinol Metab*. 2005;90(7):4115-4118.
147. Engel SM, Berkowitz GS, Wolff MS, Yehuda R. Psychological trauma associated with the World Trade Center attacks and its effect on pregnancy outcome. *Paediatr Perinat Epidemiol*. 2005;19(5):334-341.

148. Engel SA, Olshan AF, Savitz DA, Thorp J, Erichsen HC, Chanock SJ. Risk of small-for-gestational age is associated with common anti-inflammatory cytokine polymorphisms. *Epidemiology*. 2005;16(4):478-486.
149. Engel SA, Erichsen HC, Savitz DA, Thorp J, Chanock SJ, Olshan AF. Risk of spontaneous preterm birth is associated with common proinflammatory cytokine polymorphisms. *Epidemiology*. 2005;16(4):469-477.
150. Mulherin SA, O'Brien TR, Ioannidis JP, Goedert JJ, Buchbinder SP, Coutinho RA, Jamieson BD, Meyer L, Michael NL, Pantaleo G, Rizzardi GP, Schuitemaker H, Sheppard HW, Theodorou ID, Vlahov D, Rosenberg PS. Effects of CCR5-Delta32 and CCR2-64I alleles on HIV-1 disease progression: the protection varies with duration of infection. *Aids*. 2003;17(3):377-387.
151. Mulherin SA, Miller WC. Spectrum bias or spectrum effect? Subgroup variation in diagnostic test evaluation. *Ann Intern Med*. 2002;137(7):598-602.
152. Mulherin S, Rickman LS, Jackson MM. Initial worker evaluation of a new safety syringe. *Infect Control Hosp Epidemiol*. 1996;17(9):593-594.

(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)

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 Developmental Diseases Translation Research group.

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

U01 DA055344 (Lin, Grewen, 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) Total Directs: \$275,000 NIH/NIEHS “Advanced Reproductive Age and Environmental Health” Role: Principal Investigator	06/01/2006 – 05/31/2010	1.2 CM
Mount Sinai School of Medicine CIVIA Pilot (Stein) Total Directs: \$20,000 “Viral Immunity in Influenza Infected Adults” Role: Co- Investigator	09/01/2008 – 08/31/2009	0 CM
Mount Sinai School of Medicine Pilot Award (Engel, Stein) Total Directs: \$19,870 “A Pilot Exposure Assessment Using Newly Identified Biomarkers” Role: Principal Investigator (MPI)	11/01/2008 – 10/31/2009	0 CM
R21HD050739 (Savitz) NIH/NICHD Total Directs: \$275,000 “Ethnicity and Pregnancy Outcomes in New York City” Role: Co-Investigator	01/01/2006 – 06/30/2007	1.2 CM
Mount Sinai School of Medicine Pilot Award (Engel) Total Directs: \$15,000 “A Pilot Investigation of in utero Bisphenol A Exposure and Birth Outcomes” Role: Principal Investigator	08/01/2004 – 07/31/2005	0 CM
R8208270 (Wolff) EPA Total Directs: \$748,512 “Markers of Individual Susceptibility and Outcome Related to Fetal and Infant Growth and Development” Role: Co-Investigator	08/01/2002 – 07/31/2005	3 CM

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.
7. *AE Bauer, SM Engel, M Shi, CR Weinberg, CL Avery, AF Olshan, Q Harmon, T Manuck, K Klyngsøyr, L Trogstad, P Magnus. Maternal and Child Polymorphisms in Nitric Oxide and Carbon Monoxide Signaling Pathways and Preeclampsia in the Norwegian Mother and Child Cohort. Oral presentation at the Society for Perinatal and Pediatric Epidemiologic Research Annual Meeting. June 21, 2016. Miami, FL.
8. Eudy AM, Siega-Riz AM, Engel S, Franceschini N, Howard AG, Clowse MEB, Petri M. Effect of pregnancy on disease flares in patients with systemic lupus erythematosus. *Arthritis and rheumatism*. 2016;68(Suppl 10). Presented at American College of Rheumatology (ACR) Annual Meeting, Washington, DC, November 11-16, 2016 (oral presentation)
9. Eudy A, Siega-Riz AM, Engel S, Franceschini N, Howard AG, Clowse M, Petri M. Association of pre-pregnancy body mass index with preterm birth and birthweight percentiles in systemic lupus erythematosus. *Annals of the rheumatic diseases* 2015;74(Suppl 2). Presented at European League Against Rheumatism (EULAR) Annual Congress 2015, Rome, Italy, June 10-13, 2015 (poster presentation)
10. *Buckley JP, Engel SM, Herring AH. Assessing nonignorable loss to follow-up in a longitudinal birth cohort study of body fat in childhood. 28th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research. Denver, Colorado. June 2015.
11. *Buckley JP, Engel SM, Herring AH, Mendez MA, Richardson DB, Calafat AM, Wolff MS. Prenatal phthalate exposure and fat mass in childhood: examining the obesogen hypothesis. Society for Epidemiologic Research Annual Meeting. Seattle, Washington. June 2014.
12. *Buckley JP, Engel SM, Herring AH, Braun JM, Whyatt RM, Daniels JL, Mendez MA, Richardson DB, Calafat AM, Lanphear BP, Wolff MS, Rundle AG. *Prenatal phthalate exposures and childhood body mass index in three Children's Environmental Health Center cohorts*. 26th Annual Conference of the International Society for Environmental Epidemiology. Seattle, Washington. August 2014. *Environmental Health Perspectives*; <http://dx.doi.org/10.1289/ehp.isee2014>. Abstract P3-635.
13. *A Bauer, S Engel, L Trogstad, P Magnus. Caffeine consumption, smoking, and preeclampsia in the Norwegian Mother and Child Cohort. Poster presentation at the Society for Perinatal and Pediatric Epidemiologic Research Annual Meeting. June 17-18, 2013. Boston, MA.

14. *Starling AP, Engel SM, Richardson DB, Daniels JL, Stuebe AM, Haug LS, Klungsøyr K, Harmon Q, Skjaerven R, Eggesbø M, Longnecker MP. “Perfluoroalkyl substances in mid-pregnancy and preeclampsia in the Norwegian Mother and Child Cohort Study” ISEE 2013.
15. *Furlong M, Engel SM, Calafat AM, Wolff MS. “Prenatal Exposure to Organophosphate Pesticides and Scores on the Social Responsiveness Scale at 7-9 years”. SER 2013.
16. Bertelsen RJ, Engel SM, Jusko TA, Calafat AM, Hoppin JA, London SJ, Eggesbø MÅ, Aase H, Zeiner P, Reichborn-Kjennerud T, Guidry VT, Longnecker MP. “Reliability of triclosan in repeated urine samples from Norwegian women” ISEE 2013
17. *QE Harmon, SM Engel, M Wu, A Stuebe, CL Avery. “Applying Inverse Probability Weighting to Estimate Risk Ratios when Genotyping Data are Available in a Subset” SER Minneapolis, MN, 2012
18. *QE Harmon, SM Engel, M Wu, A Stuebe, CL Avery, T Moran, J Luo, AF Olshan. “Polymorphisms in genes associated with natural killer cells are associated with preterm birth.” SPER Minneapolis, MN, 2012
19. *QE Harmon, SM Engel, M Wu, A Stuebe, CL Avery, T Moran, J Luo, AF Olshan. “Polymorphisms in genes associated with natural killer cells are associated with preterm birth.” SER Minneapolis, MN, June 2012
20. *Werder E, Engel SM, Calafat AM, Silva M, Wolff MS. “Prenatal Phthalate Exposure and Psychometric Intelligence at 6-9 years of age” International Society of Environmental Epidemiology 2012. Columbia, South Carolina 2012.
21. *Philippat C, Wolff MS, Calafat AM, Ye X, Slama R, Engel SM. “Amniotic Fluid Transfer and Temporal Stability in Phenol Exposure During Pregnancy.” International Society of Environmental Epidemiology. Columbia, South Carolina 2012.
22. *Bauer AE, Engel SM. “Associations of television viewing, sleep duration, and behavioral outcomes among pre-school and school-aged children”. SPER, Minneapolis, MN, June 2012.
23. Stein CR, Wolff MS, Calafat SM, Engel SM. “Comparison of Polyfluoroalkyl Compound Concentrations in Maternal Serum and Amniotic Fluid: A Pilot Study. PPTOX-III. Paris, France 2012.
24. Deardorff J, Engel SM, Ekwaru P, Windham G, Pinney S, et al. “Childhood Phenol Exposures and Girls’ Behavioral and Emotional Outcomes.” International Society of Environmental Epidemiology, Columbia, South Carolina 2012.
25. Stein CR; Engel SM; Calafat AM. “Comparison of Perfluorinated Compounds Concentrations in Maternal Serum and Amniotic Fluid”. International Society of Environmental Epidemiology, Barcelona, Spain, September 2011

26. *Buckley J, Engel SM, Wolff MS, Teitelbaum S, Calafat AM “Prenatal Phthalate Exposure and Childhood Wheezing in a Multiethnic Cohort” ” International Society of Environmental Epidemiology, Barcelona, Spain (oral presentation of primary mentee) , September 2011
27. Engel SM, Wolff MS, Calafat AM, Diplas AI, Silva MJ, Lambertini L, Bausell R, Meadows M, Lee M, Sperling RS, Wetmur J, Chen J. Correlations of Urinary and Amniotic Fluid Phthalate Metabolite Concentrations and Expression of Imprinted Genes in Human Placenta. International Society of Environmental Epidemiology, Dublin, Ireland, August 25 – 29, 2009
28. Engel SM, A Miodovnik, RL Canfield, C Zhu, A Calafat, M Silva, MS Wolff. Prenatal Exposure to Low Molecular Weight Phthalates and ADHD-like Behaviors in Childhood. Society for Pediatric and Perinatal Epidemiologic Research, Anaheim, California, June 22–23, 2009
29. Engel SM, Miodovnik A, Zhu C, Calafat AM, Silva MJ, Wolff MS. Prenatal Phthalate Exposure is Associated with Childhood Behaviors Common to both ADHD and Conduct Disorder. Pediatric Academic Societies’ May 2-5, 2009
30. *Miodovnik A, Wolff MS, Calafat AM, Silva MJ, Engel SM. Prenatal Exposure to Low Molecular Weight Phthalates and Autistic Social Impairment International Society of Environmental Epidemiology, Dublin, Ireland, August 25 – 29, 2009 (oral presentation of primary mentee)
31. Stein CR, Chen J, Diplas A, Lambertini L, Teitelbaum SL, Wetmur J, Wolff MS, Engel SM. Prenatal phenol exposure and expression of imprinted genes in placenta. Poster presentation at the 22st Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Anaheim, California, June 22–23, 2009
32. Stein CR, Chen J, Diplas AI, Lambertini L, Calafat A, Ye X, Teitelbaum SL, Wetmur J, Wolff MS, Sperling R, Lee M, Engel SM. Prenatal phenol exposure and expression of imprinted genes in human placenta. International Society of Environmental Epidemiology, Dublin, Ireland, August 25 – 29, 2009
33. Smoking during pregnancy: Methods, Trends and Consequences. Co-Chairs: Stephanie Engel and David Savitz. (Symposium Chair), Society for Epidemiological Research, Chicago, June 2008
34. Philippe Grandjean, Virginia Rauh, Stephanie Engel, Brenda Eskenazi. (Symposium Speaker), Organophosphate pesticides and neurodevelopment. Organizers: Matt Longnecker and Mary Wolff. Guest Speakers: International Society of Environmental Epidemiology 2007 Mexico City.
35. Belogolovkin V, Engel SM, Savitz D, Chelimo C, Siega-Riz AM, Sperling R. “Weight Gain Velocity in Relation to The Development of Gestational Hypertension and or Preeclampsia” Society of Maternal and Fetal Medicine, 2007.
36. Engel SM; Berkowitz GS; Barr DB; Teitelbaum S; Siskind J; Meisel S; Wolff MS. Prenatal Exposure to Organophosphates and Organochlorines and Performance on the Brazelton Neonatal Behavioral Assessment Scale. International Society of Environmental Epidemiology 2006, Paris, France (Poster)

37. Engel SM; Berkowitz GS; Barr DB; Teitelbaum S; Chelimo C; Wolff MS. Prenatal Exposure to Organophosphates and Organochlorines and Performance on the Bayley Scales of Infant Development. International Society of Environmental Epidemiology 2006, Paris, France (Poster)
38. Wolff M, Eskenazi B, Whyatt R, Engel SM, Harley K, Bradman A, Perera F, V Rauh, D Barr. Environmental exposures and birth outcomes in the NIEHS/EPA Children's Center Birth Cohorts. International Society of Environmental Epidemiology, 2006 (Presentation Contributor)
39. Eskenazi B, Harley K, Bradman A, Fenster L, Wolff MS, Engel SM, Rauh V, Whyatt R, Perera F. In utero Pesticide Exposure and Neurodevelopment in Three NIEHS/EPA Children's Center Birth Cohorts. International Society of Environmental Epidemiology, 2006. (Presentation Contributor)
40. Engel SM, Olshan AF, Siega-Riz AM, Savitz DA, Chanock SJ "Polymorphisms in Folate Metabolizing Genes and Risk for Spontaneous Preterm and Small-for-Gestational Age Birth." Society for Pediatric and Perinatal Epidemiological Research 2006, Seattle, WA (Poster)
41. Belogolovkin V, Engel S, Ferrara L, Rand L, Eddleman K, Stone JL. Does Placental Location Affect Fetal Birth-Weight in Diamniotic Dichorionic Twins? Poster, The Society for Maternal-Fetal Medicine, 2006 (Poster)
42. Hans Christian Erichsen, Stephanie Mulherin Engel, Peter K. Eck, Robert Welch, Meredith Yeager, Mark Levine, Anna Maria Siega-Riz, Andrew F. Olshan, Stephen J. Chanock, "Vitamin C Receptor Polymorphisms and Risk of Spontaneous Preterm Birth" Pediatric Academic Societies, May 2005, Washington DC (Poster)
43. Engel SA, Erichsen HC, Savitz DA, Thorp J, Chanock SJ, Olshan "Pro-Inflammatory Cytokine Polymorphisms and Risk of Small-for-Gestational Age or Spontaneous Preterm Birth". American Journal of Epidemiology 2004;(11)S1-S108. Society for Epidemiological Research 2004
44. Engel SA, Erichsen HC, Savitz DA, Thorp J, Chanock SJ, Olshan "Pro-Inflammatory Cytokine Polymorphisms and Risk of Small-for-Gestational Age or Spontaneous Preterm Birth". Society for Paediatric and Perinatal Epidemiology, 2004
45. Engel SA, Olshan AF, Savitz DA, Thorp J, Erichsen HC, Chanock SJ "Anti-Inflammatory Cytokine Polymorphisms and Risk of Small-for-Gestational Age or Spontaneous Preterm Birth". American Journal of Epidemiology 2004;(11)S1-S108. Society for Epidemiological Research 2004
46. Engel SA, Olshan AF, Savitz DA, Thorp J, Erichsen HC, Chanock SJ "Anti-Inflammatory Cytokine Polymorphisms and Risk of Small-for-Gestational Age or Spontaneous Preterm Birth". Society for Paediatric and Perinatal Epidemiology, 2004
47. Mulherin SA, O'Brien TR, Ioannidis JPA, Goedert JJ, Buchbinder SP, Coutinho RA, Jamieson BD, Meyer L, Michael NL, Pantaleo G, Rizzardi GP, Schuitemaker H, Sheppard HW, Theodorou ID, Vlahov D, Rosenberg PS "Effects of CCR5-Δ32 and CCR2-64I alleles on HIV-1 disease

progression: The protection varies with duration of infection." Society for Epidemiological Research 2002

SOCIETY MEMBERSHIPS

Society for Pediatric and Perinatal Epidemiologic Research
Society for Epidemiologic Research
International Society for Environmental Epidemiology