

**Paul D. Juarez, PhD, Professor of Family and Community Medicine and Director of the Health Disparities Research Center of Excellence at Meharry Medical College**



Dr. Juarez is nationally recognized for his research in health disparities, particularly in the area of injury prevention, and for using community based participatory research methods. He was appointed in December 2016 as Chair, Advisory Committee on Minority Health, Office of Minority Health, and US Department of Health and Human Services. Dr. Juarez has been at the forefront nationally in using the exposome paradigm to identify the mechanisms and pathways through which environmental exposures 'get under the skin.' He has led a transdisciplinary team that has pioneered efforts that look at the effects of the natural, built, and social environments on health and health disparities at critical developmental periods across the lifespan and in applying "big data" computational methods and analytics to population health. Dr. Juarez has published widely on topics of the exposome, youth violence, health equity, and community engagement.

Juarez, P.D., Hood, D.B., Rogers, G.L., Baktash, S.H., Saxton, A.M., Matthews-Juarez, P., Im, W., Cifuentes, M.P., Phillips, C.A., Lichtveld, M.Y., Langston, M.A. A Novel Approach to Analyzing Lung Cancer Mortality Disparities: Using the Exposome and a Graph-Theoretical Toolchain. (2017). Under review. American Journal of Public Health.

Clark, R.S., Pellom, S.T.; Booker, B.; Ramesh, A.; Zhang, T.; Shanker, A.; Maguire, M.; Juarez, P.D.; Matthews-Juarez, P.; Langston, M.A.; Lichtveld, M.Y.; Hood, D.B. Validation of research trajectory 1 of an Exposome framework: Exposure to benzo(a)pyrene confers enhanced susceptibility to bacterial infection. Environmental Research, 2016. 146:173184. PMID: 26765097

Oyanna, T.J.; Matthews-Juarez, P.; Cormier, S.A.; Xu, X.; Juarez, P.D. Using an External Exposome Framework to Examine Pregnancy-Related Morbidities and Mortalities: Implications for Health Disparities Research. Int. J. Environ. Res. Public Health 2016, 13(1), 13; doi: 10.3390/ijerph13010013. PMID: 26703702

Anand, K.J.; Sepanski, R.J.; Giles, K.; Shah, S.H.; Juarez, P.D. Decreased pediatric intensive care unit mortality among Latino children after a multilevel health care delivery intervention. JAMA Pediatr. Doi:10.1001/jamapediatrics.2104.3789. Published online February 23, 2015.

Juarez, P.D.; Matthews-Juarez, P.; Hood, D.; Im, M.; Levine, R.S.; Kilbourne, B.J.; Langston, M.A.; Alhamdan, M.Z.; Crosson, W.L.; Estes, M.G.; Estes, S.; Agboto, V.; Robinson, P.; Wilson, S.; Lichtveld M.Y. The Public Health Exposome: A Population-based, Exposure Science Approach to Health Disparities Research. Int. J. Environ. Res. Public Health 2014. 11(12), 12866-12895. doi: 10.3390/ijerph111010444.

Kershenbaum, A.D.; Langston, M.A.; Levine, R.S.; Saxton, A.M.; Oyana, T.J.; Kilbourne, B.J.; Rogers, G.L.; Gittner, L.S.; Baktas, S.H.; Matthews-Juarez, P.; Juarez, P.D. Exploration of preterm birth rates using the public health exposome database and computational analysis methods. Int. J. Environ. Res. Public Health, 2014. 11(12), 12346-12366; doi: 10.3390/ijerph111212346.

Langston, M.A.; Levine, R.S.; Kilbourne, B.J.; Rogers, G.L. Jr.; Kershenbaum, A.K.; Baktash, S.H.; Coughlin, S.S.; Saxton, A.S.; Agboto, V.; Hood, D.B.; Lichtveld, M.Y.; Oyana, T.; Matthews-Juarez, P.; Juarez, P.D.

(2014). Scalable Combinatorial Tools for Health Disparities Research. *Int. J. Environ. Res. Public Health*, 11(10):10410-10413.

Coughlin, S. S., Matthews-Juarez, P., Juarez, P.D., Melton, C. E. and King, M. (2014), Opportunities to address lung cancer disparities among African Americans. *Cancer Medicine*. Article first published online: 14 Sept 2014 | DOI: 10.1002/cam4.348.

Matthews-Juarez, P., Juarez, P.D., Faulkner, R.T. (2013). Social Media and Military Families: A Perspective. *Journal of Human behavior in the Social Environment*. 23(6): 769-776.

Sheats JL, Middlestadt SE, Ona FF, Juarez P.D., Kolbe LJ. (2013). Understanding African American Women's Decisions to Buy and Eat Dark Green Leafy Vegetables: An Application of the Reasoned Action Approach. *J Nutr Educ Behav*. doi:pii: S1499-4046(13)00580-0. Juarez, P.D. (2013). Sequencing the Public Health Genome. *Journal of Health Care for the Poor and Underserved*. Supplement: Achieving Health Equity and Environmental Justice. 24(1). 114-120. doi: 10.1353/hpu.2013.0035.

Chen, C.K., Bruce, M., Tyler, L., Brown, C., Garrett, A., Goggins, S., Lewis-Polite, B., L Weriwoh, M., Juarez, P.D., Hood, D.B. (2013). Analysis of an Environmental Exposure Health Questionnaire in a Metropolitan Minority Population Utilizing Logistic Regression and Support Vector Machines. *Journal of Health Care for the Poor and Underserved*. 24, 154–172. doi: 10.1353/hpu.2013.0046.

Levine RS, Rust G, Aliyu M, Pisu M, Zoorob R, Goldzweig I, Juarez P, Husaini B, Hennekens CH. United States counties with low black male mortality rates. *Am J Med*. 2013. Jan; 126(1):76-80. doi: 10.1016/j.amjmed.2012.06.019.

#### Book Chapters

Juarez, PD (Invited book chapter). The public health exposome. (Sonia Dagnino & Anthony Macherone (Eds). *Unraveling the Exposome*. Springer. 2017.

Levine, R.S., Kilbourne, B.J., Kihlbert, C.J., Emerson, J.S., Goldzweig, I. Juarez, P., & Zoorob, R. Military and Divilian Approaches to the U.S. Obesity Epidemic. *Obesity Interventions in Underserved Communities*. (Virginia M. Brennan, Shiriki K. Kumanyika, & Ruth Enid Zambrana (Eds.). Baltimore, Johns Hopkins University Press, 2014.

Juarez, PD. Environmental Context of Violent Crime. (2013). In: *Epidemiologic Criminology: Theory to Practice*, Waltermaurer, Eve & Akers, Tim, (Eds.). United Kingdom: Routledge.