

ERIN N. HAYNES, DRPH, MS
Curriculum Vitae

PERSONAL INFORMATION

Professor and Chair, Department of Epidemiology
Interim Chair, Department of Preventive Medicine and Environmental Health
College of Public Health
111 Washington Ave, Rm 212G
University of Kentucky
Phone: (859) 562-2119
Email: Erin.Haynes@uky.edu

EDUCATION

- 2002-2004 **Post Doctoral Fellowship**
NIEHS T32 training program,
Molecular Epidemiology in Children's Environmental Health
Division of Epidemiology and Biostatistics
Department of Environmental Health
University of Cincinnati College of Medicine
Mentors: Grace LeMasters, Ph.D., M.S. and Bruce Lanphear, M.D., M.P.H.
Post Doctoral Research: "Novel development of magnetic resonance imaging
biomarker for manganese exposure"
- 2002 **Doctor of Public Health**
Environmental Health Sciences
University of Michigan School of Public Health Ann Arbor, MI
Doctoral Committee: Rolf Deininger, Ph.D. (co-chair), Bruce Lanphear, M.D.,
M.P.H., (Co-chair), Mary Fran Sowers, Ph.D., and Jerome Nriagu, Ph.D.
Dissertation: "Effectiveness of lead dust control and genetic susceptibility to
lead absorption"
- 1997 **Master of Science**
Division of Environmental Genetics and Molecular Toxicology
Department of Environmental Health
University of Cincinnati College of Medicine
Thesis Committee: Howard Shertzer, Ph.D. (Chair), George Leikauf, Ph.D.,
Janet Bohren, Ph.D.
Thesis: Environmental Health Science: A Primer for Elementary School
Teachers
- 1995 **Bachelor of Science**
Double major: Biology and Secondary Science Education
Minor: Chemistry
Wilmington College, Wilmington, Ohio.
Green Key National Honor Society

ACADEMIC APPOINTMENT

April 2019 – present	Deputy Director NIEHS UK Environmental Health Sciences Center
Dec 2018 – present	Professor and Chair Department of Epidemiology College of Public Health University of Kentucky
Jan 2019- present	<i>Interim Chair</i> Department of Preventive Medicine and Environmental Health College of Public Health University of Kentucky
Sept 2018-Nov 2018	Professor Division of Epidemiology Department of Environmental Health University of Cincinnati College of Medicine
Sept 2014-Aug 2018	Associate Professor <i>tenured</i> Division of Epidemiology Department of Environmental Health University of Cincinnati College of Medicine
June 2017-present	Director, Translational Workforce Development , Cincinnati Clinical and Translational Science and Training, CTSA
July 2014-present	Co-Director, Community Engagement , Cincinnati Clinical and Translational Science and Training, CTSA
July 2012-present	Director, Community Outreach and Engagement Core , NIEHS P30 Center for Environmental Genetics
June 2008-Aug 2014	Assistant Professor Division of Epidemiology and Biostatistics Department of Environmental Health University of Cincinnati College of Medicine
Dec 2004- present	Director, Clinical and Translational Research Training Program University of Cincinnati College of Medicine
Dec 2004-May 2008	Adjunct Faculty Division of Epidemiology and Biostatistics Department of Environmental Health University of Cincinnati College of Medicine

AWARDS AND HONORS

2019	NIOSH Bullard-Sherwood Research to Practice (r2p) Award
2017	NIEHS Paper of the Year Award
2017	NIEHS Paper of the Month, October
2017	Ohio School Board Association, Business Community Award
2013	Association of American Medical Colleges Mid-Career Women Faculty Professional Development Seminar awardee
2013, 2014	UC Forward award recipient to foster cross-campus learning opportunities.
2013	Academic-Community Research Partnership Award for service related to my collaborative approach to the Health Impact Assessment for the 6 th Street Viaduct Demolition.
2005-2008	National Loan Repayment Program Awardee
2001	Travel Award to International Society for Environmental Epidemiology Meeting
1995	Ohio Board of Regents Scholarship, University of Cincinnati
1995	Robert E. Lucas Student Leadership Award
1995	Ohio Campus Compact Charles J. Ping Community Service Award,
1995	Virginia Roose Education Award, Wilmington College
1994	Green Key National Honor Society, Wilmington College
1993-1994	Proctor and Gamble Education Scholarship, Wilmington College
1991-1995	Leader-Honor Scholarship Recipient, Wilmington College
1991	Individual Ranatra Fusca Creativity Award

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

Member, Association of American Medical Colleges (AAMC) Group for Women in Medicine and Science (GWIMS)

Member, International Society of Environmental Epidemiology

- Ethics and Philosophy Committee

Member, International Society of Exposure Science

- Academic Councilor, 2016-2019
- Technical Organizing Committee, 2014-present

Member, Society for Epidemiologic Research

Member, American Public Health Association

SERVICE

National/International Committees

1. National Institute of Occupational Health (NIOSH), Emergency Preparedness and Response (EPR) Program Review Panel, Atlanta, GA May 2018-July 2018
2. International Advisory Committee for the *Second International Conference on the Neurotoxicity and Prevention of Manganese Adverse Health Effects* (2016)
3. National Occupational Research Agenda (NORA), Cancer, Reproductive, Cardiovascular, and Other Chronic Disease Prevention (CRC), Cross-Sector Council Member, Office of Policy, Planning and Evaluation, National Institute for Occupational Safety and Health. (2017-Present)
4. National Occupational Research Agenda (NORA), Manufacturing Sector Program, Office of Policy, Planning and Evaluation, National Institute for Occupational Safety and Health.

(2017-Present)

5. Academic Counselor, elected office for the International Society of Exposure Science (2017-2020)
6. Member, Ethics and Philosophy Committee, International Society of Environmental Epidemiology (2015-present)
7. Chair, Technology Fair, Technical Organizing Committee, International Society of Exposure Science Conference (2014-present)
8. Chair, Appalachian Translational Research Network
9. Invited Participant, Health Effects Institute (HEI), Potential Impacts of Unconventional Oil and Gas Development in the Appalachian Basin, Public Workshop. (2014)
10. Member, National Institute of Environmental Health Sciences (NIEHS) Environmental Health Centers, Hydraulic Fracturing Working Group (2013-present).
11. Member, Education and Research Training Key Function Committee (KFC), Clinical and Translational Science Award. (2011-present)
12. Member, Evaluation Subcommittee, Clinical and Translational Science Award –Biostatistics, Epidemiology and Research Design (2010).
13. Invited Participant, National Institute of Environmental Health Sciences Risk Communication Workshop (2010).
14. Member, Planning Committee (2010), National Institute of Environmental Health Sciences, Inaugural Partnerships for Environmental Public Health Research Triangle Park, NC.
15. Member, Evaluation Committee (2006-present), Association for Clinical Research Training (ACRT). Bethesda, MD

Local Committees

1. Chair, Search Committee for Chair of Department of Preventive Medicine and Environmental Health, University of Kentucky College of Public Health
2. Member, Reappointment, Promotion, Tenure Committee. Department of Family and Community Medicine. University of Cincinnati Medical Center (2016-2018)
3. President, UC Women in Medicine and Science (WIMS) (2015-2018)
4. LEAF Academic Accountability Committee. 2015-2017
5. Program Committee, Center for Closing the Health Gap, Cincinnati, Ohio (2013-2018)
6. EPA-Appointed Commissioner (2012 - present), Hamilton County Environmental Action Commission (HCEAC), Chair, 2016

7. Organizer, Symposium for the Ohio-Kentucky-Indiana (OKI) Regional Council of Government's Regional Impact of Traffic Exhaust on Children's Health Symposium (06/2012).
8. Member, Fernald Community Advisory Committee (2012-2017)
9. Technical Advisory Group Member, National Environmental Public Health Tracking Program, City of Cincinnati Board of Health.
10. Consultant (2000), Better Housing League of Greater Cincinnati.
11. Member, Search Committee for Assistant/Associate Professor in Epidemiology Faculty Search Committee (2011-2012), Department of Environmental Health, University of Cincinnati, Cincinnati, OH.
12. Member, Search committee for Director of Clinical Studies in Occupational and Ambient Environments Search Committee (2009-2012), Department of Environmental Health, University of Cincinnati, Cincinnati, OH.
13. Member, Epidemiology Faculty Search Committee (2012), Cincinnati, OH.
14. Member, Center for Clinical and Translational Science and Training, Steering Committee, (2010-2018) Cincinnati, OH.
15. Member, Internal Advisory Board, Center for Environmental Genetics (2012-2013), Cincinnati, OH.
16. Member, Internal Advisory Board, Molecular Epidemiology in Children's Environmental Health (2012-2018), Cincinnati, OH.
17. Chair, Curriculum Committee, Master of Science in Clinical and Translational Research, (2010-2018) Cincinnati, OH.

Grant Review Panels

1. NIH, NIEHS Environmental Health Study Section – Standing Committee Member (2017)
2. NIH, NIEHS, Outstanding New Environmental Health Scientist (2014- present)
3. NIH, R24, Cohort Maintenance Review Meeting. April 3-4, 2017
4. NIH, Infectious, Reproductive, Asthma and Pulmonary Conditions Study Section, Nov 2016
5. NIH, Children's Health Exposure Analysis Resources (CHEAR) Review, June 2015
6. NIEHS, Superfund Basic Science Research Center (2013)
7. CDC, Education and Research Center Pilot Project Program (2011-2013)
8. NIH, Office of the National Coordinator for Health Information Technology (ONC), and Environmental Protection Agency (EPA) Grant Review: My Air My Health Challenge (2012-present).
9. NIEHS, ZES1-LKB-K (R2), Research Careers in Emerging Technologies (2013).
10. NIH, ZES1 SET-J K9 1, Career Grants in the Environmental Health Sciences (11/2012).
11. Breast Cancer Registry of Greater Cincinnati grant program (2011).
12. Conferences on Environmental Diseases 2011/2012 Council ZES1TN-J K 1, Teresa Nesbitt, SRO (11/2011).
13. NIEHS, Environmental Health Science Centers (2009; 2010).

National/International Invited Lectures and Panels

1. Invited Panelist, Midwest Precision Genomics Symposium (5/10/19)
2. NIEHS 22nd Annual Career Symposium (4/26/19)
3. Invited Speaker/Ted Talk, 2nd Annual Children's Environmental Health Summit (11/15/17)
4. Invited Speaker, University of Kentucky Education Resource Center Grand Rounds (3/17)
5. Keynote, Environmental Physician Scholars, Mt. Sinai Medical Center, New York. (1/6/17)
6. Invited Speaker, National Institute of Environmental Health Sciences FEST, *Academic Motivation and Culture for Community Engagement*. (9/2016)
7. Conference Chair, 5th Annual Appalachian Translational Research Network Health Summer. Cincinnati, OH. (10/2016)
8. Invited Speaker and Session Lead, International Manganese Conference, Mt. Sinai Medical Center, New York (9/2016)
9. Invited Speaker, University of Rochester Medical Center, Department of Environmental Medicine. "Addressing Emerging Environmental Health Issues in Appalachian Ohio: A Citizen Science Approach." (2/26/15)
10. Invited attendee, Veterans Affairs/Department of Defense Deployment Health Working Group Airborne Hazards Joint Action Plan, In Support of the Veterans Affairs/Department of Defense Joint Executive Council Strategic Plan. (4/2013)
11. Invited Attendee, NIEHS Strategic Planning Stakeholder Meeting (2011), Research Triangle Park, NC, USA.
12. Chair, Symposium for Novel Biomarkers of Manganese Exposure, Effect, and Susceptibility (08/2012), International Society for Environmental Epidemiology, Columbia SC, USA.
13. Panelist, Quality Scholars Event (01/2013), Clinical and Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA.
14. Invited Speaker, 12th International Symposium on Neurobehavioral Methods & Effects in Occupational & Environmental Health (ICOH) (03/2012), Cape Town, South Africa.
15. Speaker, EPA Ferroalloys Production, Research Triangle Park (11/2012)
16. Panelist, Communication Program (2010), NIEHS Research Triangle Park, NC, USA.
17. Co-Moderator with Liam O'Fallon, NIEHS Program Officer, Inaugural Partnerships for Environmental Public Health Meeting Investigator Workshop (10/2009), Raleigh-Durham, NC, USA.
18. Invited Speaker, 20th International Conference on Epidemiology in Occupational Health and 10th International Symposium on Neurobehavioral Methods and Effects in Environmental and Occupational Health (06/2008), San Jose, Costa Rica.

Local Invited Lectures and Panels

1. Speaker, Big Sandy Watershed Summit. Paintsville, KY. (5/2019)
2. Moderator, CCTST Bioethics Conference. "Community Partners in Genetic Research" (3/13/2015)
3. Invited Speaker, Center for Clinical and Translational Science and Training, University of Cincinnati and Cincinnati Children's Medical Center. "Appalachian Translational Research Network (ATRN): An invitation to address health disparities in Appalachia." (2/20/2015)
4. Lecture, Environmental Epidemiology as a Career. College of Arts and Sciences. 9/2014
5. Lecture, Neurodevelopment of Children Exposed to Manganese. College of Engineering. 8/2014
6. Speaker, Center for Clinical and Translational Research and Training (CCTST) Grand Rounds. (11/2013)
7. Invited Guest Speaker, Xavier University Rachel Carson Environmental Sustainability

- Faculty Event (05/2012), Cincinnati, OH, USA.
8. Moderator and Speaker, UC COM Alumni Reunion Continuing Medical Education Series (05/2012), Cincinnati, OH, USA.
 - Environmental Health Issues in Rural Appalachian Ohio and Community-Academic Partnerships Leading to Success
 9. Panelist, Clinical Research Scholars Seminar (2011), Cincinnati, OH, USA.
 - Work and Career
 10. Speaker, CCTST Grand Rounds (2011), Ethics in Community Engagement. Speaker, Cincinnati, OH, USA.
 11. Speaker, Capacity Building Workshops (2011-2014), CDC/NIOSH Education and Research Center, Cincinnati, OH, USA.
 - How to Write Research Grants
 - Balancing Family and Career and Being Successful at Both
 12. Speaker, Pilot Research Program Symposium (10/2011), University of Cincinnati CDC/NIOSH Education and Research Center, Cincinnati, OH, USA.
 - Firefighters' exposure to fine particles and polycyclic aromatic hydrocarbons
 - PAH exposure in municipal firefighters

Manuscript Review

Serve as an *ad hoc* reviewer for the following scientific journals:

1. Environmental Health Perspectives, Impact factor: 7.26
2. Environmental Research, Impact factor: 3.85
3. Journal of Occupational and Environmental Medicine, Impact factor: 1.84
4. Environmental Science and Technology, Impact factor: 5.257
5. Journal of Exposure Science and Environmental Epidemiology: 3.187

GRANTS AND CONTRACTS

CURRENT

NIH/NIEHS R01ES02644601A1 Haynes/Cecil (MPI) 07/01/2016-06/30/2021
Developmental effects of manganese exposure in rural adolescents: the CARES cohort comes of age.

This study will innovatively examine the impact of manganese exposure, along with other known neurotoxicants, including lead and environmental tobacco smoke, in a follow-up study of a rural, Appalachian cohort. We will examine the impact of these exposures on neurobehavior, postural balance and gait, brain anatomy and physiology.

Role: Corresponding PI

NIH/NIEHS R21/R33ES024717-02 Papautsky/Haynes (MPI) 03/01/2015 – 02/28/2020
Validation and Demonstration of point-of-care sensor for multi-metal exposure assessment.

The goal of this project is to demonstrate validity and usability of a "laboratory-in-a-chip" sensor for rapid and accurate point-of-care measurement of metals (manganese and lead) in blood. This sensor will only require a few drops of blood per analysis providing the ability to conduct multiple blood measurements on site (point-of-care), and use in occupational and international research settings.

NO ID Haynes (PI)

12/21/2018 – 09/30/2019

0.12 CM

Robert Wood Johnson Foundation; Ohio Organizing Collaborative \$25,000
Developing and Evaluating Novel Strategies for Reporting Back Individual Results of Personal Air Monitors

This project seeks to work collaboratively with community partners to develop a citizen science soil sampling and analyses protocol and report back strategy. This is part of the RWJ Interdisciplinary Research Leaders Cohort Three - Social and economic determinants in rural America.

Role: PI

5UL1TR001998-04 Kern (PI) 08/15/2016 – 05/21/2020 1.2 CM
 NIH/NCATS \$3,632,713

Kentucky Center for Clinical and Translational Science

Our overarching goal as a CTSA hub is to continue to champion innovation in the full spectrum of clinical and translational research while educating the workforce of the future, engaging our communities in biomedical science and working with the national network to advance cohesive multi--center clinical trials, which will ultimately elevate the health and quality of life of the populace of Central Appalachia.

Role: Co-Investigator

5P30ES026529-03 Hahn (PI) 05/01/2017 – 03/31/2022 1.2 CM
 NIH/NCATS \$1,496,462

Center for Appalachian Research in Environmental Sciences: CARES

The overall goal of the University of Kentucky Center for Appalachian Research and Environmental Science (UK-CARES) is to provide new opportunities and resources to support highly innovative and collaborative research studies that will enhance the ability to identify and capitalize on emerging environmental issues. This will be accomplished by providing developmental and pilot funds for innovative, time-sensitive pilot studies that improve our understanding of the relationships among environmental exposures, human biology, and disease.

Role: Co-Investigator

75484 Scutchfield (PI) 07/01/2018 – 06/30/2021 0.6 CM
 Robert Woods Johnson Foundation \$117,000

Creating the Online "Journal of Appalachia Health" with a Focus on the Social and Economic Determinants of Health and Health Equity in Appalachia

The overall strategy is to improve the health of the people of Appalachia. Our strategy addresses that with a journal that has two major components. The first is a rapid turnaround of new Appalachia health research, providing actionable research findings to those in the region who can and will use it in their work. The second is providing actionable information and knowledge in the various domains of health determinants that address the underlying health problems of Appalachia. We anticipate it being used by a broad variety of those who can make an impact on the health of the region.

Role: Senior Associate Editor

Haynes (PI) 07/01/2019-12/31/2019 0.5 CM
 NIH/NIEHS \$25,000

2019 National Conference of State Legislatures (NCSL) Legislative Summit. Disaster Preparedness and Response Research: A Workshop for the National Conference of State Legislatures

The overarching goal of the workshop is to foster dialog between active environmental health science researchers and state legislators, in order to share accurate, scientific information, and

to translate current research results relevant to pressing environmental health issues that face constituents and communities.

Role: PI

OVERLAP: None

NIH/NIEHS R01ES022933 Papautsky (PI)

09/01/2013 – 05/30/2018

Development of a lab-on-a-chip sensor for blood metals

The goal of this project is to demonstrate rapid, point-of-care, multi-analyte assessment of Mn and Pb metals in a finger prick of blood from children. A relatively swift, simultaneous assessment of heavy metal exposure, which ultimately reduces costs and turnaround times, would benefit pediatric public health nationally and internationally. Indeed, our long-term goal is to use sensors to move blood analysis from the laboratory to the clinical setting, providing results within minutes.

Role: Co-Investigator. *Currently in no cost extension*

PENDING

Haynes (PI)

09/01/2019-08/31/2021

2.0 CM

Cincinnati Children's Hospital Med Center \$533,000

Developing and Evaluating Novel Strategies for Reporting Back Individual Results of Personal Air Monitors

The goal of this project is to develop air quality report-back strategies for research participants involved in personal air monitoring.

Role: PI of subcontract at UKY

Hennig (PI)

12/01/2019-11/30/2024

0.5 CM

NIH/NIEHS \$2,498,423

Nutrition and Superfund Chemical Toxicity

The University of Kentucky Superfund Research Center (UK-SRC) proposes to address a pervasive central research problem: the persistence of halogenated organics at Superfund sites and elsewhere.

Role: Co-I

Haynes (PI)

07/01/2019-06/30/2024

0.5 CM

NIH/NIEHS

\$376,017

Retention, Maintenance and Enhancement of the Communities Actively Researching Exposure Study (CARES)

CARES has been supported by multiple NIEHS-funded grants and has been instrumental in the training of next generation community-engaged environmental health scientists for over a decade. The cohort has been instrumental in the development of a lab-on-a-chip sensor for blood metals assessment and is currently exploring the impact of Mn on neuroanatomy, function, chemistry, and physiology through magnetic resonance imaging. The goal of this study is to retain, maintain and enhance the ongoing CARES cohort.

Role: PI

COMPLETED

April 2013- Dec 2018

NIH-NIEHS 5P30ES006096-19 Ho (Center PI)

Center for Environmental Genetics, Community Outreach and Education Core

Role: Core Lead of the Community Engagement Core (CEC)

Aug 2015- Dec 2018 NIH/ NCRR 1UL1RR026314-01 Heubi (PI)
Cincinnati Center for Clinical and Translational Science and Training
Role: Co-Investigator, Lead for Translational Workforce Development and Co-Lead for Community Engagement Core

Sept 2009 – Aug 2011 NIH/ NCATS 3UL1RR 026314-01S2 (Heubi, Center PI; Haynes, Supplement PI)
Total Direct Costs: \$559,637
Project Title: “Administrative Supplement for Research Workforce Development and Dissemination, Creation of Online Certificate in Clinical and Translational Research”

April 2008 - March 2013 NIEHS 1 R01 ES016531-01 (Haynes, PI)
Total Direct Costs: \$1,730,857
Project Title: Marietta Community Actively Researching Exposure Study (CARES)

Sept 2012 - Aug 2014 NIH/NIEHS R21ES021106-01 (Haynes, PI)
Total Direct Costs: \$130,833
Project Title: Multiple Risk Factors and Neurodevelopment Deficits in Rural Appalachian Children

Sept 2013-Aug 2014 NIH/NIEHS 3 P30 ES006096-21S1 (Ho, Center PI; Haynes, Project PI).
Total Direct Costs: \$47,910
Center for Environmental Genetics, supplement award with Oregon State University for hydraulic fracturing air study in Ohio.

Sept 2013-Aug 2014 NIH/NIEHS 3 P30 ES006096-21S1 (Ho, Center PI; Haynes, Project PI).
Total Direct Costs: \$16,830
Center for Environmental Genetics, supplement award with University of Pennsylvania for risk perception and hydraulic fracturing research study

Sept 2010 – Aug 2012 NIH/NIEHS R21 ES019255-01 (Haynes, Co-Investigator)
Total Direct Costs: \$275,000 (total direct)
Project Title: Multi-Metal Chip for Point-of-Care Monitoring in Children Ian Papautsky, PI

Oct 2009 – Sept 2012 NIH/NIEHS 1R21ES017957-01 (Haynes, Co-Investigator)
Total Direct Costs \$928,549
Impact of Traffic-Related Particles on Asthma for Students in an Urban School District Patrick Ryan, PhD (PI)

June 2009 – May 2011 NIH/NIEHS 3R01ES016531-02S4 (Haynes, PI)
Total Direct Costs: \$98,635

Project Title: Summer Student Research Award, Marietta Community Actively Researching Exposure Study (Haynes, PI)

Oct 2009 – Sept 2011 NIH/NIEHS 3R01ES016531-02S3 (Haynes, PI)
 Total Direct Costs: \$517,891
This grant is viewed as an R01 by NIEHS.
 Project Title: Administrative Supplement, Marietta Community Actively Researching Exposure Study (Haynes, PI)

June 2009 – May 2010 CCTST Ethics Grant (Haynes, PI)
 Total Costs \$10,000
 Project Title: The Ethics and Perceptions of Appalachian Americans to Genetic Research

Aug 2009 – July 2010 UC Center for Environmental Genetics (Haynes, PI)
 Total Direct Costs: \$38,000
 Project Title: University of Cincinnati Firefighter Pilot Research Study

July 2009 – June 2010 UC Education and Research Center (Haynes, PI)
 Total Direct Costs: \$8,610
 Project Title: Firefighters' Exposure to Fine Particles and Polycyclic Aromatic Hydrocarbons

April 2009 – March 2010 CDC/NIOSH 211-2008-M-27606 (Haynes, PI)
 Total Direct Costs: \$41,026
 Project Title: DNA Analyses to Assess Genetic Susceptibility to Manganese Neurotoxicity

July 2008 – June 2010 NIH/NIEHS 1R03ES017362-01 (Haynes, PI)
 Total Direct Costs: \$100,000
 Project Title: University of Cincinnati-Marietta-Parkersburg Metropolitan Area Reciprocal Research Relationship

June 2007 – March 2012 NIEHS R01 ES015559-01 (Haynes, Co-Investigator)
 Total Direct Costs: \$1,276,897
 Project Title: Early Lead Exposure, ADHD & Persistent Criminality: Role of Genes and Environment Kim N. Dietrich, PhD (PI)

July 2007 – June 2008 NIH/NIEHS Center for Environmental Genetics (Haynes, PI)
 Total Direct Costs: \$15,000
 Project Title: Extent of Metal Exposure in Marietta, Ohio and the Surrounding Area

July 2006 – June 2010 NIOSH 3 T42 OH008432-02S1 (Haynes, Co-Investigator)
 Total Direct Costs: \$6,537,420
 Project Title: Biological Monitoring Component Program (ERC) Glenn Talaska, PhD (PI)

Aug 2005 - July 2010 NCRR 1 K30 RR022273-01(Haynes, Co-Investigator)
 Total Direct Costs: \$300,000

Title: National Center for Research Resources (NIH) University of Cincinnati Clinical Curriculum Award
Joel Tsevat, MD, MPH (PI)

Dec 2004 – Nov 2007 NIH/ NIEHS 5R21ES013524-02 (Haynes, PI)
Total Direct Costs: \$272,063
Project Title: Neurobehavioral Effects of Low-Level Manganese Exposure

Dec 2003 – Nov 2004 NIH/NIEHS Center for Environmental Genetics Pilot Project
Total Direct Costs \$5,000
Project Title: Neurobehavioral Effects of Low-Level Manganese Exposure (Haynes, PI)

April 2000 – March 2001 NIH/NIEHS Center for Environmental Genetics Pilot Project
Total Direct Costs: \$30,000
Project Title: Racial Disparity in Blood Lead Concentration due to Genetic Variation in Calcium Absorption, (Bruce Lanphear, M.D., PI, Haynes, Co-I)

Sept 1999 – Aug 2000 Blue Cross Blue Shield of Michigan Foundation, Student Award (Haynes, PI)
Total Direct Costs: \$7,000
Project Title: A Systematic review of the Effect of Lead Hazard Controls on Children's Blood Lead Concentrations

Sept 1999 – Aug 2000 Michigan Campus Compact, Scholarship of Engagement Mini grants (Haynes, PI)
Total Costs: \$2,000
Project Title: Primary Prevention of Childhood Lead Poisoning through Maternal Education

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

A list of published work is below.

<http://www.ncbi.nlm.nih.gov/sites/myncbi/erin.haynes.1/bibliography/41145614/public/?sort=date&direction=ascending>

1. Yeramaneni S, Yolton K, Kannan K, Dietrich KN, **Haynes EN**. Serum Cotinine versus Parent Reported Measures of Secondhand Smoke Exposure in Rural Appalachian Children. *J Appalach Health*. 2019;1(1):15-26. doi: 10.13023/jah.0101.03. PubMed PMID: 31179444; PubMed Central PMCID: PMC6553863.
2. **Haynes EN**, Hilbert T, Sucharew H, Dietrich KN. Response to "Comment on 'Impact of air manganese on child neurodevelopment in East Liverpool, Ohio' by Haynes et al. (2018)". *Neurotoxicology*. 2018 Sep;68:149-150. doi: 10.1016/j.neuro.2018.07.016. Epub 2018 Aug 3. PubMed PMID: 30081052.
3. Percy Z, DeFranco E, Xu F, Hall ES, **Haynes EN**, Jones D, Muglia LJ, Chen A. Trimester specific PM2.5 exposure and fetal growth in Ohio, 2007-2010. *Environ Res*. 2019 Jan 15;171:111-118. doi: 10.1016/j.envres. 2019.01.031. [Epub ahead of print] PMID: 30660917
4. Calvillo A, **Haynes E**, Burkle J, Schroeder K, Calvillo A, Reese J, Reponen T. Pilot study on the efficiency of water-only decontamination for firefighters' turnout gear. *J Occup Environ Hyg*. 2018 Nov 28;1-16. doi: 10.1080/15459624.2018. 1554287. PMID: 30485152
5. Ren S, **Haynes E**, Hall E, Hossain M, Chen A, Muglia L, Lu L, DeFranco E. Periconception Exposure to Air Pollution and Risk of Congenital Malformations. *J Pediatrics*. 2018; 193: 76-84. PMID: 29237538
6. Paulik, LB, Hobbie KA, Rohlman D, Smith BW, Scott RP, Kincl L, **Haynes EN**, and Anderson KA. Environmental and individual PAH exposures near rural natural gas extraction. *Environmental Pollution*. Online May 29, 2018. 241: 397–405.
7. Newman N, Elam S, Igoe C, Jones C, Menrath W, Porter D, **Haynes EN**. A Community-Academic Partnership to Reduce Lead Exposure from an Elevated Roadway Demolition, Cincinnati, Ohio, 2012. *Public Health Reports*. 132 (6): 622-626.
8. Zipkin FB, Falciglia GA, Kuhnell P, **Haynes EN**. Development and Evaluation of a Manganese and Iron Food Frequency Questionnaire for Pediatrics. *Int J Environ Res Public Health*. 2017; 14(9). PMID: 28906436.
9. **Haynes EN**, Sucharew H, Hilbert TJ, Kuhnell P, Spencer A, Newman NC, Burns R, Wright R, Parsons PJ, Dietrich KN. Impact of air manganese on child neurodevelopment in East Liverpool, Ohio. *Neurotoxicology*. 2017; [Epub ahead of print]. PMID: 28888663. *NIEHS Paper of the Year 2017; Paper of the Month, October 2017*
10. Knapke JM, **Haynes EN**, Vaughn LM. Using Qualitative Methods to Improve Physician Research Training: Understanding the Student Perspective. *International Journal of*

Health Sciences Education. 2017; 4(1):1-15.

11. Kang W, Rusinek C, Bange A, Haynes E, Heineman WR, Papautsky I. Determination of manganese by cathodic stripping voltammetry on a microfabricated platinum thin-film electrode. *Electroanalysis*. 2017 Mar;29(3):686-695. doi: 10.1002/elan.201600679. PubMed PMID: 28983182; PubMed Central PMCID: PMC5624726.
12. Kang W, Pei X, Rusinek CA, Bange A, **Haynes EN**, Heineman WR, Papautsky I. Determination of Lead with a Copper-Based Electrochemical Sensor. *Anal Chem*. 2017; 89(6):3345-3352. PMID: 28256823.
13. Fulk F, Succop P, Hilbert TJ, Beidler C, Brown D, Reponen T, **Haynes EN**. Pathways of inhalation exposure to manganese in children living near a ferromanganese refinery: A structural equation modeling approach. *Sci Total Environ*. 2017; 579:768-775. PMID: 27865527.
14. Knapke J, **Haynes E**, Breen J, Kuhnell P, Smith L, Meinzen-Derr J. Evaluation of Online Graduate Epidemiology Instruction and Student Outcomes. *Online Learning*. 2016; 20(4):201-211.
15. Vollet K, **Haynes EN**, Dietrich KN. Manganese Exposure and Cognition Across the Lifespan: Contemporary Review and Argument for Biphasic Dose-Response Health Effects. *Curr Environ Health Rep*. 2016; 3(4):392-404. PMID: 27722879.
16. Fulk F, **Haynes EN**, Hilbert TJ, Brown D, Peterson D, Reponen T. Comparison of stationary and personal air sampling with an air dispersion model for children's ambient exposure to manganese. *J Expo Sci Environ Epidemiol*. 2016; 26(5):494-502. PMID: 27168393.
17. Paulik LB, Donald CE, Smith BW, Tidwell LG, Hobbie KA, Kincl L, **Haynes EN**, Anderson KA. Emissions of Polycyclic Aromatic Hydrocarbons from Natural Gas Extraction into Air. *Environ Sci Technol*. 2016; 50(14):7921-9. PMID: 27400263.
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23. Yeramaneeni S, Dietrich KN, Yolton K, Parsons PJ, Aldous KM, **Haynes EN**. Secondhand Tobacco Smoke Exposure and Neuromotor Function in Rural Children. *J Pediatr*. 2015; 167(2):253-9. PMID: 25882879.
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39. Jothimuthu P, Wilson RA, Herren J, **Haynes EN**, Heineman WR, Papautsky I. Lab-on-a-chip sensor for detection of highly electronegative heavy metals by anodic stripping voltammetry. *Biomed Microdevices.* 2011; 13(4):695-703. PMID: 21479538.
40. Meloncon L, **Haynes E**, Varelmann M, Groh L. Building a Playground: General Guidelines for Creating Educational Web Sites for Children. *Tech Commun.* 2010; 57(4):398-416. PMID: 26633909.
- *Recipient of the Frank R. Smith Distinguished Article in Technical Communication Award and Cover Page of Technical Communication.*
 - *Nominated for the National Council of Teachers Technical and Scientific Communication Best Article (years 2010-2011) in Empirical Research.*
41. **Haynes EN***, Heckel P, Ryan P, Roda S, Leung YK, Sebastian K, Succop P. Environmental manganese exposure in residents living near a ferromanganese refinery in Southeast Ohio: a pilot study. *Neurotoxicology.* 2010; 31(5):468-74. PMID: 19879291.
42. Brubaker CJ, Schmithorst VJ, **Haynes EN**, Dietrich KN, Egelhoff JC, Lindquist DM, Lanphear BP, Cecil KM. Altered myelination and axonal integrity in adults with childhood lead exposure: a diffusion tensor imaging study. *Neurotoxicology.* 2009; 30(6):867-75. PMID: 19619581.
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45. MUSAAD S, **HAYNES EN**. Biomarkers of obesity and subsequent cardiovascular events. *Epidemiol Rev*. 2007; 29:98-114. PMID: 17494057.
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47. **HAYNES E***, Lanphear BP, Tohn E, Farr N, Rhoads GG. The effect of interior lead hazard controls on children's blood lead concentrations: a systematic evaluation. *Environ Health Perspect*. 2002; 101(1):103-7. PMID: 11781171.
48. Kelada SN, Shelton (**HAYNES**) **E**, Kaufmann RB, Khoury MJ. Delta-aminolevulinic acid dehydratase genotype and lead toxicity: a HuGE review. *Am J Epidemiol*. 2001; 154(1):1-13. PMID: 11427399.

BOOK/ENCYCLOPEDIA CHAPTERS

1. **Haynes, EN**, McKenzie LM, Malin SA, Cherrie JW, Miller A. Onshore unconventional oil and gas extraction and implications for public health. Invited Oxford University Press Encyclopedia. Accepted June 2017.
2. Langevin S and Haynes, EN. "Manganese in Health and Disease." Eds. Aschner M & Costa LG. *Developmental Effects of Manganese*. **Invited book chapter**. The Royal Society of Chemistry. 2015.
3. Haynes, EN. Community-Based Participatory Research: An Overview for Application in DoD/VA Research. **Invited** book chapter for Airborne Hazards, US Army Borden Institute. May 21, 2015.
<http://www.cs.amedd.army.mil/borden/Portlet.aspx?id=0d4977be-d91a-41c3-8580-c29fdbaf6f257>
4. MUSAAD S, Haynes E. *Obesity*. In: Rothman N, Hainaut P, Schulte P, Smith M, Boffetta P, Perera F. Molecular epidemiology: principles and practices. Lyon: IARC Scientific Publication No 163. March 2012.

TEACHING

Courses

2010-2018

Co-Director Design and Management of Field Studies in Epidemiology, 3 credit Graduate course, Division of Epidemiology, Department of Environmental Health, University of Cincinnati ~25 students per year

- The course teaches students to synthesize their research ideas into a hypothesis, specific aims, research design, methods for collecting and analyzing data, recruitment strategies, tips on maintaining a longitudinal cohort, and the grant review process. Students prepare

- an R21 grant submission during the 10-week course.
 - Required course for all MS and PhD students in the Division of Epidemiology and Biostatistics
 - The class received a “T” designation, as it is transdisciplinary though a University of Cincinnati (UC) Forward grant, entitled “Innovations in Science Communications” for years 2012-present.
 - Student evaluations: Average 4.8/5 in 2017
- 2018 Communicating Your Science, 2 credit Graduate course, Division of Epidemiology, Department of Environmental Health, University of Cincinnati ~12 students – built and offered this course for University.
- 2012-2018 Successful Scientific Writing, 1 credit online Graduate course, Division of Epidemiology, Department of Environmental Health, University of Cincinnati ~30 students/year
- 2005-2010 Molecular Epidemiology, 3 credit Graduate course, Division of Epidemiology and Biostatistics, Department of Environmental Health, University of Cincinnati ~35 students/year
- 2003 Community Exposure Assessment, Graduate course, Division of Epidemiology and Biostatistics, Department of Environmental Health, University of Cincinnati
- 2001-2002 Environmental Science I and II, Undergraduate course, Chatfield College, Ohio
- 1997-1998 Biology Laboratory, Undergraduate course, UC Clermont

Lectures

1. Physician and Society. Ethics in Community Based Participatory Research. 2016, 2017
2. Introduction to Epidemiology. Careers in Health Professions Course, Physiology MS program. November, 2009, 2010, 2011, 2013
3. Environmental Epidemiology. EVST2000 Research & Careers in Environmental Studies. 2011-2013
4. Manganese Toxicity. Industrial Hygiene course. 2008 - present
5. Introduction to Epidemiology in the Molecular Genetics and Environmental Toxicology course. Jan 2006, 2007.
6. Neurobehavioral Effects of Low-Level Manganese Exposure. University of Cincinnati Division of Epidemiology and Biostatistics Seminar, Oct 7, 2004.

Students

DOCTOR OF PHILOSOPHY STUDENTS (Primary Advisor)

Shima Yasin, MD	08/17-2018	Department of Environmental Health, UC
Danielle Goecke	01/17-2018	Department of Environmental Health, UC
Kaitlin Volett	08/15-2018	Department of Environmental Health, UC
Simon Tremblay, PharmD	08/14-2018	Department of Environmental Health, UC
Kimberly Hart	09/11-2018	Department of Environmental Health, UC
Adrienne Stoffi	03/11-2018	Department of Environmental Health, UC
Florence Fulk	09/09-08/14	Department of Environmental Health, UC
Samarat Yeramaneni, MBBS	09/09-08/13	Department of Environmental Health, UC
Fedorina Rugless	09/07-06/12	Department of Environmental Health, UC
Stacy Poe	09/07-06/13	Department of Environmental Health, UC
Frida Zipkin	01/07-04/14	Department of Environmental Health, UC
David Randolph, MD	09/06-08/14	Department of Environmental Health, UC

POSTDOCTORAL RESEARCH TRAINEES (co-mentor)

Pamela Heckel, PhD	08/09-02/10
Pallash Mallack, PhD	01/13-06/15

MASTER OF SCIENCE STUDENTS (Primary Academic Advisor)

Epidemiology, Department of Environmental Health, UC

Ana Reedy	03/14-05/16
Jennifer Hemmingway	03/11-12/12
Cheryl Bartone	06/08-08/13

Occupational Medicine, Department of Environmental Health, UC

Jeremy S. Standridge, DO	08/06-06/08
Michael Knipp, DO	08/08-06/10
Ifeanyi Nwaneshiudu, MD	06/12-05/14

Physiology, Department of Molecular and Cellular Physiology, UC

Shayan Khalafi	08/12-07/13
Shama Milon	08/12-07/13
Sathyan Mathai	08/12-07/13
Mathias Linder	08/12-07/13
Victoria Fischer	08/11-07/12
Laudann Taravati	08/11-07/12
Andrew Wong	08/10-07/11

Master of Science Students and Certificate Students, Clinical and Translational Research, Department of Environmental Health, UC (Academic Advisor) by academic year:

ACADEMIC YEAR	MS	CERTIFICATE
2009-2010	39	15
2010-2011	56	39
2011-2012	60	53
2012-2013	52	74
2013-2014	45	59
2014-2015	44	61
2015-2016	59	45
2016-2017	63	50

SCHOLARSHIP OVERSIGHT COMMITTEES

Shima Yasin, MD, Rheumatology
Chris Dandoy, MD, Pediatric Cancer
Maya Nanda, MD, Allergy and Immunology
Dawn Pinchasik, MD, Pediatric Cancer
William Hanna, MD, Critical Care
Shilpa Shah, MD, Critical Care
Danielle Webster, MD, Critical Care
Patricia Vega, MD, Rheumatology
Rina Mina, MD, Rheumatology
Khalid Abulaban, MD, Rheumatology
Jordan Jones, MD, Rheumatology
Andrew Bukowinski, MD, Oncology

PhD QUALIFYING EXAMINATION COMMITTEES

Pierce Boyne, College of Allied Health Sciences, UC
Zipporah Inniss-Richter, College of Education, Criminal Justice & Human Services, UC
Sasi Regha, College of Education, Criminal Justice & Human Services, UC
Amar Kanekar, College of Education, Criminal Justice & Human Services, UC
Elizabeth Kopras, College of Medicine, UC
Maryse Amin, College of Medicine, UC
Renee Jeffries, College of Medicine, UC
Shana White, College of Medicine, UC
Cole Brokamp, College of Medicine, UC

MEDIA LINKS

Study links high Manganese levels to low IQ in East Liverpool children

WFMJ.com, September 21, 2017

<http://www.wfmj.com/story/36418593/study-links-high-manganese-levels-to-low-iq-in-east-liverpool-children>

Higher Mn Levels in Children Correlate With Lower IQ Scores, UC Study Finds

September 20, 2017

UC Health News

<http://healthnews.uc.edu/news/?/29412/>

Air Quality Topic of Lion's Speaker

August 27, 2017

The Daily Jeffersonian

<http://www.daily-jeff.com/news/20170827/air-quality-topic-of-lions-speaker>

Commissioners Hear About Air Quality Study

August 23, 2017

The Daily Jeffersonian

<http://www.daily-jeff.com/local%20news/2017/08/23/commissioners-hear-about-air-quality-study>

Air Quality Study Results Presented to Guernsey County Commissioners

August 22, 2017

YourRadioPlace.com

<http://yourradioplace.com/community-news/air-quality-study-results-presented-to-guernsey->

[county-commissioners/](#)

Buckeye Trail Students Participate in Studies

The Daily Jeffersonian

August 1, 2017

<http://www.daily-jeff.com/local%20news/2017/08/01/buckeye-trail-students-participate-in-studies>

House of Hope Keeps Children Safe and Learning During the Summer

WCPO Cincinnati

June 26, 2017

<http://www.wcpo.com/news/local-news/hamilton-county/cincinnati/house-of-hope-keeps-children-safe-and-learning-during-the-summer>

Guernsey, Noble County Student Scientists Play Role in Water Quality Study

YourRadioPlace.com

June 19, 2017

via Ohio School Board Journal—June 2017

<http://yourradioplace.com/community-news/guernsey-noble-county-student-scientists-play-role-in-water-quality-study/>

Article Spotlights Collaborative Project with Cambridge, Byesville Schools

The Daily Jeffersonian

June 18, 2017

via Ohio School Board Journal—June 2017

<http://www.daily-jeff.com/education/2017/06/18/article-spotlights-collaborative-project-with-cambridge-byesville-schools>

Protecting the Environment

Ohio School Boards Association Journal

June 2017

[http://digital.watkinsprinting.com/publication/?i=413099&ver=html5&p=20#{\"page\":20,\"issue_id\":413099}](http://digital.watkinsprinting.com/publication/?i=413099&ver=html5&p=20#{\)

Guernsey Soil and Water Conservation District Hosts Stream Ecology Day

The Daily Jeffersonian

June 8, 2017

<http://www.daily-jeff.com/local%20news/2017/06/08/swcd-hosts-stream-ecology-day>

BTMS Students Visit Moore Memorial Woods

The Daily Jeffersonian

June 4, 2017

<http://www.daily-jeff.com/education/2017/06/04/btms-students-visit-moore-memorial-woods>

Professor, Rolling Hills Teachers Recognized for Collaboration

The Daily Jeffersonian

May 18, 2017

<http://www.daily-jeff.com/local%20news/2017/05/18/professor-rolling-hills-teachers-recognized-for-collaboration>

Speaker at Cincinnati March for Science

April 22, 2017

1,800 Facebook followers RSVPed for the event.

<https://www.facebook.com/events/265245937252595>

Photo of Dr. Erin Haynes speaking at the event was posted on the ScienceMarchCincy Twitter page and received 55 retweets and 165 likes.

<https://twitter.com/ScienceMarchCin/status/855794103845617664>

PEPH Newsletter

Video Promotes Firefighter Health and Safety

March 28, 2017

https://www.niehs.nih.gov/research/supported/translational/peph/currentissue/lists/4_17/index.cfm

Professor works with Meadowbrook Students in Pollution Study

The Daily Jeffersonian

March 22, 2017

<http://www.daily-jeff.com/local%20news/2017/03/22/professor-works-with-meadowbrook-students-in-pollution-study>

Everything You've Wanted to Know About Participating in a Research Study

UC E-Health News Daily

February 23, 2017

<http://healthnews.uc.edu/news/?/28620/>

'Public Health Hazard' in Ohio Has Chicago Community Concerned

WTTW, Chicago Tonight

February 16, 2017

<http://chicagotonight.wttw.com/2017/02/16/public-health-hazard-ohio-has-chicago-community-concerned>

Meadowbrook Students Participate in U. Cincinnati Water Quality Study

YourRadioPlace.com

February 8, 2017

<http://yourradioplace.com/local-news/42460/>

Meadowbrook Students Gather, Test Water Samples

The Daily Jeffersonian

February 2, 2017

<http://www.daily-jeff.com/local%20news/2017/02/02/meadowbrook-middle-school-students-gather-test-water-samples>

Educators, Students to be Equipped with Water Testing Tool

The Daily Jeffersonian

November 27, 2016

<http://www.daily-jeff.com/education/2016/11/27/educators-students-to-be-equipped-with-water-testing-tool>

Guernsey-Noble Business and Professional Women Learn about Local Air and Water Testing Study

The Daily Jeffersonian

November 27, 2016

<http://www.daily-jeff.com/community/2016/11/27/guernseynoble-business-and-professional-women-learn-about-local-air-and-water-testing-study>

Outdoor Science Class “Growing” at Cambridge

YourRadioPlace.com

November 22, 2016

<http://yourradioplace.com/local-news/outdoor-science-class-growing-at-cambridge/>

Commissioners Updated Regarding Air, Water Samples

The Daily Jeffersonian

November 6, 2016

<http://daily-jeff.com/local%20news/2016/11/06/commissioners-updated-regarding-air-water-samples>

Colerain Twp. Fire Department Works to Protect Firefighters from Cancer

WCPO Cincinnati, Channel 9

September 22, 2016

<http://www.wcpo.com/news/local-news/hamilton-county/colerain-township/colerain-twp-fire-department-works-to-protect-firefighters-from-cancer>

Air, Water Study is Planned in Guernsey County

The Daily Jeffersonian

July 7, 2016

<http://daily-jeff.com/local%20news/2016/07/07/air-water-study-is-planned>

U. of Cincinnati to Study Air, Water Quality in Guernsey County

WWKC

July 7, 2016

<http://www.wwkc.com/news/top-local-news/item/17507-u-of-cincinnati-to-study-air-water-quality-in-guernsey-county.html>

Cambridge Lions Learn about Air, Water Quality Grant

The Daily Jeffersonian

June 26, 2016

<http://daily-jeff.com/local%20news/2016/07/26/lions-learn-about-air-water-quality-grant>

Study: Fracking Toxins May Exceed EPA Limits

May 24, 2015

Herald & Review

http://herald-review.com/study-fracking-toxins-may-exceed-epa-limits/article_b657eec0-851b-57bf-b158-d4c01d96f2fc.html

In Heavily Fracked Ohio County, Unsafe Levels of Toxic Pollutants

May 20, 2015

Inside Climate News

<http://insideclimatenews.org/news/19052015/heavily-fracked-ohio-county-unsafe-levels-toxic-air-pollutants-fracking-natural-gas-drilling>

Fracking Could Increase Risk of Cancer

May 14, 2015

Newsweek

<http://europe.newsweek.com/fracking-could-increase-risk-cancer-new-study-finds-327321>

Study Links Secondhand Smoke Exposure to Motor Impairment in Children

May 12, 2015

UC Health News

<http://healthnews.uc.edu/news/?/26161/>

Study Links Low and High Levels of Manganese to Lower IQ Scores in Children

April 22, 2015

UC Health News

<http://healthnews.uc.edu/news/?/26069/>

Focus on Faculty with Erin Haynes, DrPH

September 19, 2013

UC Health News

<http://healthnews.uc.edu/news/?/23162/>

<https://www.youtube.com/watch?v=fP7AvqCnsMo>