

**CURRICULUM VITAE**

**NAME:** Hernando Rafael Perez, PhD, MPH, CIH, CSP, HHS

**BIRTH:** May 25, 1973; Providence, Rhode Island

**CITIZENSHIP:** United States of America / Republic of Colombia

**ADDRESS:** Drexel University School of Public Health  
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**EDUCATION:**

2004 Ph.D, Industrial Hygiene, Purdue University, West Lafayette, IN  
*Dissertation: Detection of Indoor Airborne Fungal Contamination through Examination of Building Heating, Ventilating and Air Conditioning Filters.*

1998 M.P.H., Environmental and Occupational Health, Emory University, Atlanta, GA

1996 B.S., Microbiology, University of New Hampshire, Durham, NH  
B.A., Sociology, University of New Hampshire, Durham, NH

**CERTIFICATION:**

2006 Certified Industrial Hygienist, Comprehensive Practice, American Board of Industrial Hygiene (ABIH), Certificate No. 9181

2007 Healthy Homes Specialist, National Environmental Health Association (NEHA) and the National Center for Healthy Housing (NCHH), Credential ID No. 90003509

2008 Certified Safety Professional, Comprehensive Practice, Board of Certified Safety Professionals (BCSP), CSP No. 20661

**HONORS:**

2000-2001 National Institute for Occupational Safety and Health Trainee Fellowship, Purdue University

2001-2003 Purdue Doctoral Level Fellowship, Purdue University

2005	Fellow, 2005 Summer Research Career Development Institute in Minority Health and Health Disparities, Center for Minority Health EXPORT Health Project, University of Pittsburgh Graduate School of Public Health
2006	Participant, American Industrial Hygiene Association Future Leaders Institute
2007	Sigma Xi
2008	Invited Thought Leader, American Industrial Hygiene Association Future Leaders Institute

**EMPLOYMENT:**

2004-Present	Assistant Professor of Public Health, Department of Environmental and Occupational Health, Drexel University School of Public Health, Philadelphia, PA
2006-Present	Director, Industrial Hygiene Consulting Service, Department of Environmental and Occupational Health, Drexel University School of Public Health, Philadelphia, PA
8/2003-6/2004	Graduate Assistant, SmokeFree Purdue Project Coordinator, Purdue University Student Health Center, West Lafayette, IN
5/2001-8/2001	Industrial Hygiene Intern, Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN
1/2000-8/2000	Industrial Hygienist, State of Rhode Island Department of Health, Environmental Lead Program, Providence, RI
1/1999-1/2000	Radiation and Biological Safety Specialist, Brown University Department of Risk Management, Providence, RI

**CONSULTANCIES:**

2008-	Industrial Hygiene Consultant and Lecturer, National Institute for Occupational Safety and Health of Sri Lanka, Colombo, Sri Lanka
11/2005-	Evaluation Advisor and Consultant, Philadelphia Department of Health Healthy Homes Demonstration Project, Philadelphia, PA
4/2005-12/2005	Mold Management Task Force Consultant, Facilitator and Report Writer, Pennsylvania Department of Health, Harrisburg, PA
7/2004-10/2004	Consultant, Senior Grant Reviewer, Round 12 U.S. Department of Housing and Urban Development Lead Hazard Control Program, Beacon Associates Inc., Bel Air, MD

**PROFESSIONAL MEMBERSHIPS:**

American Conference of Governmental Industrial Hygienists  
 American Industrial Hygiene Association  
 American Public Health Association  
 International Society of Indoor Air Quality and Climate  
 British Occupational Hygiene Society  
 National Environmental Health Association

**ADMINISTRATIVE, PROFESSIONAL, AND COMMUNITY SERVICE:*****Administrative Service***

2008- Co-Director, Drexel University Engineering Cities Initiative  
 2004- Member, Recruitment Task Force, Drexel University School of Public Health  
 2005- Member, Admissions Committee, Drexel University School of Public Health  
 2005- Member, Accreditation Steering Committee, Drexel University School of Public Health  
 2005- Member, Educational Coordinating Committee, Drexel University School of Public Health  
 2005-2008 Curriculum Coordinator, Department of Environmental and Occupational Health, Drexel University School of Public Health  
 2006 Recruitment Subcommittee, Provost's Task Force on Faculty Diversity, Drexel University

***Professional Service***

2007, 2008, 2009 Grant Reviewer, Review Panel, National Occupational Research Agenda (NORA) Internal Proposals, National Institute for Occupational Safety and Health  
 2005- Peer Reviewer, *Journal of Occupational and Environmental Hygiene*  
 2006- Peer Reviewer, *Indoor & Built Environment*  
 2007- Peer Reviewer, *Environmental Research*  
 2007- Peer Reviewer, *International Journal of Environment and Waste Management*  
 2007- Peer Reviewer, *Journal of Medical Microbiology*  
 2008- Peer Reviewer, *Journal of Environmental Management*  
 2006- Program Evaluator, Applied Science Programs, Accreditation Board for Engineering and Technology (ABET)

- 2006- Member, Academic Accreditation Committee, American Industrial Hygiene Association
- 2009 Member, Roundtable on Environmental Health Sciences, Research, and Medicine, Institute of Medicine, National Academy of Sciences

### **Community Service**

- 2005 City Week High School Student Mentorship Program
- 2005- Philadelphia School and Community Integrated Pest Management Partnership
- 2006- Panel Member and Rater, Environmental Health Program Manager Civil-Service Examination, City of Philadelphia Personnel Department
- 2007- Member, Technical Advisory Group, National Environmental Health Tracking Program, Commonwealth of Pennsylvania Department of Health

## **PRESENTATIONS AND PUBLICATIONS**

### **Peer Reviewed Publications**

Alvarado, C.S., Gandara, A., Flores, C., **Perez, H.R.**, Green, C.F., Hurd, W.W., and Gibbs, S.G. Seasonal Changes in Airborne Fungi and Bacteria at a Dairy Cattle Concentrated Animal Feeding Operation in the Southwest United States. *Journal of Environmental Health*. 71(9): 40-44

Gandara A, LC Mota, C Flores, **HR Perez**, CF Green, SG Gibbs (2006) Isolation of *Staphylococcus aureus* and antibiotic resistant *Staphylococcus aureus* from residential indoor bioaerosols. *Environmental Health Perspectives* 114(12):1859-1864

**(Featured article in the Environews/Science Selections as “Unwelcome Guest: Airborne Staph in Homes” Environmental Health Perspectives. 114(12): A715.)**

**Perez HR**, NJ Zimmerman, Z Berhane (2006) Evaluation of culturable particle load on HVAC filters before and after remediation: a pilot study. *Indoor and Built Environment* 15(6):525-533

**Perez HR**, AL Frank, NJ Zimmerman (2006) Health effects associated with organic dust exposure during the handling of municipal solid waste. *Indoor and Built Environment* 15(3):207-212.

## Conference Proceedings

**Perez HR**, Z Berhane, P Gurian, T Alexander, A Buchholz, M Chilton, V Bragg (2008) An evaluation of the relationship between residential particulate and dust endotoxin exposures and five asthma specific functional outcome and quality of life indicators in inner-city asthmatic children *Proceedings of the 11<sup>th</sup> International Conference on Indoor Air Quality and Climate, August 2008, Copenhagen, Denmark*

**Perez HR**, NJ Zimmerman, H Cember, F Rosenthal (2005) Detection of indoor airborne fungal contamination through examination of HVAC filters. In Yang X, B Zhao, R Zhao (eds) *Proceedings of the 10<sup>th</sup> International Conference on Indoor Air Quality and Climate, September 2005, Beijing, China: pp.1409-1413*

## Manuscripts Under Review / In Preparation

**Perez HR**, V Perez, N Zimmerman, S Gibbs (2008) Evaluation of fungal growth and growth inhibition on wallboard and greenboard under laboratory and field conditions (*under review, Journal of Occupational and Environmental Hygiene*)

Black E, **HR Perez**, R Harris (2008) Fish consumption and advisory awareness among the Philadelphia Asian Community (*under review,*)

**HR Perez**, NJ Zimmerman, Z Berhane (2008) Culturable particle load on single filter HVAC units as an indicator of indoor airborne fungal load (*in preparation*)

## Published Abstracts

**Perez HR**, NJ Zimmerman, H Cember, F Rosenthal (2005) Detection of fungal contamination through examination of HVAC filters. *Indoor Air*. 15(Supp. 11):69.

## Reports Authored

**Perez HR** (August 2006) Pennsylvania Mold Management Task Force Report to the Pennsylvania General Assembly. (Available online at: <http://www.dsf.health.state.pa.us/health/lib/health/injuryprevention/MoldReport2006.pdf>)

## Presentations

**Perez HR**, Z Berhane, P Gurian, T Alexander, A Buchholz, M Chilton, An evaluation of the relationship between residential particulate and dust endotoxin exposures and five asthma specific functional outcome and quality of life indicators in inner-city asthmatic children accepted for presentation at the 11th International Conference on Indoor Air Quality and Climate, August 2008, Copenhagen, Denmark

**Perez HR**, S Gibbs Assessment, interpretation and reporting of bioaerosol sampling results in indoor environments, National Environmental Health Association Annual Educational Conference and Exhibition, June 2008, Tucson, Arizona.

**Perez HR**, A Buchholz, Z Berhane, P Gurian, T Alexander, M Chilton, V Bragg, An evaluation of airborne particle counts, dust endotoxin, and home characteristics on the physical health of asthmatic children, American Industrial Hygiene and Exposition, June 2008, Minneapolis, Minnesota.

**Perez HR**, Z Berhane, P Gurain, M Chilton, Airborne Particle Counts, Dust Endotoxin and Activity Limitation in Inner-City Asthmatic Children (poster) American Public Health Association 135<sup>th</sup> Annual Meeting, November 2007, Washington, D.C.

**Perez HR**, Z Berhane, P Gurain, M Chilton, The Effect of Residential Endotoxin and Particulate Exposure on the Activity Levels of Asthmatic Children, American Industrial Hygiene Conference and Exposition, June 2007, Philadelphia, Pennsylvania

**Perez HR** and NJ Zimmerman, Detection of indoor airborne fungal contamination through examination of HVAC filters. Presented at the 10<sup>th</sup> International Conference on Indoor Air Quality and Climate, September 2005, Beijing, China.

**Perez HR** and NJ Zimmerman, Detection of Indoor Airborne Fungal Contamination through Examination of Building HVAC Filters. Presented at the American Industrial Hygiene Conference and Exposition, May 2005, Anaheim, California

**Perez HR** and NJ Zimmerman, Extraction and Quantification of Viable Fungal Particles from HVAC Filters as Indicators of Relative Airborne Levels in Building Air. Presented at the American Industrial Hygiene Conference and Exposition, May 2004, Atlanta, Georgia

**Perez HR** and NJ Zimmerman, Viable Fungal Concentration on HVAC Filters as a Predictor of Average Airborne Fungal Concentrations. (Poster) Presented at the University of Cincinnati Pilot Research Project Symposium, October 2003, Cincinnati, Ohio

**Perez HR** and NJ Zimmerman, Validation of a Method to Quantify Fungi on Heating, Ventilating and Air Conditioning System Filters. Presented at the University of Cincinnati Pilot Research Project Symposium, October 2003, Cincinnati, Ohio

**Perez HR** and NJ Zimmerman, Evaluation of a Method to Quantify Fungi on Heating, Ventilating and Air Conditioning Filters (poster) Presented at the American Industrial Hygiene Conference and Exposition, June 2003, Dallas, Texas

**RESEARCH SUPPORT**

9/2008-10/2009	<p>\$89,973  <u>PI: HR Perez</u>          The Barra Foundation  <i>Integration of Environmental Public Health into Primary Health Care Services for Low Income Pregnant Women</i></p>
2007-2010	<p>\$490,000  <u>PI: PL Gurian (HR Perez Co-Investigator)</u>          United States Department of Homeland Security  <i>Fellowship Program in Microbial Risk Assessment for Public Security, Safety and Health</i></p>
11/2005-12/2007	<p>\$187,101  <u>PI: HR Perez</u>          Drexel Synergy Grant  <i>An Evaluation of the Combined Effects of Environmental Particulate Exposures and Dietary Deficiencies on Pediatric Asthma Severity in Inner City Philadelphia</i></p>
2005-2008	<p>\$76,800  <u>PI: HR Perez</u>          Philadelphia Housing Authority  <i>An Asthma Intervention in Philadelphia Housing Choice Voucher Properties: Community Based Participatory Research in an Urban Setting</i></p>
6/2003-6/2004	<p>\$3500  <u>PI: HR Perez</u>          National Institute for Occupational Safety and Health Pilot Research Training Program of the University of Cincinnati Education and Research Center Grant #T42/CCT5100420  <i>Viable Fungal Concentration on HVAC Filters as a Predictor of Average Airborne Fungal Concentrations</i></p>
6/2002-6/2003	<p>\$4772  <u>PI: HR Perez</u>          National Institute for Occupational Safety and Health Pilot Research Training Program of the University of Cincinnati Education and Research Center Grant #T42/CCT5100420  <i>Validation of a Method to Quantify Fungi on Heating, Ventilating and Air Conditioning System Filters</i></p>