



## Irva Hertz-Picciotto, Ph.D.

### Clinical Interests

Irva Hertz-Picciotto is an internationally renowned environmental epidemiologist with more than 200 scientific publications addressing environmental exposures, their interactions with nutrition, and their influences on pregnancy, the newborn, and child development. She leads a program of interdisciplinary research on the environmental contributors to autism and other neurodevelopmental disorders, as well as mechanisms of pathogenesis. Studies involve collaborations with immunology, molecular biology and microbiology, genomics, environmental sciences, nutrition and biostatistics.

Hertz-Picciotto launched the CHARGE Study, the first large, comprehensive population-based study of environmental factors in autism, and the landmark MARBLES study of early environmental and biologic predictors of autism. She also collaborates on the multi-site EARLI study of risk factors for autism spectrum disorders, and directs the Northern California Center for the National Children's Study.

Beyond the autism program, other projects have focused on exposure-related behaviors, polychlorinated biphenyls and pesticides in relation to early growth and development, lead exposures during pregnancy, and the relation of air pollutants to immune development and early acute respiratory illness.

Hertz-Picciotto has chaired or served several state, national and international advisory panels and was elected president of two of the largest professional epidemiology societies. She sits on editorial boards for major scientific journals in epidemiology, environmental health, and autism and has taught epidemiologic methods on four continents. In 2011, she received the Goldsmith Lifetime Achievement Award by the International Society for Environmental Epidemiology.

### Title

Deputy Director, UC Davis Children's Center for Environmental Health  
Director, Northern California Collaborative Center for the National Children's Study  
Director, Program in Environmental Epidemiology of Autism  
Professor of Epidemiology and Chief, Division of Environmental and Occupational Health

### Specialty

Child Development, Preventive Medicine/Epidemiology, Public Health Sciences,  
Reproductive/perinatal Health

### Department

Public Health Sciences

### Division

Public Health Sciences

### Center/Program Affiliation

[UC Davis MIND Institute](#)



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| <b>Address/Phone</b>            | UC Davis School of Medicine - Medical Sciences 1C, Davis, CA 95616   |
| <b>Languages</b>                | French, Spanish  |
| <b>Education</b>                | Ph.D., M.P.H., UC Berkeley School of Medicine, Berkeley, California, 1989<br>B.A., UC Berkeley, Berkeley, California, 1970<br>M.P.H., UC Berkeley, Berkeley, California, 1984<br>M.A., UC Berkeley, Berkeley, California, 1985   |
| <b>Professional Memberships</b> | American Epidemiological Society, elected 2002-present<br>International Society for Autism Research, 2007-present<br>International Society for Environmental Epidemiology (Founding member), 1988-present, President 2002-2003<br>Society for Epidemiologic Research, 1983-present, President 2005-2006  |
| <b>Honors and Awards</b>        | Health Hero of 2012, Category: Researcher, Sacramento Business Journal., 2012<br>Lifetime Achievement Award: John Goldsmith Award for Sustained and Outstanding Contributions to Environmental Epidemiology, bestowed by the ISEE (International Society for Environmental Epidemiology). Invitation to deliver the Keynote John Goldsmith Memorial Award presentation at the annual ISEE meeting in Barcelona, Spain, September 2011., 2011<br>Top Ten Papers of 2011 by NIEHS, and by Autism Speaks, as senior author of: Schmidt et al. The combined effects of maternal prenatal vitamin intake and common functional gene variants in folate and transmethylation pathways on risk for autism spectrum disorders in the CHARGE study. Epidemiology 22:476-485. PMID 21610500, 2011<br>The Epidemiology Monitor Editor's Picks, March 2009 - Best Selections www.epimonitor.net, "Researchers Suggest Increase in California Autism Cases Is Real." Citation for Hertz-Picciotto Delwiche, Epidemiology 2009 paper, 2009<br>Jubilee Medal, Scientific Board of the Slovak Medical University in Bratislava, Celebration of institutional postgraduate education of health care professionals in Slovakia, 2008<br>UPI's (United Press International) "Quote of the Year" by Dan Olmsted Washington, DC, 2006<br>NCI Distinguished Lecturer in Occupational and Environmental Cancer, National Cancer Institute, Occupational and Environmental Epidemiology Branch, Division of Cancer Epidemiology and Genetics, 2004<br>NAS/NRC Lifetime Appointment as National Associate of the National Academies; awarded by the National Academy of Sciences and National Research Council, 2002<br>McGavran Award for Excellence in Teaching, School of Public Health, University of North |



## Irva Hertz-Picciotto, Ph.D.

Carolina, Chapel Hill, 2001

Delta Omega Honorary Public Health Society, Theta Chapter, 1998

First prize for investigation in "Public Health and Social Sciences" Secretary of Health through the Director of the NIH of Mexico, 1997

NAS (National Academy of Sciences) Young Investigator Program Awardee, Program on Environmental Health in the Donetsk Region of Ukraine, 1997

Abraham Lilienfeld Student Prize Paper, Best Doctoral Dissertation of the Year, Society for Epidemiologic Research, 1988

Society for Epidemiologic Research Student Workshop Participant, "A Positive Use of Negative Epidemiologic Studies", 18th Ann. Mtg., Chapel Hill, NC, 1985

### Select Recent Publications

Chaidez V, Hansen R, Hertz-Picciotto I. (epub 7 Mar 2012) Autism spectrum disorders in Hispanics and non-Hispanics. *Autism: The International Journal of Research and Practice* 2012;16(4): 381-397.

Howards PP, Hertz-Picciotto I, Bech BH, Nøhr EA, Anderson AMN, Poole C, Olsen J. Spontaneous abortion and a diet drug containing caffeine and ephedrine. *PLoS ONE* November 16, 2012.

Krakowiak P, Walker CK, Bremer AA, Baker AS, Ozonoff S, Hansen RL, Hertz-Picciotto I (epub 9 Apr 2012). Maternal metabolic conditions and risk for autism and other neurodevelopmental disorders. *Pediatrics* 129(5):e1121-8x.

Paper of the Month for April 2012 by NIEHS, as senior author: Krakowiak et al. Maternal metabolic conditions and risk for autism and other neurodevelopmental disorders. *Pediatrics* 2012; 129(5):31121-8x.

Schmidt RJ, Hansen RL, Hertz-Picciotto I (epub May '12). Maternal periconceptional folic acid intake and risk for autism spectrum disorders in the CHARGE case-control study. *Am J Clin Nutrition* 2012 Jul;96(1):80-9.

Vogt R, Cassady D, Frost J, Bennett DH Hertz-Picciotto I. An assessment of exposures to toxins through diet among California residents. *Environ Health* 2012;11:83

Tassone F, Qi L, Zang W, Hansen R, Pessah I, Hertz-Picciotto I (Aug 2011). MAO-A, D $\beta$ H, and 5-HTT variants in CHARGE: a case-control study of autism spectrum disorders. *Autism Res* 4:250-61.

Schmidt RJ, Hansen RL, Hartiala J, Allayee H, Schmidt LC, Tassone F, Hertz-Picciotto I. (epub May 2011) The combined effects of maternal prenatal vitamin intake and common functional gene variants in folate and transmethylation pathways on risk for autism spectrum disorders in the CHARGE Study. *Epidemiology* 2011;22:476-485.

Zerbo O, Iosif A-M, Delwiche L, Walker C, Hertz-Picciotto I (epub May 2011). Month and season



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of conception as a risk factor for autism/autism spectrum disorders. *Epidemiology* 2011;22:469–475.

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