

Richard K. Kwok, Ph.D.

Curriculum Vitae

Education

2003 PhD Epidemiology, University of North Carolina, Chapel Hill, NC
1999 MSPH Epidemiology, University of North Carolina, Chapel Hill, NC
1997 BSPH Environmental Science, University of North Carolina, Chapel Hill, NC

Professional Experience

2010 to date Staff Scientist. National Institute of Environmental Health Sciences, Research Triangle Park, NC

2006 - 2014 Adjunct Assistant Professor. Environmental Epidemiology instructor, Nicholas School of the Environment, Duke University, Durham, NC

2004 - 2006 Visiting Assistant Professor. Environmental Epidemiology instructor, Nicholas School of the Environment, Duke University, Durham, NC

2008 - 2010 Honorary Research Fellow. Murdoch Children's Research Institute (MCRI), Melbourne, Australia

2007 Visiting Researcher (joint appointment). Murdoch Children's Research Institute (MCRI); Royal Children's Hospital, Parkville, Australia; and Department of Pediatrics, The University of Melbourne, Melbourne, Australia.

2005 - 2010 Research Epidemiologist 3. RTI International, Research Triangle Park, NC

2003 - 2005 Research Epidemiologist 2. RTI International, Research Triangle Park, NC

1998 - 2003 Environmental Health Scientist. U.S. Environmental Protection Agency, Research Triangle Park, NC.

1998 - 2000 Teaching Assistant. Department of Epidemiology, University of North Carolina, Chapel Hill, NC

1993 to 2000 Research Associate. Department of Radiology, University of North Carolina, Chapel Hill, NC.

Honors and Awards

NIH Director's Award (GuLF STUDY, 2011; HHS Deepwater Horizon Oil Spill Response, 2011; Disaster Research Response, 2016)
NIEHS Merit Award (2010, 2016)
Village Pride Award, WCHL Chapel Hill (2013)
U.S. EPA Scientific and Technological Achievement Awards (STAA), Level II Award (2008)
Highly Published Author Award, RTI International (2007, 2008, 2009, 2010)
RTI Thanks You Award for Exceptional Performance, RTI International (2006)
Early Career Author Award, RTI International (2006)
Professional Development Award, RTI International (2006)
Student Prize Paper Award, American College of Epidemiology (2004)
Delta Omega, the Honorary Public Health Society (2004)
U.S. Public Health Service Traineeship Award (2003)
Team Award, U.S. Environmental Protection Agency (EPA) (2003)
Delbert Hemphill Award, Student First Prize, Society for Environmental Geochemistry and Health, Fifth International Conference on Arsenic Exposure and Health Effects (2002)
Order of the Grail-Valkyries, University of North Carolina (UNC) at Chapel Hill (2002)
Order of the Old Well, UNC Chapel Hill (2001)
Frank Porter Graham Graduate and Professional Student Honorary Society, UNC Chapel Hill (2001)
Time-Off Award, U.S. EPA (2000, 2000, 2002, 2003)
Superior Accomplishment Recognition Award, U.S. EPA (2000, 2003)
On-the-Spot Award, U.S. EPA (1999, 2001, 2001, 2002, 2002, 2003, 2003)
Society of Janus Award, UNC Chapel Hill (1997)
Distinguished Service Award, Alpha Phi Omega Co-ed Service Fraternity (1996)
Order of the Arrow, Vigil Member, Boy Scouts of America (1993)
Eagle Scout, Boy Scouts of America (1993)

Professional Associations

American College of Epidemiology
International Society for Environmental Epidemiology
International Society of Exposure Science
Society for Environmental Geochemistry and Health
Society for Epidemiologic Research

Professional Service

Chair, Epidemiology Section, NIEHS Cross-divisional Implementation Plan for the Exposome, 2011 to present
Member, NIEHS Cross-divisional Global Environmental Health Working Group, 2011 to present
Executive Committee Member, UNC Gillings School of Global Public Health Alumni Association, 2009 to 2011

Chair, Workgroup for Core Study Protocol and Data Dictionary for Future Analyses,
International Childhood Cancer Cohort Consortium Workshop, Copenhagen, Denmark,
2007

Review Panel Member, Project Review Committee, RTI International, 2007 to 2010

Review Panel Member, Kentucky Science and Engineering Foundation, 2006

Reviewer of Abstracts, Second Congress of Epidemiology, Seattle, WA, USA, 2006

President, Epidemiology Section, University of North Carolina Gillings School of Global Public
Health Alumni Association Board of Directors, 2005 to 2007

Photo Editor, Communications Committee, American College of Epidemiology, 2005 to 2007

Peer reviewer of manuscripts submitted to:

American Journal of Epidemiology

Emerging Themes in Epidemiology

Environmental Health

Environmental Health Perspectives

Environmental Sciences

International Journal of Environmental Research and Public Health

International Journal of Disaster Risk Reduction

International Journal of Public Health

Journal of Behavioral Health Services & Research

Journal of Epidemiology and Community Health

Journal of Exposure Analysis and Environmental Epidemiology

Journal of Exposure Science and Environmental Epidemiology

Journal of Health, Population, and Nutrition

Libertas Academica

Paediatric and Perinatal Epidemiology

Proceedings of the National Academy of Sciences

Science of the Total Environment

Toxicology and Applied Pharmacology

Community Involvement

2004 – 2013 Mentor, Blue-Ribbon Mentor Advocate Program, Chapel Hill-Carrboro School
District

2006 – 2010 Member, Board of Directors, Orange County Rape Crisis Center

2003 – 2006 Vice-President, Culbreth Park Board of Directors

Seminars and Courses Taught

ENV 298 Environmental Epidemiology, Duke University (2004, 2005, 2006, 2008, 2010)

ENV 299 Advanced Topics in Environmental Epidemiology, Duke University (2006)

EPID 150 Introduction to SAS, UNC Chapel Hill (2000)

EPID 160 Introduction to Epidemiology, University of North Carolina (UNC) Chapel Hill
(1998, 1999)

PAP 255 Epidemiology and Research Methods, Duke University (1999)

Special Courses

1 day COR Refresher (2012, 2013, 2014, 2015, 2016)
2-hour Green Purchase Training (2011)
16-hour HHS Appropriation Law Training (2011, 2013, 2015)
40-hour Basic Contract Officer Representative (COR) Training (2011)
8-hour Field Activity Training Course, U.S. Environmental Protection Agency (1998, 1999, 2000, 2001, 2002, 2003)

Computer Skills

Proficient with Mac, UNIX, and Windows operating platforms. Proficient in a variety of office, publishing, Web-design, GIS, relational database, database management, and statistical analysis software, such as Adobe Pagemaker, Adobe Photoshop, ESRI ArcView 3.2, ESRI ArcGIS, Dreamweaver, Oracle, SAS, STATA and S-PLUS.

Languages

Chinese, French

Country Experience

Australia, Bangladesh, Canada, China, Denmark, Finland, France, India, Israel, Mexico, Netherlands, Norway, Spain, United Kingdom

Mentoring

Kaitlyn Gam (Summer Student Fellow 2014)

Department of Environmental Health, Tulane University (PhD 2018)

Lung Function in Oil Spill Clean-up Workers: Social, environmental, and oil spill contributors

Brad Doherty (Summer Student Fellow 2014)

Department of Epidemiology, University of North Carolina at Chapel Hill (PhD expected 2019)

Biologic markers of BTEX (Benzene, Toluene, Ethylbenzene, Xylene) due to current environmental exposures.

Craig McGowan (Summer Student Fellow 2015)

Department of Biostatistics University of North Carolina (Masters 2016)

Acute and chronic symptoms associated with use of dispersants during clean-up of the Gulf (of Mexico) Oil Spill.

Xian Zhang (Summer Student Fellow 2015)

Department of Epidemiology, University of California at Irvine (PhD 2016)
Hypertension in workers involved in clean-up after the Deepwater Horizon oil spill.

Rachel Nethery (Summer Student Fellow 2016)

Department of Biostatistics, University of North Carolina at Chapel Hill (PhD 2017)
Accounting for social and environmental factors related to risk of neurological symptoms following the Deepwater Horizon Disaster using geospatial modeling.

Gieira Jones (NIH Undergraduate Scholarship Program post-baccalaureate Fellow – summer 2016)

Department of Epidemiology, University of North Carolina at Chapel Hill (PhD expected 2020)

Health effects of oil spill exposures among Vietnamese participating in cleanup after the Deepwater Horizon Disaster.

Joyce Rhoden (Summer Student Fellow 2017)

Department of Epidemiology, University of North Carolina at Chapel Hill (PhD expected 2020)

Hypertension in Relation to Measured Blood Levels of Metals

Peer-reviewed Journal Articles

52. Strelitz J, Sandler DP, Keil AP, Richardson DB, Heiss G, Gammon MD, **Kwok RK**, Engel LS. (submitted) Exposure to Hydrocarbons during clean-up of the *Deepwater Horizon* oil spill and risk of heart attack during 5 years of follow-up. *American Journal of Epidemiology*.
51. Lowe SR, McGrath JA, Young MN, **Kwok RK**, Engel LS, Galea S, Sandler DP. (submitted) Cumulative Disaster Exposure and Mental and Physical Health Symptoms among a Large Sample of Gulf Coast Residents. *Journal of Traumatic Stress*.
50. Gam KB, Engel LS, **Kwok RK**, Curry MD, Stewart PA, Stenzel MR, McGrath JA, Jackson II WB, Jensen RL, Lichtveld MY, Sandler DP. (submitted) Association of Deepwater Horizon oil spill experiences and lung function in response and cleanup workers. *Environment International*
49. Strelitz J, Keil AP, Richardson DB, Heiss G, Gammon MD, **Kwok RK**, Sandler DP, Engel LS. (submitted) Heart attack among clean-up workers and community members 5 years after the *Deepwater Horizon* oil spill. *Environmental Research*.
48. Werder EJ, Sandler DP, Richardson DP, Emch ME, **Kwok RK**, Gerr FE, Engel LS. (submitted) Environmental styrene exposure and peripheral nerve function in Gulf coast residents. *Environmental Health Perspectives*.
47. Werder EJ, Engel LS, Richardson DB, Emch ME, Gerr FE, **Kwok RK**, Sandler DP. (submitted) Environmental styrene exposure and neurologic symptoms in Gulf coast residents. *International Journal of Epidemiology*.

46. Werder EJ, Gam KG, Engel LS, **Kwok RK**, Ekenga CC, Curry MD, Chambers DM, Blair A, Miller A, Birnbaum LS, Sandler DP. (submitted) Predictors of blood BTEX levels in Gulf coast residents. *Journal of Exposure Science and Environmental Epidemiology*.
45. Jelsema CM, Peddada SD, **Kwok RK**. (submitted) Optimal Placement of Knots for Large-Scale Spatial Models With Applications to the Deepwater Horizon Disaster. *Journal of Agricultural, Biological, and Environmental Statistics*.
44. Nethery RC, Sandler DP, Zhao S, Engel LS, **Kwok RK**. (in press) A Joint Spatial Factor Analysis Model to Accommodate Data from Misaligned Nested Areal Units with Application to Louisiana Social Vulnerability. *Biostatistics*.
43. Gam KB, **Kwok RK**, Engel LS, Curry MD, Stewart PA, Stenzel MR, Jensen RL, Lichtveld MY, Sandler DP. (in press) Exposure to oil spill chemicals and lung function in Deepwater Horizon disaster response workers. *Journal of Occupational and Environmental Medicine*.
42. Gam KB, **Kwok RK**, Engel LS, Curry MD, Stewart PA, Stenzel MR, McGrath JA, Jackson WB, Jensen RL, Keil AP, Lichtveld MY, Miller AK, Sandler DP. (in press) Lung function in oil spill response workers 1-3 years after the Deepwater Horizon disaster. *Epidemiology*.
41. Stewart PA, Stenzel MR, Ramachandran G, Banerjee S, Huynh T, Groth C, **Kwok RK**, Blair A, Engel LS, Sandler DP. (2017) Development of an Ordinal Job-Exposure Matrix for Workers Responding to the Deepwater Horizon Disaster: The GuLF STUDY. *Journal of Exposure Science and Environmental Epidemiology*. doi: 10.1038/jes.2017.16. PMID: 29064482
40. **Kwok RK**, McGrath JA, Lowe SR, Engel LS, Jackson II WB, Curry MD, Payne J, Galea S, Sandler DP. (2017) Mental Health Indicators Associated with the 2010 Deepwater Horizon Oil Spill: A Cross-Sectional Analysis of the GuLF STUDY. *Lancet Public Health*. 2(12):e560-e567. doi: 10.1016/S2468-2667(17)30194-9. PMID: 29253441
39. McGowan CJ, **Kwok RK**, Engel LS, Stenzel MR, Stewart PA, Sandler DP. (2017) Respiratory, dermal, and eye irritation symptoms associated with Corexit EC9527A/EC9500A following the Deepwater Horizon oil spill: Findings from the GuLF STUDY. *Environmental Health Perspectives*. 15;125(9):097015. doi: 10.1289/EHP1677. PMID: 28934097
38. Sandifer PA, Knapp LC, Collier TK, Jones AL, Juster RP, Kelble CR, **Kwok RK**, Miglarese JV, Palinkas LA, Porter DE, Scott GI, Smith LM, Sullivan WC, Sutton-Grier AE. (2017). A Conceptual Model to Assess Stress-Associated Health Effects of Multiple Ecosystem Services Degraded by Disaster Events in the Gulf of Mexico and Elsewhere. *GeoHealth*. 1(1):17-36. doi:10.1002/2016GH000038.
37. Doherty BT, **Kwok RK**, Curry MD, Ekenga C, Chambers D, Sandler DP, Engel LS. (2017) Associations between Blood BTEXS Concentrations and Hematologic Parameters among Adult Residents of the U.S. Gulf States. *Environmental Research*. 156:579-587. doi: 10.1016/j.envres.2017.03.048. PMID: 28448810

36. Engel LS, **Kwok RK**, Miller AK, Blair A, Curry MD, McGrath JA, Sandler DP, GuLF STUDY Research Team. (2017) The Gulf Long-Term Follow-Up Study (GuLF STUDY): Biospecimen Collection at Enrollment. *Journal of Toxicology and Environmental Health, Part A*. 80(4):218-229. doi: 10.1080/15287394.2017.1283274. PMID: 28418274
35. Stingone JA, Buck Louis GM, Nakayama SF, Vermeulen RCH, **Kwok RK**, Cui Y, Balshaw DM, Teitelbaum SL. (2017) Toward greater implementation of the exposome research paradigm within environmental epidemiology. *Annual Review of Public Health*. 38: 315-327. doi: 10.1146/annurev-publhealth-082516-012750. PMID: 28125387
34. **Kwok RK**, Engel LS, Miller AK, Blair A, Curry MD, Jackson II WB, Stewart PA, Stenzel MR, Birnbaum LS, Sandler DP, GuLF STUDY Research Team. (2017) The GuLF STUDY: a prospective study of persons involved in the *Deepwater Horizon* oil spill response and clean-up. *Environmental Health Perspectives*. 125:570-578. doi: 10.1289/EHP715. PMID: 28362265
33. Groth C, Banerjee S, Ramachandran G, Stenzel MR, Sandler DP, Blair A, Engel LS, **Kwok RK**, Stewart PA. (2017) Bivariate Left-Censored Bayesian Model for Predicting Exposure: Preliminary Analysis of Worker Exposure during the *Deepwater Horizon* Oil Spill. *Annals of Work Exposures and Health*. 61(1): 76-86. doi: 10.1093/annweh/wxw003. PMID: 28395309
32. Lichtveld M, Sherchan S, Gam K, **Kwok R**, Mundorf C, Shankar A, Soares L. (2016) The Deepwater Horizon Oil Spill through the Lens of Human Health and the Ecosystem. *Current Environmental Health Reports*. 3(4):370-378. doi : 10.1007/s40572-016-0119-7. PMID: 27722880
31. Lowe SR, **Kwok RK**, Payne J, Engel LS, Galea S, Sandler DP. (2016) Why Does Disaster Recovery Work Influence Mental Health?: Pathways through Physical Health and Income. *American Journal of Community Psychology*. 58(3-4):354-364. doi: 10.1002/ajcp.12091. PMID: 27704561
30. Cui Y, Balshaw DM, **Kwok RK**, Thompson CL, Collman GW, Birnbaum LS. (2016) The Exposome: Embracing the Complexity for Discovery in Environmental Health. *Environmental Health Perspectives*. 124(8):A137-40. doi: 10.1289/EHP412. PMID: 27479988
29. Miller A, Yeskey K, Garantziotis S, Arnesen S, Bennett A, O'Fallon L, Thompson C, Reinlib L, Masten S, Remington J, Love C, Ramsey S, Rosselli R, Galluzzo B, Lee J, **Kwok R**, Hughes J. (2016) Integrating Health Research into Disaster Response: The New NIH Disaster Research Response Program. *International Journal of Environmental Research and Public Health*. 13(7). pii: E676. doi: 10.3390/ijerph13070676. PMID: 27384574
28. Huynh T, Quick H, Ramachandran G, Banerjee S, Stenzel M, Sandler DP, Engel LS, **Kwok RK**, Blair A, Stewart PA. (2016) A Comparison of the β -substitution Method and a Bayesian Method for Analyzing Left-Censored Data. *Annals of Occupational Hygiene*. 60(1):56-73. doi:10.1093/annhyg/mev049. PMID: 26209598

27. Resnik DB, Miller AK, **Kwok RK**, Engel LS, Sandler DP. (2015) Ethical issues in environmental health research related to public health emergencies: Reflections on the GuLF STUDY. *Environmental Health Perspectives*. 123 (9): A227-A231. doi:10.1289/ehp.1509889; PMID: 26325057; PMCID: PMC4559957
26. Lowe SR, **Kwok RK**, Payne J, Engel LS, Galea S, Sandler DP. (2015) Mental health service use by cleanup workers in the aftermath of the Deepwater Horizon oil spill. *Soc Sci Med*. 130:125-34. doi: 10.1016/j.socscimed.2015.02.009. PMID: 25697635; PMCID: PMC4363993.
25. Huynh T, Ramachandran G, Banerjee S, Monteiro J, Stenzel M, Sandler D, **Kwok RK**, Engel L, Blair A, Stewart PA. (2014) Comparison of methods for analyzing left-censored occupational exposure data. *Annals of Occupational Hygiene*. doi: 10.1093/annhyg/meu067. PMID: 25261453. PMCID: PMC4271092.
24. Quick H, Groth C, Banerjee S, Carlin BP, Stenzel MR, Stewart PA, Sandler DP, Engel LS, **Kwok RK**. (2014). Exploration of the use of Bayesian modeling of gradients for censored spatiotemporal data from the *Deepwater Horizon* oil spill. *Spatial Statistics*. 9:166-179. doi: 10.1016/j.spasta.2014.03.002. PMID: 25599019; PMCID: PMC4294982.
23. Cahoon EK, Wheeler DC, Kimlin MG, **Kwok RK**, Alexander BH, Little MP, Linet MS, Freedman DM. (2013). Individual, environmental, and meteorological predictors of daily personal ultraviolet radiation exposure measurements in a United States cohort study. *PLoS ONE*. 8(2):e54983. doi: 10.1371/journal.pone.0054983. PMID: 23405102. PMCID: PMC3566166.
22. Balshaw DM, **Kwok RK**. (2012). Innovative Methods for Improving Measures of the Personal Environment. *American Journal of Preventive Medicine*. 42(5):558-9. PMID: 22516500.
21. Hamilton CM, Strader LC, Pratt JG, Maiese D, Hendershot T, **Kwok RK**, Hammond JA, Huggins W, Jackman D, Pan H, Nettles DS, Beaty TH, Farrer LA, Kraft P, Marazita ML, Ordovas JM, Pato CN, Spitz MR, Wagener D, Williams M, Junkins HA, Harlan WR, Ramos EM, Haines J. (2011). The PhenX Toolkit: Get the Most From Your Measures. *American Journal of Epidemiology*. 174(3):253-60. PMID: 21749974. PMCID: PMC3141081.
20. Myers SL, Lobdell DT, Liu Z, Xia Y, Ning Z, **Kwok RK**, Mumford JL, Mendola P. (2010) Maternal drinking water arsenic exposure and perinatal outcomes in Inner Mongolia, China. *Journal of Epidemiology and Community Health*. 64(4), 325-9. PMID: 19692727.
19. Yu CL, Li Y, Freedman DM, Fears T, **Kwok R**, Chodick G, Alexander BH, Kimlin M, Krickler A, Armstrong BK, Linet MS. (2009). Assessment of lifetime cumulative sun exposure using a self-administered questionnaire: Reliability of two approaches. *Cancer Epidemiology, Biomarkers & Prevention*. 18(2), 464-471. PMID: 19190171. PMCID: PMC2746098.

18. **Kwok RK**, Linet MS, Chodick G, Kleinerman RA, Freedman DM, Fears T, Johnson RE, Alexander BH. (2009). Simplified categorization of outdoor activities for male and female U.S. indoor workers; application to ultraviolet radiation assessment questionnaires. *Photochemistry and Photobiology*, 85(1), 45-49. PMID: 18643910. PMCID: PMC3956440.
17. Chodick G, Kleinerman RA, Linet MS, Fears T, **Kwok RK**, Kimlin MG, Alexander BH, Freedman DM. (2008). Agreement between diary records of time spent outdoors and personal ultraviolet radiation measurements. *Photochemistry and Photobiology*, 84(3), 713–718. PMID: 18435619. PMCID: PMC3966551.
16. Chodick G, Freedman DM, **Kwok RK**, Fears T, Linet MS, Alexander BH, Kleinerman RA. (2007). Agreement between contemporaneously recorded and subsequently recalled time spent outdoors: Implications for environmental exposure studies. *Annals of Epidemiology*, 17(2), 106–111. PMID: 16882464
15. **Kwok RK**. (2007). A review and rationale for studying the cardiovascular effects of drinking water arsenic in women of reproductive age. *Toxicology and Applied Pharmacology*, 222(3), 344–350. PMID: 17467762
14. **Kwok RK**, Mendola P, Liu ZY, Savitz DA, Heiss G, He LL, Xia Y, Lobdell D, Zeng D, Thorp JM, Jr., Creason JP, Mumford JL. (2007). Drinking water arsenic exposure and blood pressure in healthy women of reproductive age in inner Mongolia, China. *Toxicology and Applied Pharmacology*, 222(3), 337–343. PMID: 17509635
13. Liu ZY, Lobdell DT, Myers SL, He LL, Yang M, **Kwok RK**, Mumford JL, Mendola P. (2007). Pregnancy and perinatal health, inner Mongolia, China, 1996–1999. *International Journal of Gynecology and Obstetrics*, 99(2), 127–131. PMID: 17618632
12. Mumford J, Wu K, Xia Y, **Kwok R**, Yang Z, Foster J, Sanders WE, Jr. (2007). Chronic arsenic exposure and cardiac repolarization abnormalities with qt interval prolongation in a population-based study. *Environmental Health Perspectives*, 115(5), 690–694. PMID: 17520054. PMCID: PMC1867981.
11. Ning Z, Lobdell DT, **Kwok RK**, Liu Z, Zhang S, Ma C, Riediker M, Mumford JL. (2007). Residential exposure to drinking water arsenic in inner Mongolia, China. *Toxicology and Applied Pharmacology*, 222(3), 351–356. PMID: 17448512.
10. **Kwok RK**, Kaufmann RB, Jakariya M. (2006). Arsenic in drinking water and reproductive health outcomes: A study of Bangladesh integrated nutrition programme participants. *Journal of Health, Population and Nutrition*, 24(2), 190–205. PMID: 17195560.
9. Li YH, Xia YJ, He LJ, Ning ZX, Wu KG, Zhao BX, Le XC, **Kwok RK**, Schmitt M, Wade T, Mumford J, Otto D. (2006). Neurosensory effects of chronic exposure to arsenic via drinking water in Inner Mongolia: I. Signs, symptoms and pinprick testing. *Journal of Water and Health*, 4(1), 29–37. PMID: 16604836.

8. Otto D, Li YH, Xia YJ, He LL, Ning ZX, Wu KG, Zhao BX, Hudnell HK, **Kwok RK**, Geller A, Wade T, Mumford J. (2006). Neurosensory effects of chronic exposure to arsenic via drinking water in Inner Mongolia: II. Vibrotactile and visual function. *Journal of Water and Health*, 4(1), 39–48. PMID: 16604837.
7. Feng Z, Xia Y, Tian D, Wu K, Schmitt M, **Kwok RK**, Mumford JL. (2001). DNA damage in buccal epithelial cells from individuals chronically exposed to arsenic via drinking water in inner Mongolia, China. *Anticancer Research*, 21(1A), 51–57. PMID: 11299789.
6. **Kwok RK**, Yankaskas BC. (2001). The use of census data for determining race and education as SES indicators: A validation study. *Annals of Epidemiology*, 11(3), 171–177. PMID: 11293403.
5. Heinzen MT, Yankaskas BC, **Kwok RK**. (2000). Comparison of woman-specific versus breast-specific data for reporting screening mammography performance. *Academic Radiology*, 7(4), 232–236. PMID: 10766095.
4. Howard-Reed C, Rea AW, Zufall MJ, Burke JM, Williams RW, Suggs JC, Sheldon LS, Walsh D, **Kwok R**. (2000). Use of a continuous nephelometer to measure personal exposure to particles during the U.S. environmental protection agency Baltimore and Fresno panel studies. *Journal of the Air and Waste Management Association*, 50(7), 1125–1132. PMID: 10939206.
3. Williams R, Suggs J, Zweidinger R, Evans G, Creason J, **Kwok R**, Rodes C, Lawless P, Sheldon L. (2000). The 1998 Baltimore particulate matter epidemiology-exposure study: Part 1. Comparison of ambient, residential outdoor, indoor, and apartment particulate matter monitoring. *Journal of Exposure Analysis and Environmental Epidemiology*, 10(6), Pt. 1, 518–532. PMID: 11140436.
2. Williams R, Suggs J, Creason J, Rodes C, Lawless P, **Kwok R**, Zweidinger R, Sheldon L. (2000). The 1998 Baltimore particulate matter epidemiology-exposure study: Part 2. Personal exposure assessment associated with an elderly study population. *Journal of Exposure Analysis and Environmental Epidemiology*, 10(6), 533–543. PMID: 11140437.
1. Williams R, Suggs J, Rodes C, Lawless P, Zweidinger R, **Kwok R**, Creason J, Sheldon L. (2000). Comparison of PM_{2.5} and pm₁₀ monitors. *Journal of Exposure Analysis and Environmental Epidemiology*, 10(5), 497–505. PMID: 11051539.

Letters to the Editor and Erratum

2. Resnik DB, Miller AK, **Kwok RK**, Engel LS, Sandler DP. (2016) Erratum: "Ethical Issues in Environmental Health Research Related to Public Health Emergencies: Reflections on the GuLF STUDY". *Environmental Health Perspectives*. 124(2):A29. doi: 10.1289/ehp.124-A29. PMID: 26829815

1. Hamilton CM, Strader LC, Pratt JG, Maiese D, Hendershot T, **Kwok RK**, Hammond JA, Huggins W, Jackman D, Pan H, Nettles DS, Beaty TH, Farrer LA, Kraft P, Marazita ML, Ordovas JM, Pato CN, Spitz MR, Wagener D, Williams M, Junkins HA, Harlan WR, Ramos EM, Haines J. (2011). Hamilton et al. Respond to “Consolidating Data Harmonization.” *American Journal of Epidemiology*. 174(3):265-6. PMID: 21749970.

Books, Book Chapters, and Monographs

3. **Kwok RK**. (2008). Mean. In *Encyclopedia of survey research methods, Vol. 1*, ed. P. J. Lavrakas, 455. Thousand Oaks, CA: Sage.
2. **Kwok RK**. (2008). Median. In *Encyclopedia of survey research methods, Vol. 1*, ed. P. J. Lavrakas, 461. Thousand Oaks, CA: Sage.
1. **Kwok RK**. (2008). Mode. In *Encyclopedia of survey research methods, Vol. 1*, ed. P. J. Lavrakas, 475. Thousand Oaks, CA: Sage.

Technical Reports

3. Pattanayak SK, Poulos C, Wendland KJ, Patil SR, Yang J, **Kwok RK**, Corey C. (2007). *Report: Informing the water and sanitation sector policy: Case study of an impact evaluation study of water supply, sanitation and hygiene interventions in rural Maharashtra, India*. Prepared for the World Bank.
2. Pattanayak SK, Yang J-C, Patil S, Poulos C, Jones KM, Kleinau E, Corey CG, **Kwok R**. (2005). *Environmental health impacts of water supply, sanitation and hygiene interventions in rural Maharashtra, India: Revised study protocol*. Prepared for the World Bank.
1. Pattanayak SK, Yang J-C, Patil S, Poulos C, Jones KM, Kleinau E, Corey CG, **Kwok R**. (2005). *Environmental health impacts of water supply, sanitation, and hygiene interventions in rural Orissa, India: Revised study protocol*. Prepared for the World Bank.

Presentations and Proceedings

100. **Kwok RK**, Miller A, Engel LS, Curry M, Ramsey S, Birnbaum L, Sandler DP. (2018) *Applied Epidemiology and Exposure Challenges in Response to the Gulf Oil Spill*. International Society of Exposure Science and the International Society for Environmental Epidemiology. Ottawa, Canada. (Presentation)
99. Lowe SR, McGrath JA, Young MN, **Kwok RK**, Engel LS, Galea S, Sandler DP. (2018) *Cumulative Disaster Exposure Impacts Mental and Physical Health Symptoms among a Large Sample of Gulf Coast Residents*. Society for Epidemiologic Research Conference. Baltimore, MD. (Presentation)

98. Hughes C, O'Fallon L, Miller A, Reinlib L, Garantziotis S, **Kwok R**. (2017) *Personal Exposure Monitoring, Citizen Science, and Disasters Research*. American Public Health Association Conference. Atlanta, GA. (Presentation)
97. Feinstein, L, Gam KB, Curry MD, Jackson WB, McGrath JA, **Kwok RK**, Engel LS, Sandler DP. (2017) *Mitigating bias in population-based epidemiologic research: An evaluation of strategies in the Gulf Long-term Follow-up Study (GuLF STUDY)*. American College of Epidemiology. New Orleans, LA.
96. **Kwok RK**, Lowe SR, Engel LS, McGrath JA, Jackson B, Curry MD, Payne J, Galea S, Sandler DP. (2017) *Mental Health Effects Associated with the 2010 Deepwater Horizon Oil-Spill*. American College of Epidemiology. New Orleans, LA.
95. Nethery RC, Sandler DP, Zhao S, Engel LS, **Kwok RK**. (2017) *A Joint Spatial Factor Analysis Model to Accommodate Data from Misaligned, Nested Areal Units with Application to Louisiana Social Vulnerability*. Joint Statistical Meetings (JSM). Baltimore, MD. (Presentation)
94. Bodkin M, Sisco K, Armsby P, Curry M, **Kwok RK**, Engel LS, and Sandler, DP. (2016) *Strategies to Increase Participation in Prospective Cohort Studies*. Southern Association for Public Opinion Research Annual Meetings. Raleigh, NC. (Presentation)
93. Bodkin M, Sisco K, Armsby P, Curry M, **Kwok RK**, Engel LS, and Sandler DP. (2016) *Strategies to Maintain Current Contact Information for Participants in Prospective Cohort Studies*. Southern Association for Public Opinion Research Annual Meetings. Raleigh, NC. (Presentation)
92. Gam KB, **Kwok RK**, Engel LS, Curry MD, Hodgs AB, McGrath JA, Jackson WB, Stenzel MR, Stewart PA and Sandler DS. (2016) *Lung Function in the GuLF STUDY Participants 1-3 years following the 2010 Deepwater Horizon oil spill*. Epidemiology Congress of the Americas. Miami, FL.
91. Groth C, Banerjee S, Reagan I, Ramachandran G, Stewart PA, Sandler DP, Blair A, Engel LS, **Kwok RK** and Stenzel MR. (2016) *Bayesian Analysis of 26 Million Area VOC Observations for the Prediction of Personal THC Exposure*. Minnesota Supercomputing Institute Research Exhibition, Minneapolis, MN.

*Won 1st Place in Biological and Medical Sciences category

90. Jackson WB, Curry MD, McGrath JA, Jensen RL, Gam KB, Engel LS, **Kwok RK**, and Sandler DP. (2016) *Predictors of Spirometry Quality in the Gulf Long-Term Follow-up (GuLF) STUDY*. Epidemiology Congress of the Americas. Miami, FL
89. McGowan CJ, **Kwok RK**, Engel LS, Stewart PA, Stenzel MR, and Sandler DP. (2016) *Respiratory Symptoms and Eye Irritation Related Dispersant Exposure in the GuLF STUDY*. Gulf of Mexico Oil Spill and Ecosystem Science Conference. Tampa, FL. (Presentation)

88. Strelitz JM, Engel LS, **Kwok RK**, Miller A, Blair A, Sandler DP. (2016) *Oil Spill Work and Incident Coronary Heart Disease in the GuLF STUDY*. Gulf of Mexico Oil Spill and Ecosystem Science Conference. Tampa, FL.
87. Strelitz J, Engel LS, **Kwok RK**, Miller A, Blair A, Sandler DP. (2016) *Oil spill cleanup work and incident coronary heart disease in the GuLF STUDY*. International Epidemiology in Occupational Health (EPICOH) Conference. Barcelona, Spain
86. Zhang X, **Kwok RK**, Sandler DP. (2016) *Oil Spill Exposures and Incident Hypertension in the Gulf Long-term Follow-up Study*. Gulf of Mexico Oil Spill and Ecosystem Science Conference, Tampa, FL. (Presentation)
85. Strelitz J, Engel LS, **Kwok RK**, Miller A, Blair A, Sandler DP. (2016) *Deepwater Horizon oil spill cleanup exposures and incident coronary heart disease in the GuLF STUDY*. International Society for Environmental Epidemiology, Rome, Italy.
84. **Kwok RK**, Miller AK, Hughes JP, Ramsey S. (2016) *Improving Disaster Research Response to Better Understand Human Health Impacts*. International Society of Environmental Epidemiology. Rome, Italy.
83. Sandler DP, **Kwok RK**, Engel LS, Miller A. (2016) The GuLF STUDY: A Long-term Study of Workers Involved in Oil Spill Response and Clean-up. Deepwater Horizon Research Consortium Meeting. Mobile, AL. (Presentation)
82. Curry MD, Ramsey SK, Armsby PP, Sisco K, Prynne CL, Jackson WB, **Kwok RK**, Engel LS, Sandler DP. (2015) *Utility of a Participant Survey to Assess the Feasibility of a Follow-up Clinical Exam in the Gulf Long-Term Follow-up STUDY (GuLF STUDY)*. Society for Clinical Trials (SCT) Annual Meeting. Arlington, VA. (Presentation)
81. Gaunt EE, Dennis S, Ramsey SK, Armsby PP, Sisco K, Prynne CL, Curry MD, **Kwok RK**, Engel LS, Sandler DP. (2015) *A Centralized Approach to Mailing and Materials Distribution in the GuLF Long-Term Follow-up Study (GuLF STUDY)*. Society for Clinical Trials (SCT) Annual Meeting. Arlington, VA.
80. Prynne CL, Ramsey SK, Armsby PP, Sisco K, Curry MD, TePoel MR, Gerr F, Rohman DS, Jensen RL, **Kwok RK**, Engel LS, Sandler DP. (2015) *Use of Internet Technology for Training, Certification, and Monitoring in the Gulf Long-Term Follow-up Study (GuLF STUDY)*. Society for Clinical Trials (SCT) Annual Meeting. Arlington, VA. (Presentation)
79. Curry MD, Ramsey SK, Armsby PP, Sisco K, Prynne CL, Jackson WB, **Kwok RK**, Engel LS, Sandler DP. *Utility of a Participant Survey to Assess the Feasibility of a Follow-up Clinical Exam in the Gulf Long-Term Follow-up STUDY (GuLF STUDY)*. Society for Clinical Trials (SCT) Annual Meeting. Arlington, VA. (Presentation)
78. Ekenga CC, **Kwok RK**, Engel L, Sandler DP. *Communicating current biomonitoring results to gulf coast residents*. Gulf of Mexico Oil Spill and Ecosystem Science Conference, Houston, TX. (Presentation)

77. Gam KB, **Kwok RK**, Engel LS, Ekenga CC, Sandler DP. *Lung function in oil spill clean-up workers and non-workers in the GuLF STUDY cohort*. Gulf of Mexico Oil Spill and Ecosystem Science Conference, Houston, TX. (Presentation)
76. Groth C, Banerjee S, Ramachandran G, Stenzel M, Blair A, Engel L, Sandler D, **Kwok R**, Stewart PA. *Bivariate Left-Censored Bayesian Model for Predicting Exposure: Preliminary Analysis of Worker Exposure during the Deepwater Horizon Oil Spill*. Joint Statistical Meetings, Seattle, WA.
75. Jackson WB, Curry M, McGrath JM, Gam KB, Engel LS, **Kwok RK**, Sandler DP. *Correspondence between self-reported hypertension and measured blood pressure in the Gulf long-term follow-up study*. Annual meeting of the Society for Epidemiologic Research, Denver, CO.
74. Ramachandran G, Huynh T, Banerjee S, Groth C, Stenzel M, Blair A, Sandler DP, Engel LS, **Kwok RK**, Stewart PA. *The NIEHS GuLF STUDY: Estimate of workers' exposures through the inhalation route on four rig vessels during the Deepwater Horizon oil spill cleanup*. International Occupational Hygiene Association Meeting, London, United Kingdom
73. Strelitz J, Engel LS, **Kwok RK**, Miller A, Blair A, Sandler DP. *Oil spill cleanup work and incident cardiovascular disease in the GuLF STUDY*. Annual meeting of the International Society for Environmental Epidemiology, Sao Paulo, Brazil.
72. Armsby PP, Curry MD, Prynne CL, Chaffee RJ, McGrath JA, **Kwok RK**, Engel LS, Sandler DP. (2015) *A Randomized Pilot Study of Three Approaches to Increase Participation in the GuLF STUDY Follow-up Interview*. American Association for Public Opinion Research (AAPOR) Annual Meeting, Hollywood, FL.
71. Johndrow DA, Wachtstetter C, Martilik NM, Della Valle MP, Curry MD, Armsby PP, Prynne CL, Sisco K, **Kwok RK**, Engel LS, Sandler DP. (2015) *Development of an Integrated Data System for the Gulf Long-Term Follow-up STUDY (GuLF STUDY)*. Federal Computer Assisted Survey Information Collection (FEDCASIC). Suitland, MD. (Presentation)
70. Groth C, Banerjee S, Ramachandran G, Stenzel M, Blair A, Engel L, Sandler D, **Kwok RK**, Stewart PA (2015) *Bivariate Left-Censored Bayesian Model for Predicting Exposure: Preliminary Analysis of Worker Exposure during the Deepwater Horizon Oil Spill*. University of Minnesota's School of Public Health Research Day, Minneapolis, MN. *Won 2nd Place; Overall Ph.D. Student Abstract and Poster Presentation Award.
69. Groth C, Banerjee S, Ramachandran G, Stenzel M, Blair A, Engel L, Sandler D, **Kwok RK**, Stewart PA. (2015) *Bivariate Left-Censored Bayesian Model for Predicting Exposure: Preliminary Analysis of Worker Exposure during the Deepwater Horizon Oil Spill*. Duke University's G70 Conference, Durham, NC.

68. Sandler DP, Engel L, Miller A, Blair A, Birnbaum L, **Kwok RK**. (2015) *Respiratory symptoms in oil spill clean-up workers participating in the GuLF STUDY*. Gulf of Mexico Oil Spill and Ecosystem Science Conference, Houston, TX. (Presentation)
67. Cherrie JW, Gorman-Ng M, Stenzel MR, Sleenwenhoek A, Blair A, **Kwok RK**, Sandler DP, Engel LS, Cavallieri JM, Herrick RF, Stewart PA. *The NIEHS GuLF STUDY: Development of the GuLF DREAM tool for dermal exposure estimation*. International Epidemiology in Occupational Health (EPICOH) Conference, Chicago, IL.
66. Doherty BT, **Kwok RK**, Engel LS, Ekenga CC, Sandler DP. *Hematotoxicity of Volatile Organic Compounds in a Cohort of Oil Spill Cleanup Workers*. NIH Summer Internship Program Poster Day.
65. Gam KB, **Kwok RK**, Engel LS, Sandler DP. *Lung Function in Oil Spill Clean-up Workers and Non-workers in the GuLF STUDY*. NIH Summer Internship Program Poster Day.*
- * Won Best Student Poster.
64. Ekenga C, **Kwok, R.**, Engel, L.S., Sandler, D.P. (2014) *Communicating Current Biomonitoring Results to Gulf Coast Residents*. American Public Health Association, New Orleans, LA.
63. **Kwok, R.**, Engel, L., Miller, A., Blair, A., Sandler D. (2014) *The GuLF STUDY: Developing a 33,000 person cohort study in the wake of a disaster*. American Public Health Association, New Orleans, LA.
62. Payne, J., Blackmon, B., Curry, M., Engel, L., **Kwok, R.**, Sandler, D. (2014) *Health Status and Access to Care among Clean-up Workers in the Gulf Long Term Follow-up Study (GuLF STUDY)*. American Public Health Association, New Orleans, LA.
61. **Kwok, R.**, Engel, L. Payne, J., Ekenga, C., Miller, A., Blair, A., Sandler, D. (2014) *Mental Health Symptoms Among GuLF STUDY Participants Involved in the Deepwater Horizon Oil Spill Clean-up*. Annual International Society for Environmental Epidemiology Conference, Seattle, WA.
60. Sandler, D., Engel, L., Rose, K., Payne, J., Curry, M., Ekenga, C., Miller, A., Birnbaum, L., Blair, A. **Kwok, R.** (2014) *Respiratory Symptoms in Oil Spill Clean-up Workers Participating in the GuLF STUDY*. Annual International Society for Environmental Epidemiology Conference, Seattle, WA. (Presentation)
59. **Kwok, R.**, Engel, L., Ekenga, C., Miller, A., Blair, A., Sandler D. (2014) *Mental Health Symptoms among GuLF STUDY participants involved in the Deepwater Horizon Oil Spill Clean-up*. To be presented at the 24th International Epidemiology in Occupational Health (EPICOH) Conference, Chicago, IL.
58. Groth, C. Banerjee, S., Huynh, T., Ramachandran, G., Stenzel, M., Stewart, P., Blair, A., Engel, L., Sandler, D., **Kwok, R.** (2014) *The NIEHS GuLF STUDY: Correlations of Concentrations Between Various Oil Chemicals and Total Hydrocarbons*. To be presented at the International Epidemiology in Occupational Health (EPICOH) Conference, Chicago, IL.

57. Huynh, T., Quick, H., Ramachandran, G., Banerjee, S., Monteiro, J., Groth, C., Stenzel, M., Blair, A., Sandler, D.P., Engel, L.S., **Kwok, R.**, Stewart P.A. (2014) The GuLF STUDY: A comparison of the β -substitution and a Bayesian approach for analyzing left-censored data. To be presented at the International Epidemiology in Occupational Health (EPICOH) Conference, Chicago, IL.
 56. Ramachandran, G., Huynh, T., Groth, C., Banerjee, S., Stenzel, M., Blair, A., Sandler, D.P., Engel, L.S., **Kwok, R.**, Stewart P.A. (2014) The GuLF STUDY: Estimate of workers' exposures through the inhalation route on four rig vessels. To be presented at the International Epidemiology in Occupational Health (EPICOH) Conference, Chicago, IL.
 55. Huynh, T., Quick, H., Ramachandran, G., Banerjee, S., Monteiro, J., Groth, C., Stenzel, M., Blair, A., Sandler, D.P., Engel, L.S., **Kwok, R.**, Stewart P.A. (2014) A comparison of the β -substitution and a Bayesian approach for analyzing left-censored data. Presented at American Industrial Hygiene Conference and Exposition (AIHce) in San Antonio, TX.
 54. Groth, C., Banerjee S., Huynh, T., Ramachandran, G., Stenzel, M., Stewart, P., Sandler D., Blair, A., Engel, L., **Kwok, R.** (2014) Multivariate Bayesian Censored Models for Predicting Exposure to Multiple Chemical Agents. Presented at Eastern North American Biometric Society Conference, Baltimore, MD.
 53. Sandler, D., Ekenge, C., Engel, L., Miller, A., Chambers, D., Blair, A., **Kwok, R.** (2014) *Factors Associated with Current Chemical Exposures in Gulf Residents*. Presented at the 2014 Gulf of Mexico Oil Spill & Ecosystem Science Conference, Mobile, AL.
 52. **Kwok, R.**, Engel, L., Ekenge, C., Miller, A., Blair, A., Sandler D. (2014) *Mental Health Symptoms among GuLF STUDY participants involved in the Deepwater Horizon Oil Spill Clean-up*. Presented at the 2014 Gulf of Mexico Oil Spill & Ecosystem Science Conference, Mobile, AL.
 51. Huynh, T., Quick, H., Ramachandran, G., Banerjee, S., Monteiro, J., Groth, C., Stenzel, M., Blair, A., Sandler, D.P., Engel, L.S., **Kwok, R.K.**, Stewart P.A. (2014) *A comparison of the β -substitution and a Bayesian approach for analyzing left-censored data*. Presented at the University of Minnesota's School of Public Health Research Day, Minneapolis, MN.
 50. Groth, C., Banerjee, S., Huynh, T., Ramachandran, G., Stenzel, M., Sandler, D., Blair, A., Engel, L., **Kwok, R.**, Stewart, P. (2014) *Bivariate Hierarchical Bayesian Censored Model for Predicting Exposure: Preliminary Analysis of Worker Exposure during the Deepwater Horizon Oil Spill*. Presented at the University of Minnesota's School of Public Health Research Day, Minneapolis, MN.
- *Won Best Ph.D. Collaborative Research Project Award.
49. **Kwok, R.**, Stewart, P., Stenzel, M., Engel, L., Blair, A., Miller, A., Sandler, D. (2013) *NIEHS GuLF STUDY – Study Overview and the Exposure Assessment Process*. Presented at the 2013 Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA.

48. Ramsey, S., Gaunt, E., Blackmon, B., Curry, M., Treseder, T., Johndrow, D., **Kwok, R.**, Engel, L., Sandler, D. (2013) *Quality Control (QC) of Field-Based Pulmonary Function Testing (PFT) in the Gulf Long-Term Follow-up Study (GuLF STUDY)*. Presented at the Society for Clinical Trials, Boston, MA.
47. Ramsey, S., Gaunt, E., Blackmon, B., Curry, M., Treseder, T., Johndrow, D., **Kwok, R.**, Engel, L., Sandler, D. (2013) *Managing Performance of Field Staff in the Gulf Long-Term Follow-up Study (GuLF STUDY)*. Presented at the Society for Clinical Trials, Boston, MA.
46. Stucker, J., Ramsey, S., Gaunt, E., Rose, K., Curry, M., Miller, A., **Kwok, R.**, Sandler, D. (2013) *Challenges of Providing Medical Results to Participants in Field-Based Studies: Experiences in the Gulf Long-Term Follow-Up Study (GuLF STUDY)*. Presented at the Society for Clinical Trials, Boston, MA.
45. Cherrie, J., Ng, M.G., Stenzel, M., **Kwok, R.**, van Wendel de Joode, B., Stewart, P. (2013) *Modeling dermal exposure*. Presented at the Occupational and Environmental Exposure of Skin to Chemicals Meeting, Amsterdam, Netherlands.
44. Cherrie, J., Ng, M.G., Stenzel, M., **Kwok, R.**, van Wendel de Joode, B., Stewart, P. (2013) *Estimating dermal exposure to chemicals*. Presented at the AIHce Exposure Judgment: Improving Inhalation, Dermal & Noise Assessments, Montreal, Canada.
43. Cherrie, J., Ng, M.G., Stenzel, M., **Kwok, R.**, van Wendel de Joode, B., Stewart, P. (2013) *Estimating dermal exposure to chemicals*. Presented at the Inaugural UK & Ireland Exposure Science Meeting, Edinburgh, United Kingdom.
42. Groth, C., Banerjee, S., Ramachandran, G., Huyn, T., **Kwok, R.**, Stenzel, M., Stewart, T. (2013) *Statistical Benefits of Logging Analyte Response and Predictors*. Presented at University of Minnesota School of Public Health Research Day, Minneapolis, MN.
41. Kleeberger, C., Baker, S., Gaunt, E., Curry, M., Engel, L., **Kwok, R.**, Sandler, D. (2012) *Developing a quality specimen collection for the NIEHS GuLF STUDY*. Presented at the International Society for Biological and Environmental Repositories Conference, Vancouver, British Columbia, Canada.
40. Blackmon, B., Ramsey, S., Rose, K., Johndrow, D., Curry, M., **Kwok, R.**, Sandler, D. (2012) *Effectiveness of on-the-ground locating in reducing loss to follow-up in the Gulf Long-term Follow-up Study (GuLF STUDY)*. Presented at the American Public Health Association, San Francisco, CA.
39. Ramachandran, G., Banerjee, S., Huynh, T., Stenzel, M., Stewart, P., **Kwok, R.** (2012) *A Strategy for Assessing Inhalation Exposures in the National Institute Of Environmental Health Sciences Study Of Adverse Health Effects Among Clean-Up Workers from the Deepwater Horizon Oil Spill*. Presented at X2012, 7th International Conference on the Science of Exposure Assessment, Edinburgh, UK.

38. Ramachandran, G., Huynh, T., Stenzel, M., Stewart, P., **Kwok, R.** (2012) Bias and Error in Several Methods for Estimating Arithmetic Means of Heavily Left-Censored Data and their Application to Data from the National Institute of Environmental Health Sciences GuLF STUDY. Presented at X2012, 7th International Conference on the Science of Exposure Assessment, Edinburgh, UK.
37. Stewart P.A., Stenzel, M.R., McDowell, W., Engel, L.S., **Kwok, R.K.**, Blair, A., Cherrie, J., Ng, M.G., Sleuwenhoek, A., Banerjee, S., Huynh, T., Monteiro, J., Ramachandran, G., Sandler, D.P. (2012) The GULF STUDY: Overview of the Exposure Assessment Strategy. Presented at X2012, 7th International Conference on the Science of Exposure Assessment, Edinburgh, UK.
36. Ng, M.G., Cherrie, J.W., Stenzel, M., **Kwok, R.**, van Wendel de Joode, B., Stewart, P. (2012) *Development of the DREAM model for dermal exposure assessment of oil clean-up workers in the GuLF Study.* Presented at X2012, 7th International Conference on the Science of Exposure Assessment, Edinburgh, UK.
35. Cherrie, J.W., Ng, M.G., Stenzel, M., **Kwok, R.**, van Wendel de Joode, B., Stewart, P. (2012) *Calibration of the DREAM model for the dermal exposure assessment of workers in the National Institute of Environmental Health Sciences GuLF Study.* Presented at X2012, 7th International Conference on the Science of Exposure Assessment, Edinburgh, UK.
34. Stewart, P., Stenzel, M., McDowell, W., Engel, L.S., **Kwok, R.K.**, Blair, A., Cherrie, J., Ng, M.G., Sleuwenhoek, A., Banerjee, S., Huynh, T., Monteiro, J., Ramachandran, G., Sandler, D.P. (2012) *NIEHS GuLF STUDY – Overview of the Exposure Assessment Strategy.* Presented at the AIHce Annual Meeting, Indianapolis, IN.
33. Stenzel, M., Ramachandran, G., Huynh, T., **Kwok, R.**, Stewart, P. (2012) *NIEHS Gulf STUDY — Exposure Assessment Techniques and Preliminary Findings.* Presented at the AIHce Annual Meeting, Indianapolis, IN.
32. Huynh, T., Ramachandran, G., Banerjee, S., Monteiro, J., Stewart, P.A., Stenzel, M., **Kwok, R.** (2012) *Comparison of Methods for Analyzing Heavily Left-Censored Data to Estimate Workers' Exposure in the GuLF STUDY.* Presented at the AIHce Annual Meeting, Indianapolis, IN.
31. **Kwok, R.**, Engel, L., Stewart, P., Stenzel, M., Blair, A., Ramachandran, G., Banerjee, S., McDowell, W., Cherrie, J., Ng, M., Miller, A., Sandler, D. (2011) *The GuLF STUDY: Methodologic Considerations in Using Existing Environmental and Personal Measurements for Exposure Assessment using Questionnaire Data.* Presented at the International Society for Environmental Epidemiology, Barcelona, Spain.
30. Sandler, D., **Kwok, R.**, Engel, L., Miller, A., Blair, A. (2011) *Studying Potential Health Effects in Clean-up Workers Involved in the Gulf of Mexico Deepwater Horizon Oil Spill: The GuLF STUDY.* Presented at the International Society for Environmental Epidemiology, Barcelona, Spain.

29. Engel, L.S., Stenzel, M., Stewart, P., **Kwok, R.**, Miller, A., Blair, A., Sandler, D. (2011) *Capitalizing on Available Monitoring Data to Inform Exposure Assessment in the GuLF STUDY*. Presented at the International Society for Environmental Epidemiology, Barcelona, Spain.
28. Ng, M.G., Stewart, P., Stenzel, M., **Kwok, R.**, Cherrie, J.W. (2011) *Dermal exposure assessment for the NIEHS 'Gulf Long-Term Follow-Up Study for Oil Spill Clean-Up Workers and Volunteers.'* Presented at the Occupational and Environmental Exposure of Skin to Chemicals, Toronto, Canada.
27. **Kwok, R.** (2010). *Long-term Follow-up Study of Gulf Oil Spill Clean-up Workers: Data Collection and Cohort Surveillance and Maintenance*. Presented at the Institute of Medicine, Board on Population Health and Public Health Practice, Special Committee to Review the Federal Response to the Health Effects Associated with the Gulf of Mexico Oil Spill, Tampa, FL.
26. **Kwok, R.** (2010). *Long-term Follow-up Study of Gulf Oil Spill Clean-up Workers*. Presented at the State Health Officer's Regional Meeting, Atlanta, GA.
25. Sanders, W. E., Jr., Wade, T. J., Mo, J., Wu, K., Xia, Y., **Kwok, R.**, Yang, Z., Foster, J., Mumford, J. L. (2009). *Cardiac Effects of Chronic Arsenic Exposure: Risks and Mechanism of Acquired Long QT Syndrome in a Large Population Based Study*. *Journal of Cardiovascular Electrophysiology*. 20(Suppl 1), S67-S68.
24. Goldman, L., Wagener, D. K., Haines, J., **Kwok, R.**, Maiese, D., Phillips, M. J., Ramos, E., Junkins, H., & Hamilton, C. (2009). *Consensus of environmental exposure measures for genome-wide association studies (GWAS)*. Presented at International Society of Exposure Science, Minneapolis, MN.
23. Hamilton, C., Strader, L. C., Pratt, J. G., Hammond, J. A., Hendershot, T., Huggins, B. W., Jackman, D. A., **Kwok, R. K.**, Maiese, D., Nettles, D. S., Pan, H., Zmuda, M. S., Junkins, H., Li, R., Ramos, E., Harlan, W., & Haines, J. (2009). *The PhenX toolkit – get the most from your measures*. Poster presented at American Society of Human Genetics, Honolulu, HI.
22. Hamilton, C.M., Strader, L.C., Pratt, J, Hammond, J., Hendershot, T., Huggins, W., Jackman, D., **Kwok, R.**, Maiese, D., Nettles, D., Pan, H., Zmuda, M., Junkins, H., Li, R., Ramos, E., Harlan, W., Haines, J. (2009). *The PhenX Toolkit – Get the Most from Your Measures*. Presented at the International Genetic Epidemiology Society (IGES) Annual Meeting, Kahuku, HI,
21. Hamilton, C. M., Ramos, E., **Kwok, R.**, Maiese, D., Wagener, D., Jackman, D. A., Zmuda, M. S., Nettles, D. S., Harlan, W., & Hainfeld, J. (2009). *PhenX: Consensus measures to facilitate cross-study analyses for genome-wide association studies*. Presented at American Informatics Association (AMIA) meetings, San Francisco, CA.

20. Pearson, T., Harlan, W., Wagener, D., Haines, J., **Kwok, R.**, Maiese, D., Richa, N. R., Hendershot, T., Ramos, E., & Hamilton, C. (2009). *Consensus measures for genome-wide association studies of cardiovascular outcomes*. Poster presented at Joint Conference - 49th Cardiovascular Disease Epidemiology and Prevention Annual Conference, and Nutrition, Physical Activity and Metabolism Conference, Palm Harbor, FL.
19. Wagener, D., Haines, J., Harlan, W., **Kwok, R.**, Maiese, D., Ramos, E., & Hamilton, C. (2008). *Consensus measures for genome-wide association studies of common diseases*. Presented at Genomics of Common Diseases, Boston, MA.
18. Cockburn, M., Bonham, V., Carter-Pokras, O., Gee, G., Kington, R., Lange, N., Makuc, D., Kraft, P., Phillips, M., **Kwok, R.**, Maiese, D., Wagener, D., Ramos, E., & Hamilton, C.M. (2008). *PhenX: Demographic measures for cross-study analyses*. Paper presented at the 2008 American Society of Human Genetics, Philadelphia, PA.
17. Hamilton, C. M., Ramos, E., **Kwok, R.**, Maiese, D., Wagener, D., Harlan, W.R., & Haines, J. (2008) *PhenX: Consensus measures to facilitate cross-study analysis for genome-wide association studies*. Paper presented at the 2008 American Society of Human Genetics, Philadelphia, PA.
16. Wagener, D., Haines, J., Harlan, W., **Kwok, R.**, Maiese, D., Ramos, R., Nettles, D., & Hamilton, C., for the PhenX Steering Committee (2008). *Consensus measures for genome-wide association studies of common diseases*. Paper presented at the Genomics of Common Disease 2008 meeting, Cambridge, MA.
15. **Kwok, R. K.**, Fears, T., Kleinerman, R. A., Freedman, D. M., Alexander, B. H., Kampa, D., Johnson, R. E., & Linet, M. S. (2006). *Assessing activities associated with time spent outdoors in an occupational cohort of radiologic technologists*. Paper presented at the 2006 Congress of Epidemiology, Seattle, WA.
14. Calderon RL, Carty C, Hudgens E, **Kwok R**, Mumford J, Otto D, Prah J, Sams R, Schmitt M, Thomas D. (2004). *Low dose US arsenic epidemiology studies: Integrating biomarkers of effects, susceptibility and exposure*. Paper presented at the U.S. EPA NHEERL Division Review, Research Triangle Park, NC.
13. Lobdell DT, Ning Z, **Kwok RK**, Mumford JL, Liu ZY, Mendola P. (2004). *Drinking water arsenic and perinatal outcomes*. Paper presented at the 2004 Annual Meeting of the Society for Epidemiologic Research, Salt Lake City, UT.
12. Lobdell D, Liu Z, **Kwok RK**, He L, Yang M, Mumford JL, Mendola P. (2004). *Pregnancy and perinatal health, Bamen, inner Mongolia, China*. Paper presented at the 2004 Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research, Salt Lake City, UT.
11. Lobdell DT, Ning Z, **Kwok RK**, Mumford J, Liu ZY, Mendola P. (2004). *Pregnancy and perinatal outcomes in relation to drinking water arsenic exposure in Bamen, inner Mongolia, China*. Paper presented at the 2004 Annual Meeting of the International Society for Environmental Epidemiology, New York, NY.

10. **Kwok RK**, Mendola P, Ning ZX, Liu ZY, Mumford JL. (2002). *Estimating residential exposure to drinking water arsenic in inner Mongolia, China for epidemiologic studies*. Paper presented at the 2002 Annual Meeting of the American College of Epidemiology, Albuquerque, NM. Also in *Annals of Epidemiology*, 12(7), 528–529.
9. **Kwok RK**, Mumford JL, Mendola P, Xia YJ, He LL, Liu ZY. (2002). *Health effects of chronic exposure to arsenic via drinking water in inner Mongolia: VI. Developmental effects*. Paper presented at the Society for Environmental Geochemistry and Health, Fifth International Conference on Arsenic Exposure and Health Effects, San Diego, CA.
8. Ning ZX, **Kwok RK**, Liu ZY, Zhang SY, Ma CL, Riediker M, Mumford JL. (2002). *Health effects of chronic exposure to arsenic via drinking water in inner Mongolia: IV. Distribution of arsenic concentrations in wells*. Paper presented at the Society for Environmental Geochemistry and Health, Fifth International Conference on Arsenic Exposure and Health Effects, San Diego, CA.
7. **Kwok RK**, Wu K, Xia YJ, Ma H, Mumford JL. (2001). *Neural effects due to chronic exposure to arsenic via drinking water*. Paper presented at the Annual Meeting of the Society for Epidemiologic Research, Toronto, Ontario, Canada. Also in *American Journal of Epidemiology*, 153(11), S274.
6. Creason J, Soukup J, **Kwok RK**, Williams R, Rhoney S, Becker S. (2000). *Indoor and outdoor endotoxin concentrations measured on PM_{2.5} and pm10 24-hour filters collected during a four-week panel study of the elderly in Baltimore, MD*. Paper presented at the PM2000: Particulate Matter and Health Specialty Conference, Charleston, SC.
5. **Kwok RK**, Ma H, Wu K, Xia YJ, Li Y, Mumford JL, Calderon RL. (2000). *Health risks from chronic exposure to arsenic via drinking water: Findings from the clinical investigations data in inner Mongolia, China*. Paper presented at the Society for Environmental Geochemistry and Health, Fourth International Conference on Arsenic Exposure and Health Effects, San Diego, CA.
4. Zufall M, Burke J, Williams R, Suggs J, **Kwok RK**, Walsh D, Sheldon L. (2000). *Effects of human activity patterns on personal PM_{2.5} concentrations of residents in a Baltimore retirement facility*. Paper presented at the PM2000: Particulate Matter and Health Specialty Conference, Charleston, SC.
3. Williams R, Creason J, Zweidinger R, Suggs J, **Kwok RK**, Sheldon L. (1999). *Exposure analysis of the US EPA particulate matter study*. *Epidemiology*, 10, S66.
2. Creason J, Walsh D, **Kwok RK**, Shy C, Neas L. (1998). *Health effects of air pollution in the elderly: Methods for conducting a panel study*. Paper presented at the U.S. EPA, NHEERL Research Symposium, Research Triangle Park, NC.
1. **Kwok RK**, Nylander-French L, Crawford-Brown D. (1997). *Risk of lung and nasal cancer in nickel refinery workers*. Undergraduate thesis presented in the Department of Environmental Science and Engineering, School of Public Health, UNC-Chapel Hill, Chapel Hill, NC.

Invited Symposia and Seminar Presentations

43. Miller A, **Kwok R.** (2017) *NIEHS Disaster Research Response Program: Resources and Information to Empower Timely Public Health Data*. Invited Presentation at the 76th Annual Meeting of the Japan Society of Public Health, Kagoshima, Japan.
42. **Kwok R,** Miller, A. (2017) *NIEHS Disaster Research: GuLF STUDY and DR2*. Invited Presentation. Japan National Institute for Environmental Studies, Tokyo, Japan.
41. **Kwok R.** (2017) *Epidemiology and the Investigation of the Human Health Effects of the Deepwater Horizon Oil Spill*. Invited Presentation. Science, Teachers, & Research Summer Institute, National Institute of Environmental Health Sciences, Research Triangle Park, NC.
40. **Kwok RK.** (2017) *Reporting Test Results to Participants: A Case Study from the GuLF STUDY*. Invited Presentation. Extreme Personal Exposure Biomarker Levels: Guidance for Investigators Workshop. American College of Epidemiology, New Orleans, LA.
39. **Kwok RK.** (2017) *Investigating the Human Health Effects of the Deepwater Horizon Disaster*. Invited Presentation. One Health Intellectual Exchange Group, a Duke, NCSU, and UNC joint collaboration. NC Biotechnology Center, Durham, NC.
38. **Kwok R,** Engel LS, Miller AK, Sandler DP. (2016) *A Long-term Health Study Following the Deepwater Horizon Disaster*. Invited Presentation. Environmental Health Science FEST. National Institute of Environmental Health Sciences, Durham, NC.
37. **Kwok R,** Engel LS, Miller AK, Sandler DP. (2016) *The GuLF STUDY: A Long-term Study of Workers Involved in Oil Spill Response and Clean-up*. Invited Presentation. Workshop on Data Needs for Assessing Stress and Health Effects Associated with Oil Spills and Hurricanes in the Gulf of Mexico. College of Charleston, Charleston, SC
36. **Kwok R.** (2016) *The GuLF STUDY: Epidemiology and the Investigation of the Human Health Effects of the Deepwater Horizon Oil Spill*. Invited Presentation. Science, Teachers, & Research Summer Institute, National Institute of Environmental Health Sciences, Research Triangle Park, NC.
35. **Kwok R.** (2015) *Investigating the Potential Human Health Effects of the BP / Deepwater Horizon Oil Spill*. Invited Presentation. College of Public Health and Health Professions, University of Florida, Gainesville, FL.
34. **Kwok R.** (2015) *The NIEHS GuLF STUDY: Investigating the Potential Human Health Effects of the BP / Deepwater Horizon Oil Spill*. Invited presentation. Center for Human Health and the Environment, Department of Biological Sciences, North Carolina State University, Raleigh, NC.

33. **Kwok R.** (2015) *Epidemiology and the GuLF STUDY: An Investigation of the Human Health Effects of the Deepwater Horizon Oil Spill*. Invited Presentation. Science, Teachers, & Research Summer Institute, National Institute of Environmental Health Sciences, Research Triangle Park, NC.
32. **Kwok R.** (2014) *NIH Gulf Oil Spill & Disaster Research Response Efforts*. Invited presentation. Oil Spill Response Forum, UNH Center for Spills in the Environment and School of Marine Science and Ocean Engineering, University of New Hampshire, Durham, NH
31. **Kwok R.** (2014) *The GuLF STUDY: Investigating the Human Health Effects of the BP / Deepwater Horizon Oil Spill*. Invited presentation. Duke Global Health Institute, Global Health Exchange Lecture, Duke University, Durham, NC.
30. Sandler DP, **Kwok RK.** (2014) *Design, challenges, and preliminary observations on the health of oil spill clean-up workers*. Invited presentation. Louisiana State University Health Sciences Center Epidemiology Seminar Series, New Orleans, LA.
29. **Kwok R**, Engel L, Sandler D. (2013) *The GuLF STUDY: An Ongoing Investigation into the Deepwater Horizon Oil Spill*. Invited presentation at the University of Cincinnati, Dept. of Environmental Health Seminar Series, Cincinnati, OH.
28. **Kwok RK.** (2012). *The GuLF STUDY: Challenges and Opportunities in Investigating the Human Health Effects of the BP Oil Spill / Deepwater Horizon Disaster*. Invited Presentation. University of North Carolina at Chapel Hill, Dept. of Epidemiology Cardiovascular Disease Seminar Series, Chapel Hill, NC.
27. **Kwok RK.** (2012). *Human Health and Deepwater Horizon*. Invited presentation at the Gordon Research Conferences: Oceans & Human Health, University of New England, Biddeford, ME.
26. **Kwok RK.** (2012). *Disaster Epidemiology: Research and Response*. Invited presentation for the Dept. of Epidemiology, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC.
25. **Kwok RK**, Engel LS. (2011). *Disaster Epidemiology: Incorporating Lessons Learned from Retrofitting Research in the Context of Disaster Response*. Symposium Presentation at the 3rd North American Congress of Epidemiology, Montreal, Canada.
24. **Kwok RK.** (2011). *The GuLF STUDY. A health study for oil spill clean-up workers and volunteers*. Invited presentation at the University of Michigan Risk Science Center, Risk Science Unplugged presents Gulf Oil, Ann Arbor, MI.
23. **Kwok RK.**, Ramos EM. (2010). *Opportunities and Obstacles with Genome Wide Association Studies (GWAS)*. Symposium presentation presented at the American Public Health Association Annual Meeting, Denver, CO.

22. **Kwok RK**, Hamilton CM, Strader LC, Pratt J, Hammond J, Hendershot T, Huggins W, Jackman D, Maiese D, Nettles D, Pan H, Zmuda M, Junkins H, Li R, Ramos E, Harlan W, Haines J. (2010). *Analysis of GWAS: Opportunities and Obstacles*. Invited Presentation. American Public Health Association Annual Meeting, Denver, CO.
21. **Kwok RK**, Hamilton CM, Strader LC, Pratt J, Hammond J, Hendershot T, Huggins W, Jackman D, Maiese D, Nettles D, Pan H, Zmuda M, Junkins H, Li R, Ramos E, Harlan W, Haines J. (2010). *Methodologic approaches researchers have used to overcome challenges and address opportunities associated with GWAS*. Invited Presentation. American Public Health Association Annual Meeting, Denver, CO.
20. **Kwok RK**, (2010). *The role of environmental epidemiology at US EPA: past, present, and a vision for the future*. Invited presentation. National Health and Environmental Effects Research Laboratory, Office of Research and Development, US EPA, Chapel Hill, NC.
19. **Kwok RK**. *Arsenic*. (2009). Invited presentation at the Nicholas School of the Environment, Duke University, Durham, NC.
18. **Kwok RK**. *The challenge of retrospective collection of time, activity, and location data in epidemiologic studies of skin cancer: experiences from the UV Dosimetry Study*. (2009). Invited presentation at the National Center for Environmental Assessment, US EPA, Research Triangle Park, NC.
17. Hamilton CM, **Kwok R**. (2009). *PhenX: Consensus Measures for Phenotypes and eXposures*. Invited presentation at National Institute of Environmental Health Sciences Session, RTP, NC.
16. **Kwok RK**, Hoppin JA. (2008). *Personal exposure assessment tools for use in large scale epidemiologic studies*. Symposium presentation at the Joint Conference of the International Society for Environmental Epidemiology & International Society of Exposure Analysis, Pasadena, CA.
15. **Kwok RK**. (2008). *Searching for the environmental and genetic causes of childhood cancer*. Invited presentation at the Population Medicine Forum, College of Veterinary Medicine, North Carolina State University, Raleigh, NC.
14. Dwyer T, **Kwok RK**. (2007). *An update from the international childhood cancer cohort consortium initiative*. Presented at Grand Rounds, Royal Children's Hospital, Parkville, Melbourne, Australia.
13. **Kwok RK**. (2007). *Improving sun exposure measures for skin cancer studies: Efforts from a pilot study using the U.S. radiologic technologist cohort*. Invited presentation to the Menzies Research Institute, University of Tasmania, Hobart, Australia.
12. **Kwok RK**. (2007). *Improving sun exposure measures for skin cancer studies: Efforts from a pilot study using the U.S. radiologic technologist cohort*. Invited presentation to the Murdoch Children's Research Institute, Royal Children's Hospital, Melbourne, Australia.

11. **Kwok RK.** (2007). *The international childhood cancer cohort consortium initiative.* Invited presentation to the Children's Cancer Institute, University of New South Wales, Randwick, Sydney, Australia.
10. **Kwok RK.** (2007). *The international childhood cancer cohort consortium initiative: Cohort data collection variable and timing.* Invited presentation at the International Childhood Cancer Cohort Consortium Workshop, World Health Organization, Copenhagen, Denmark.
9. **Kwok RK.** (2007). *The international childhood cancer cohort consortium initiative: Creation of a data dictionary and core protocols for future analyses.* Invited presentation at the International Childhood Cancer Cohort Consortium Workshop, World Health Organization, Copenhagen, Denmark.
8. **Kwok RK.** (2007). *The use of newborn blood spots in epidemiologic research.* Invited presentation to the Murdoch Children's Research Institute, Royal Children's Hospital, Melbourne, Australia.
7. **Kwok RK.** (2006). *Arsenic as a reproductive toxin: Data from Bangladesh and Inner Mongolia, China.* Invited presentation at the U.S. EPA International Workshop on Arsenic Research and Risk Assessment, Shepherdstown, WV.
6. **Kwok RK.** (2006). *The non-cancerous health effects of arsenic: Evidence from China and Bangladesh.* Invited presentation to U.S. EPA, Region 10, Seattle, WA.
5. Pattanayak SK, Patil SR, Yang J, Poulos C, Corey CG, Jones KM, Vinerkar S, **Kwok RK**, Isac S. (2006). *Child health, rural livelihoods and the environment in Maharashtra: Role of water, sanitation and hygiene.* Invited presentation at Maharashtra Government and World Bank Joint Workshop on Water, Sanitation, and Environmental Health, Mumbai, India.
4. Pattanayak SK, Yang J, Patil SR, Dickinson KL, Poulos C, Jones KM, Corey CG, **Kwok RK**, Isac S. (2006). *An information, education, and communication campaign to promote sanitation and child health in bhadrak: Status report and baseline data.* Invited presentation at Government of Orissa and World Bank Joint Workshop on Water, Sanitation, and Environmental Health, Bhubaneswar, India.
3. Pattanayak SK, Yang J, Patil SR, Lvovsky K, Poulos C, Jones KM, Corey CG, **Kwok RK**, Jha N, Isac S, Kumar P. (2006). *Child health, rural livelihoods, and the environment in India: Role of water, sanitation and hygiene.* Invited presentation at Indo-U.S. Workshop on Environmental Health Issues and Water and Sanitation, Kolkata, India.
2. **Kwok RK**, Mendola P, Liu ZY, Savitz DA, Heiss G, He LL, Xia Y, Lobdell D, Zeng D, Thorp JM Jr., Creason JP, Mumford JL. (2004). *Changes in blood pressure during pregnancy associated with drinking water arsenic exposure in inner Mongolia, China, 1997–1999.* Invited paper presentation at the 2004 Annual Meeting of the American College of Epidemiology, Boston, MA.

**American College of Epidemiology, Student Prize Paper Award Presentation*

1. **Kwok R.** (2003) *Blood pressure changes associated with Drinking Water Arsenic Exposure in Inner Mongolia, China.* Invited Presentation at the National Institute of Environmental Health Sciences, Research Triangle Park, NC.