

## **Catherine Metayer, MD, PhD**

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### CREDENTIAL

**1996** PhD, Epidemiology, Tulane School of Public Health, New Orleans, Louisiana  
**1991** MD, Primary Care Medicine, University of Bordeaux II, France  
**1981** Baccalauréat (equivalent to BS), Mathematics, Bordeaux, France

### ACADEMIC EXPERIENCE

**2010-present** Associate Adjunct Professor, University of California, School of Public Health, Division of Epidemiology/Biostatistics, Berkeley, CA. Instructor, Epidemiology of Neoplastic Diseases. Mentor graduate students in Epidemiology program  
**2008-2010** Assistant Adjunct Professor, University of California, School of Public Health, Division of Epidemiology/Biostatistics, Berkeley, CA. Co-Instructor, Epidemiology of Neoplastic Diseases. Mentor graduate students in Epidemiology program  
**1992-1995** Teaching Assistant, Epidemiology and Biostatistics, Tulane School of Public Health and Tropical Medicine, New Orleans, LA

### RESEARCH EXPERIENCE

◦ *Since 2002, my research is conducted at the University of California, School of Public Health, Berkeley, Division of Epidemiology and Biostatistics, CA, and focuses on environmental and genetic risk factors of leukemia and solid tumors in children and adolescents (Design epidemiologic studies and seek research funding, supervise field activities and conduct statistical analyses).*

**2013-present** Director (Principal Investigator), and Project Leader, Center for Integrative Research on Childhood Leukemia and the Environment  
**2013-present** Director (Principal Investigator), the California Childhood Leukemia Study  
**2013-present** Chair, the Childhood Leukemia International Consortium  
**2009-present** Principal Investigator & co-Investigator, the Childhood Cancer Record Linkage Project  
**2009-2013** Co-Director & co-Investigator at the Center for Integrative Research on Childhood Leukemia and the Environment  
**2003-2013** Co-Director, the California Childhood Leukemia Study

◦ *From 1997 to 2002, my research was conducted at the National Cancer Institute, Division of Cancer Epidemiology and Genetics, Radiation Epidemiology Branch, Rockville, MD and focused on second cancers after bone marrow transplantation, as well as on lung cancer in China (Supervise field activities and conduct statistical analyses).*

**2000-2003** Consultant

**1997-2000** Visiting Associate Scientist

◦ *From 1990 to 1996, my research was conducted at various institutions in the US and France (Conduct statistical analyses).*

**1996** Fellow, National Institute for Occupational Safety and Health, Epidemiological Investigations Branch, Morgantown, WV

**1994-1996** Doctoral Student, Tulane School of Public Health and Tropical Medicine, New Orleans, LA,

**1993-1995** Research Associate, Washington DC Dilated Cardiomyopathy Study, Tulane School of Public Health and Tropical Medicine, New Orleans, LA

**1990** Medical Doctoral Student, University of Bordeaux II, France

### PROFESSIONAL EXPERIENCE

**1991-1992** General Practitioner, France

**1988-1990** Medical Resident in Pediatrics, Cancer Research, and Hematology, France

### MEMBERSHIPS, HONORS, REVIEW

#### Membership:

Ordre National des Médecins (National Society of Physicians), France

International Society for Environmental Epidemiology

International Epidemiology Association

Honors: Medical Degree, Highest Honors, University of Bordeaux II, France, 1991

Scholarship, Tulane University Graduate School, 1993

Southern Section AFCR/SSCI Trainee Award, 1995

University of California Berkeley Recognition and Reward Program Award, 2004

Reviewer for scientific journals: American Journal of Epidemiology • Environmental Research journal • International Journal of Cancer • Cancer Epidemiology • Journal of Pediatric Hematology-Oncology • Canadian Medical Association Journal • Cancer Causes and Control • Journal of Pediatric Hematology-Oncology.

Ad-hoc reviewer for grant review section at the National Cancer Institute, and abstract submission to the International Society of Paediatric Oncology

### LANGUAGE

Fluent in French and English

**PUBLICATIONS (FROM MOST RECENT)**

**Metayer C**, Petridou E, Mejía Aranguré JM, Roman E. et al Parental Tobacco Smoking and Acute Myeloid Leukemia in Children: Pooled and Meta-analyses from the Childhood Leukemia International Consortium. *Am J Epidemiol* (In Press)

Morimoto LM, McCauley K, Ma X, Wiemels JL, Chokkalingam AP, **Metayer C**. Birth weight, fetal growth, and risk of pediatric rhabdomyosarcoma: an updated record linkage study in California. *Ann Epidemiol*. 2015 Dec 12. [Epub ahead of print]

Gonseth S, Roy R, Houseman EA, De Smith AJ, Zhou M, Lee ST, Nusslé S, Singer AW, Wrensch MR, **Metayer C**, Wiemels JL. Periconceptional folate consumption is associated with neonatal DNA methylation modifications in neural crest regulatory and cancer development genes. *Epigenetics*. 2015 Dec 8:0. [Epub ahead of print]

de Smith AJ, Walsh KM, Hansen HM, Endicott AA, Wiencke JK, **Metayer C**, Wiemels JL. Somatic Mutation Allelic Ratio Test Using ddPCR (SMART-ddPCR): An Accurate Method for Assessment of Preferential Allelic Imbalance in Tumor DNA. *PLoS One*. 2015 Nov 17;10(11):e0143343.

Walsh KM, de Smith AJ, Hansen HM, Smirnov IV, Gonseth S, Endicott AA, Xiao J, Rice T, Fu CH, McCoy LS, Lachance DH, Eckel-Passow JE, Wiencke JK, Jenkins RB, Wrensch MR, Ma X, **Metayer C**, Wiemels JL. A Heritable Missense Polymorphism in CDKN2A Confers Strong Risk of Childhood Acute Lymphoblastic Leukemia and Is Preferentially Selected during Clonal Evolution. *Cancer Res*. 2015 Nov 15;75(22):4884-94.

Wiemels JL, de Smith AJ, Xiao J, Lee ST, Muench MO, Fomin ME, Zhou M, Hansen HM, Termuhlen A, **Metayer C**, Walsh KM. A functional polymorphism in the CEBPE gene promoter influences acute lymphoblastic leukemia risk through interaction with the hematopoietic transcription factor Ikaros. *Leukemia*. 2015 Sep 16. [Epub ahead of print]

Zachek CM, Miller MD, Hsu C, Schiffman JD, Sallan S, **Metayer C**, Dahl GV. Children's Cancer and Environmental Exposures: Professional Attitudes and Practices. *J Pediatr Hematol Oncol*. 2015 Oct;37(7):491-7.

Whitehead TP, Crispo Smith S, Park JS, Petreas MX, Rappaport SM, **Metayer C**. Concentrations of Persistent Organic Pollutants in California Children's Whole Blood and Residential Dust. *Environ Sci Technol*. 2015 Aug 4;49(15):9331-40.

Bailey HD, **Metayer C**, Milne E, Petridou ET, Infante-Rivard C, Spector LG, Clavel J, Dockerty JD, Zhang L, Armstrong BK, Rudant J, Fritschi L, Amigou A, Hatzipantelis E, Kang AY, Stiakaki E, Schüz J. Home paint exposures and risk of childhood acute lymphoblastic leukemia: findings from the Childhood Leukemia International Consortium. *Cancer Causes Control*. 2015 Sep;26(9):1257-70.

**PUBLICATIONS** (continued)

Bailey HD, Infante-Rivard C, **Metayer C**, Clavel J, Lightfoot T, Kaatsch P, Roman E, Magnani C, Spector LG, Th Petridou E, Milne E, Dockerty JD, Miligi L, Armstrong BK, Rudant J, Fritschi L, Simpson J, Zhang L, Rondelli R, Baka M, Orsi L, Moschovi M, Kang AY, Schüz J. Home pesticide exposures and risk of childhood leukemia: Findings from the childhood leukemia international consortium. *Int J Cancer*. 2015 Dec 1;137(11):2644-63.

Barrington-Trimis JL, Cockburn M, **Metayer C**, Gauderman WJ, Wiemels J, McKean-Cowdin R. Rising rates of acute lymphoblastic leukemia in Hispanic children: trends in incidence from 1992 to 2011. *Blood*. 2015 May 7;125(19):3033-4

Deziel NC, Colt JS, Kent EE, Gunier RB, Reynolds P, Booth B, **Metayer C**, Ward MH. Associations between self-reported pest treatments and pesticide concentrations in carpet dust. *Environ Health*. 2015 Mar 25;14:27.

Whitehead TP, Havel C, **Metayer C**, Benowitz NL, Jacob P 3rd. Tobacco alkaloids and tobacco-specific nitrosamines in dust from homes of smokeless tobacco users, active smokers, and nontobacco users. *Chem Res Toxicol*. 2015 May 18;28(5):1007-14.

Hsu LI, Chokkalingam AP, Briggs FB, Walsh K, Crouse V, Fu C, **Metayer C**, Wiemels JL, Barcellos LF, Buffler PA. Association of genetic variation in IKZF1, ARID5B, and CEBPE and surrogates for early-life infections with the risk of acute lymphoblastic leukemia in Hispanic children. *Cancer Causes Control*. 2015 Apr;26(4):609-19.

Whitehead TP, Ward MH, Colt JS, Dahl G, Ducore J, Reinier K, Gunier RB, Katharine Hammond S, Rappaport SM, **Metayer C**. Dust metal loadings and the risk of childhood acute lymphoblastic leukemia. *J Expo Sci Environ Epidemiol*. 2015 Nov-Dec;25(6):593-8.

Rudant J, Lightfoot T, Urayama KY, Petridou E, Dockerty JD, Magnani C, Milne E, Spector LG, Ashton LJ, Dessypris N, Kang AY, Miller M, Rondelli R, Simpson J, Stiakaki E, Orsi L, Roman E, **Metayer C**, Infante-Rivard C, Clavel J. Childhood acute lymphoblastic leukemia and indicators of early immune stimulation: a Childhood Leukemia International Consortium study. *Am J Epidemiol*. 2015 Apr 15;181(8):549-62.

Lee ST, Muench MO, Fomin ME, Xiao J, Zhou M, de Smith A, Martín-Subero JJ, Heath S, Houseman EA, Roy R, Wrensch M, Wiencke J, **Metayer C**, Wiemels JL. Epigenetic remodeling in B-cell acute lymphoblastic leukemia occurs in two tracks and employs embryonic stem cell-like signatures. *Nucleic Acids Res*. 2015 Mar 11;43(5):2590-602.

**PUBLICATIONS** (continued)

Whitehead TP, Crispo Smith S, Park JS, Petreas MX, Rappaport SM, **Metayer C**. Concentrations of persistent organic pollutants in California women's serum and residential dust. *Environ Res*. 2015 Jan;136:57-66.

Zhang L, Samad A, Pombo-de-Oliveira MS, Scelo G, Smith MT, Feusner J, Wiemels JL, **Metayer C**. Global characteristics of childhood acute promyelocytic leukemia. *Blood Rev*. 2015 Mar;29(2):101-25.

Brown FR, Whitehead TP, Park JS, **Metayer C**, Petreas MX. Levels of non-polybrominated diphenyl ether brominated flame retardants in residential house dust samples and fire station dust samples in California. *Environ Res*. 2014 Nov;135:9-14.

**Metayer C**, Milne E, Dockerty JD, Clavel J, Pombo-de-Oliveira MS, Wesseling C, Spector LG, Schüz J, Petridou E, Ezzat S, Armstrong BK, Rudant J, Koifman S, Kaatsch P, Moschovi M, Rashed WM, Selvin S, McCauley K, Hung RJ, Kang AY, Infante-Rivard C. Maternal supplementation with folic acid and other vitamins and risk of leukemia in offspring: a Childhood Leukemia International Consortium study. *Epidemiology*. 2014 Nov;25(6):811-22.

Bailey HD, Fritschi L, **Metayer C**, Infante-Rivard C, Magnani C, Petridou E, Roman E, Spector LG, Kaatsch P, Clavel J, Milne E, Dockerty JD, Glass DC, Lightfoot T, Miligi L, Rudant J, Baka M, Rondelli R, Amigou A, Simpson J, Kang AY, Moschovi M, Schüz J. Parental occupational paint exposure and risk of childhood leukemia in the offspring: findings from the Childhood Leukemia International Consortium. *Cancer Causes Control*. 2014 Oct;25(10):1351-67.

Deziel NC, Rull RP, Colt JS, Reynolds P, Whitehead TP, Gunier RB, Month SR, Taggart DR, Buffler P, Ward MH, **Metayer C**. Polycyclic aromatic hydrocarbons in residential dust and risk of childhood acute lymphoblastic leukemia. *Environ Res*. 2014 Aug;133:388-95.

Ward MH, Colt JS, Deziel NC, Whitehead TP, Reynolds P, Gunier RB, Nishioka M, Dahl GV, Rappaport SM, Buffler PA, **Metayer C**. Residential levels of polybrominated diphenyl ethers and risk of childhood acute lymphoblastic leukemia in California. *Environ Health Perspect*. 2014 Oct;122(10):1110-6.

Whitehead TP, **Metayer C**, Ward MH, Colt JS, Gunier RB, Deziel NC, Rappaport SM, Buffler PA. Persistent organic pollutants in dust from older homes: learning from lead. *Am J Public Health*. 2014 Jul;104(7):1320-6. doi: 10.2105/AJPH.2013.301835. Epub 2014 May 15. PubMed PMID: 24832145; PubMed Central PMCID: PMC4056196.

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Walsh KM, de Smith AJ, Welch TC, Smirnov I, Cunningham MJ, Ma X, Chokkalingam AP, Dahl GV, Roberts W, Barcellos LF, Buffler PA, **Metayer C**, Wiemels JL. Genomic ancestry and somatic alterations correlate with age at diagnosis in Hispanic children with B-cell acute lymphoblastic leukemia. *Am J Hematol*. 2014 Jul;89(7):721-5.

Bailey HD, Fritschi L, Infante-Rivard C, Glass DC, Miligi L, Dockerty JD, Lightfoot T, Clavel J, Roman E, Spector LG, Kaatsch P, **Metayer C**, Magnani C, Milne E, Polychronopoulou S, Simpson J, Rudant J, Sidi V, Rondelli R, Orsi L, Kang AY, Petridou E, Schüz J. Parental occupational pesticide exposure and the risk of childhood leukemia in the offspring: findings from the childhood leukemia international consortium. *Int J Cancer*. 2014 Nov 1;135(9):2157-72.

Slusky DA, Does M, **Metayer C**, Mezei G, Selvin S, Buffler PA. Potential role of selection bias in the association between childhood leukemia and residential magnetic fields exposure: a population-based assessment. *Cancer Epidemiol*. 2014 Jun;38(3):307-13.

Francis SS, Selvin S, **Metayer C**, Wallace AD, Crouse V, Moore TB, Wiemels JL, Buffler PA. Mode of delivery and risk of childhood leukemia. *Cancer Epidemiol Biomarkers Prev*. 2014 May;23(5):876-81.

de Smith AJ, Walsh KM, Ladner MB, Zhang S, Xiao C, Cohen F, Moore TB, Chokkalingam AP, **Metayer C**, Buffler PA, Trachtenberg EA, Wiemels JL. The role of KIR genes and their cognate HLA class I ligands in childhood acute lymphoblastic leukemia. *Blood*. 2014 Apr 17;123(16):2497-503.

Whitehead TP, Brown FR, **Metayer C**, Park JS, Does M, Dhaliwal J, Petreas MX, Buffler PA, Rappaport SM. Polychlorinated biphenyls in residential dust: sources of variability. *Environ Sci Technol*. 2014;48(1):157-64.

Walsh KM, de Smith AJ, Chokkalingam AP, **Metayer C**, Roberts W, Barcellos LF, Wiemels JL, Buffler PA. GATA3 risk alleles are associated with ancestral components in Hispanic children with ALL. *Blood*. 2013 Nov 7;122(19):3385-7.

Urayama KY, Chokkalingam AP, **Metayer C**, Hansen H, May S, Ramsay P, Wiemels JL, Wiencke JK, Trachtenberg E, Thompson P, Ishida Y, Brennan P, Jolly KW, Termuhlen AM, Taylor M, Barcellos LF, Buffler PA. SNP association mapping across the extended major histocompatibility complex and risk of B-cell precursor acute lymphoblastic leukemia in children. *PLoS One*. 2013 Aug 22;8(8):e72557

Whitehead TP, **Metayer C**, Park JS, Does M, Buffler PA, Rappaport SM. Levels of nicotine in dust from homes of smokeless tobacco users. *Nicotine Tob Res*. 2013 Dec;15(12):2045-52.

**PUBLICATIONS** (continued)

**Metayer C**, Zhang L, Wiemels JL, Bartley K, Schiffman J, Ma X, Aldrich MC, Chang JS, Selvin S, Fu CH, Ducore J, Smith MT, Buffler PA. Tobacco smoke exposure and the risk of childhood acute lymphoblastic and myeloid leukemias by cytogenetic subtype. *Cancer Epidemiol Biomarkers Prev.* 2013 Sep;22(9):1600-11.

Chokkalingam AP, Hsu LI, **Metayer C**, Hansen HM, Month SR, Barcellos LF, Wiemels JL, Buffler PA. Genetic variants in ARID5B and CEBPE are childhood ALL susceptibility loci in Hispanics. *Cancer Causes Control.* 2013 Oct;24(10):1789-95.

Milne E, Greenop KR, **Metayer C**, Schüz J, Petridou E, Pombo-de-Oliveira MS, Infante-Rivard C, Roman E, Dockerty JD, Spector LG, Koifman S, Orsi L, Rudant J, Dessypris N, Simpson J, Lightfoot T, Kaatsch P, Baka M, Faro A, Armstrong BK, Clavel J, Buffler PA. Fetal growth and childhood acute lymphoblastic leukemia: findings from the childhood leukemia international consortium. *Int J Cancer.* 2013 Dec 15;133(12):2968-79.

Walsh KM, de Smith AJ, Chokkalingam AP, **Metayer C**, Dahl GV, Hsu LI, Barcellos LF, Wiemels JL, Buffler PA. Novel childhood ALL susceptibility locus BMI1-PIP4K2A is specifically associated with the hyperdiploid subtype. *Blood.* 2013 Jun 6;121(23):4808-9.

Wagner J, Ghosal S, Whitehead T, **Metayer C**. Morphology, spatial distribution, and concentration of flame retardants in consumer products and environmental dusts using scanning electron microscopy and Raman micro-spectroscopy. *Environ Int.* 2013 Sep;59:16-26.

Whitehead TP, Brown FR, **Metayer C**, Park JS, Does M, Petreas MX, Buffler PA, Rappaport SM. Polybrominated diphenyl ethers in residential dust: sources of variability. *Environ Int.* 2013 Jul;57-58:11-24.

Walsh KM, Chokkalingam AP, Hsu LI, **Metayer C**, de Smith AJ, Jacobs DI, Dahl GV, Loh ML, Smirnov IV, Bartley K, Ma X, Wiencke JK, Barcellos LF, Wiemels JL, Buffler PA. Associations between genome-wide Native American ancestry, known risk alleles and B-cell ALL risk in Hispanic children. *Leukemia.* 2013 Dec;27(12):2416-9.

Chokkalingam AP, Chun DS, Noonan EJ, Pfeiffer CM, Zhang M, Month SR, Taggart DR, Wiemels JL, **Metayer C**, Buffler PA. Blood levels of folate at birth and risk of childhood leukemia. *Cancer Epidemiol Biomarkers Prev.* 2013 Jun;22(6):1088-94.

Whitehead TP, **Metayer C**, Petreas M, Does M, Buffler PA, Rappaport SM. Polycyclic aromatic hydrocarbons in residential dust: sources of variability. *Environ Health Perspect.* 2013 May;121(5):543-50.

**PUBLICATIONS** (continued)

Whitehead TP, Ward MH, Colt JS, Nishioka MG, Buffler PA, Rappaport SM, **Metayer C**. Determinants of polychlorinated biphenyls in dust from homes in California, USA. *Environ Sci Process Impacts*. 2013 Feb;15(2):339-46.

**Metayer C**, Milne E, Clavel J, Infante-Rivard C, Petridou E, Taylor M, Schüz J, Spector LG, Dockerty JD, Magnani C, Pombo-de-Oliveira MS, Sinnott D, Murphy M, Roman E, Monge P, Ezzat S, Mueller BA, Scheurer ME, Armstrong BK, Birch J, Kaatsch P, Koifman S, Lightfoot T, Bhatti P, Bondy ML, Rudant J, O'Neill K, Miligi L, Dessypris N, Kang AY, Buffler PA. The Childhood Leukemia International Consortium. *Cancer Epidemiol*. 2013 Jun;37(3):336-47.

**Metayer C**, Colt JS, Buffler PA, Reed HD, Selvin S, Crouse V, Ward MH. Exposure to herbicides in house dust and risk of childhood acute lymphoblastic leukemia. *J Expo Sci Environ Epidemiol*. 2013 Jul;23(4):363-70.

Guha N, Ward MH, Gunier R, Colt JS, Lea CS, Buffler PA, **Metayer C**. Characterization of residential pesticide use and chemical formulations through self-report and household inventory: the Northern California Childhood Leukemia study. *Environ Health Perspect*. 2013 Feb;121(2):276-82.

Urayama KY, Chokkalingam AP, **Metayer C**, Ma X, Selvin S, Barcellos LF, Wiemels JL, Wiencke JK, Taylor M, Brennan P, Dahl GV, Moonsamy P, Erlich HA, Trachtenberg E, Buffler PA. HLA-DP genetic variation, proxies for early life immune modulation and childhood acute lymphoblastic leukemia risk. *Blood*. 2012 Oct 11;120(15):3039-47.

Chokkalingam AP, **Metayer C**, Scelo G, Chang JS, Schiffman J, Urayama KY, Ma X, Hansen HM, Feusner JH, Barcellos LF, Wiencke JK, Wiemels JL, Buffler PA. Fetal growth and body size genes and risk of childhood acute lymphoblastic leukemia. *Cancer Causes Control*. 2012 Sep;23(9):1577-85.

Chokkalingam AP, **Metayer C**, Scelo GA, Chang JS, Urayama KY, Aldrich MC, Guha N, Hansen HM, Dahl GV, Barcellos LF, Wiencke JK, Wiemels JL, Buffler PA. Variation in xenobiotic transport and metabolism genes, household chemical exposures, and risk of childhood acute lymphoblastic leukemia. *Cancer Causes Control*. 2012 Aug;23(8):1367-75.

Slusky DA, **Metayer C**, Aldrich MC, Ward MH, Lea CS, Selvin S, Buffler PA. Reliability of maternal-reports regarding the use of household pesticides: experience from a case-control study of childhood leukemia. *Cancer Epidemiol*. 2012 Aug;36(4):375-80.



**PUBLICATIONS** (continued)

Slusky DA, Mezei G, **Metayer C**, Selvin S, Von Behren J, Buffler PA. Comparison of racial differences in childhood cancer risk in case-control studies and population-based cancer registries. *Cancer Epidemiol.* 2012 Feb;36(1):36-44.

Chokkalingam AP, Bartley K, Wiemels JL, **Metayer C**, Barcellos LF, Hansen HM, Aldrich MC, Guha N, Urayama KY, Scélo G, Chang JS, Month SR, Wiencke JK, Buffler PA. Haplotypes of DNA repair and cell cycle control genes, X-ray exposure, and risk of childhood acute lymphoblastic leukemia. *Cancer Causes Control.* 2011 Dec;22(12):1721-30.

Chokkalingam AP, Aldrich MC, Bartley K, Hsu LI, **Metayer C**, Barcellos LF, Wiemels JL, Wiencke JK, Buffler PA, Selvin S. Matching on Race and Ethnicity in Case-Control Studies as a Means of Control for Population Stratification. *Epidemiology (Sunnyvale).* 2011 Sep 29;1:101.

**Metayer C**, Scélo G, Chokkalingam AP, Barcellos LF, Aldrich MC, Chang JS, Guha N, Urayama KY, Hansen HM, Block G, Kiley V, Wiencke JK, Wiemels JL, Buffler PA. Genetic variants in the folate pathway and risk of childhood acute lymphoblastic leukemia. *Cancer Causes Control.* 2011 Sep;22(9):1243-58.

Chang JS, Zhou M, Buffler PA, Chokkalingam AP, **Metayer C**, Wiemels JL. Profound deficit of IL10 at birth in children who develop childhood acute lymphoblastic leukemia. *Cancer Epidemiol Biomarkers Prev.* 2011 Aug;20(8):1736-40.

Whitehead T, **Metayer C**, Buffler P, Rappaport SM. Estimating exposures to indoor contaminants using residential dust. *J Expo Sci Environ Epidemiol.* 2011 Nov-Dec;21(6):549-64. doi: 10.1038/jes.2011.11. Epub 2011 Apr 27. Review. Erratum in: *J Expo Sci Environ Epidemiol.* 2013 Jan-Feb;23(1):110.

Does M, Scélo G, **Metayer C**, Selvin S, Kavet R, Buffler P. Exposure to electrical contact currents and the risk of childhood leukemia. *Radiat Res.* 2011 Mar;175(3):390-6.

Gunier RB, Ward MH, Airola M, Bell EM, Colt J, Nishioka M, Buffler PA, Reynolds P, Rull RP, Hertz A, **Metayer C**, Nuckols JR. Determinants of agricultural pesticide concentrations in carpet dust. *Environ Health Perspect.* 2011 Jul;119(7):970-6.

Urayama KY, Ma X, Selvin S, **Metayer C**, Chokkalingam AP, Wiemels JL, Does M, Chang J, Wong A, Trachtenberg E, Buffler PA. Early life exposure to infections and risk of childhood acute lymphoblastic leukemia. *Int J Cancer.* 2011 Apr 1;128(7):1632-43.

**PUBLICATIONS** (continued)

Bartley K, **Metayer C**, Selvin S, Ducore J, Buffler P. Diagnostic X-rays and risk of childhood leukaemia. *Int J Epidemiol*. 2010 Dec;39(6):1628-37.

Chang JS, Wiemels JL, Chokkalingam AP, **Metayer C**, Barcellos LF, Hansen HM, Aldrich MC, Guha N, Urayama KY, Scélo G, Green J, May SL, Kiley VA, Wiencke JK, Buffler PA. Genetic polymorphisms in adaptive immunity genes and childhood acute lymphoblastic leukemia. *Cancer Epidemiol Biomarkers Prev*. 2010 Sep;19(9):2152-63.

Wiemels JL, Kang M, Chang JS, Zheng L, Kouyoumji C, Zhang L, Smith MT, Scelo G, **Metayer C**, Buffler P, Wiencke JK. Backtracking RAS mutations in high hyperdiploid childhood acute lymphoblastic leukemia. *Blood Cells Mol Dis*. 2010 Oct 15;45(3):186-91.

Whitehead T, **Metayer C**, Gunier RB, Ward MH, Nishioka MG, Buffler P, Rappaport SM. Determinants of polycyclic aromatic hydrocarbon levels in house dust. *J Expo Sci Environ Epidemiol*. 2011 Mar-Apr;21(2):123-32.

Chang JS, Buffler PA, **Metayer C**, Chokkalingam AP, Patoka J, Kronish D, Wiemels JL. Maternal immunoglobulin E and childhood leukemia. *Cancer Epidemiol Biomarkers Prev*. 2009 Aug;18(8):2221-7.

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Ribeiro KB, Buffler PA, **Metayer C**. Socioeconomic status and childhood acute lymphocytic leukemia incidence in São Paulo, Brazil. *Int J Cancer*. 2008 Oct 15;123(8):1907-12.

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Colt JS, Gunier RB, **Metayer C**, Nishioka MG, Bell EM, Reynolds P, Buffler PA, Ward MH. Household vacuum cleaners vs. the high-volume surface sampler for collection of carpet dust samples in epidemiologic studies of children. *Environ Health*. 2008 Feb 21;7:6.

Chang JS, **Metayer C**, Fear NT, Reinier K, Yin X, Urayama K, Russo C, Jolly KW, Buffler PA. Parental social contact in the work place and the risk of childhood acute lymphoblastic leukaemia. *Br J Cancer*. 2007 Nov 5;97(9):1315-21.

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Kwan ML, **Metayer C**, Crouse V, Buffler PA. Maternal illness and Drug/medication use during the period surrounding pregnancy and risk of childhood leukemia among offspring. *Am J Epidemiol*. 2007 Jan 1;165(1):27-35.

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Aldrich MC, Zhang L, Wiemels JL, Ma X, Loh ML, **Metayer C**, Selvin S, Feusner J, Smith MT, Buffler PA. Cytogenetics of Hispanic and White children with acute lymphoblastic leukemia in California. *Cancer Epidemiol Biomarkers Prev*. 2006 Mar;15(3):578-81.

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Hegedus CM, Gunn L, Skibola CF, Zhang L, Shiao R, Fu S, Dalmaso EA, **Metayer C**, Dahl GV, Buffler PA, Smith MT. Proteomic analysis of childhood leukemia. *Leukemia*. 2005 Oct;19(10):1713-8.

Ma X, Buffler PA, Wiemels JL, Selvin S, **Metayer C**, Loh M, Does MB, Wiencke JK. Ethnic difference in daycare attendance, early infections, and risk of childhood acute lymphoblastic leukemia. *Cancer Epidemiol Biomarkers Prev*. 2005 Aug;14(8):1928-34. PubMed PMID: 16103439.

Kwan ML, Buffler PA, Wiemels JL, **Metayer C**, Selvin S, Ducore JM, Block G. Breastfeeding patterns and risk of childhood acute lymphoblastic leukaemia. *Br J Cancer*. 2005 Aug 8;93(3):379-84.

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## ABSTRACTS PRESENTED (AS LEAD) AT SCIENTIFIC MEETINGS

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2. **Metayer C**. Effects of tobacco smoking on the risks of childhood acute lymphocytic and myeloid leukemias, by phenotypic and cytogenetic subtype. *CHILDREN with CANCER UK, International Scientific Conference*; Apr 24-26, 2012 2012; London, England.
3. **Metayer C**, Scélo G, Chokkalingam AP, et al. Genetic variants in the folate pathway and risk of childhood acute lymphoblastic leukemia. *CHILDREN with CANCER UK, International Scientific Conference*; April 24-26, 2012, 2012; London, England.
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2. Effect of smoking and other environmental hazards and risk of childhood leukemia. *Stanford University School of Medicine, Pediatric Grand Rounds*, Palo Alto, June 2011.

3. Childhood leukemia International Consortium. *International Childhood Cancer Cohort Consortium Workshop*. Barcelona, Spain, Sept. 19-20, 2011
4. Exposure to Herbicides in House Dust and Risk of Childhood Leukemia. *23<sup>rd</sup> Conference of the International Society for Environmental Epidemiology*, Barcelona, Spain, Sept. 13-16, 2011
5. How Chemicals in the Environment Affect Children's Health? *Educational Workshop by the Maternal and Child Health Program, School of Public Health, University of California Berkeley*, Oakland, CA, Nov. 13, 2011.
6. Tobacco Smoking and Childhood Cancers. Presented at: *CHILDREN with CANCER UK, International Scientific Conference*; April 24-26, 2012 London, England.
7. Chemical Risk Factors of Childhood Leukemia, *Kaiser Permanente Scientific Symposium*, Oakland, CA, Oct 26, 2013.
8. Symposium on Childhood Leukemia: Occupational Exposures. *International Society for Environmental Epidemiology*; August 2014, Seattle, WA, USA
9. Symposium on Childhood Leukemia: A Preventable Disease? *Pediatric Academic Societies Annual Meeting*; April 2015, San Diego, CA, USA
10. Congressional Briefing: Childhood Leukemia, Washington DC, October 28, 2015