

CURRICULUM VITAE

Esther Erdei

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Community Environmental Health Program
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Education:

- University of New Mexico, Health Sciences Center, School of Medicine, Albuquerque, NM
Master in Public Health with Honors,
Epidemiology Concentration Dec 2010

- Eötvös Loránd University of Arts and Sciences,
Faculty of Natural Sciences, Budapest, Hungary
Ph.D. in Immunology, Cum Laude May 2003

- Eötvös Loránd University of Arts and Sciences,
Faculty of Natural Sciences Budapest, Hungary
Masters of Science in Biology Education & Teaching,
Summa Cum Laude, Diploma of Merit Honorary degree June 1994

- Eötvös Loránd University of Arts and Sciences,
Faculty of Natural Sciences Budapest, Hungary
Masters of Science in Biology and Medicine,
Summa Cum Laude, Diploma of Merit Honorary degree June 1991

Postdoctoral Fellowship:

Molecular Epidemiology²

Concentration in Cancer Epidemiology & Prevention 2004-2006

University of New Mexico, School of Medicine,

Department of Internal Medicine

Professional and leadership experience:

- Site Director of the Community Engagement and Outreach Core of the UNM HSC Mountain West Clinical Research Network Infrastructure Network Program (MW CTR-IN), University of New Mexico Health Sciences Center Clinical Translation Science Center June 2018-present
- University of New Mexico, College of Pharmacy, Community Environmental Health Program; Research Assistant Professor January 2014- current
- University of New Mexico, College of Pharmacy, Community Environmental Health Program, Research Scientist June 2013-December 2013
- University of New Mexico, School of Medicine, Department of Internal Medicine, Division of Epidemiology, Biostatistics & Preventive Medicine, Adjunct Faculty – no work hrs assigned, collaboration based Jan 2014-current
- University of New Mexico, School of Medicine, Department of Internal Medicine, Division of Epidemiology & Biostatistics, Immunologist/Health Scientist Nov 2005- June 2013
- Medical School Teacher & Problem Based Learning Tutor; Phase I program- Immunology 2007-2013 & Phase II Medical Educator – Evidence-based Clinical Practice 2011-2012
- National public health officer assigned to the World Health Organization European Offices (Rome, Italy and Bonn, Germany) under the Global Environmental Health Initiative of the United Nations
- Head of Immunology Research Group & the Biological Outdoor Pollution/Pollen Monitoring National Research Network, National Institute of Environmental Health, Jozsef Fodor National Public Health Center, Budapest, Hungary, Department of Biological Monitoring Sept 1995- Jan 2004
- Junior Faculty position, Eotvos Lorand University of Arts and Sciences, Faculty of Natural Sciences University of Natural Sciences- Department of Genetics, Population Genetics and Biochemical Research Laboratory Jan 1991- Sept 1995

Research experience:

- NARCH VII project- Black Hills Center for American Indian Health, Rapid City, South Dakota. Subaward Study PI of the Center (NIH/NIAID - NARCH VII Black Hills Center for American Indian Health): Complex metal exposure and immune status on the Cheyenne River – U261IHS0076-02-01 Years of award: 2013-2018.
- NIH/NIEHS P30 Research Excellence Centers New York University and Massachusetts Institute of Technology subaward on “Education Tools for Teaching Environmental Health Literacy to Nursing Students with Focus on Tribal Populations’ Health and Wellbeing” Collaboration built among academic partners and the Ramapough Lenape Nation, the Cheyenne River Sioux Tribe and the Standing Rock Tribe education institutions May 2018- March 2020

- P50 Center for Native Environmental Health Equity – Research Project 2 Co-PI w/ D. MacKenzie: Complex metal mixtures and health effects; EPA Agreement No: 83615701 Years of award: 7/01/2015 - 06/30/2020. NCE until 5/31/2021.
- Superfund Research Program – UNM METALS project RP1 Co-PI w/ D. MacKenzie & L. Hudson „Thinking Zinc” Zinc Intervention among Navajo Communities - Modulation of Uranium and Arsenic Immune Dysregulation by Zinc Award Years: 09/15/2017 – 09/14/2022

Previously funded research support:

- Prevalence and Risk Factors for Chronic Kidney Disease of Non-Traditional Etiology Subaward Sponsor: Boston University; Primary Awarding Agency JBP Foundation via President and Fellows of Harvard College, Harvard University, Boston, MA. FP2611, Award # 4500002050, Jan 2016- Dec 2017
- S11 ES013339-01A1 Burchiel (UNM PI), Pingitore (UTEP PI) July 2005-Sept 2011 UTEP-UNM ARCH Program on Border Asthma” This special program project grant evaluated environmental asthma in children living near the US-Mexico Border and especially near traffic corridors (border crossing and highways) in poor neighborhoods; the grant funds four research projects, and provides for administrative infrastructure and for UTEP faculty training at UNM HSC. Role: Co-I of Project w/ Maria Amaya, RN, PhD, UTEP PI & Marianne Berwick, PhD, MPH. UNM PI.
- UNM HSC CTSC Fellowship for Participatory Research, Center for Participatory Research Award- Developing Novel Methods for Characterizing Immune Function and Risk in Indigenous populations (HRPO:08-486) Aug 2007- 2009

Teaching experience:

- **Tutor of the Evidence-based Clinical Practice Block Phase II. Medical Student Education,** UNM HSC School of Medicine

Spring 2011-2012

- **Tutor of the Immunology Block Phase I. Medical Student Education,** UNM HSC School of Medicine

Fall 2007 – Fall 2013

- **Environmental Health Science:** Semmelweis Medical University of Budapest

Lecturer on Biological monitoring, application of biomarkers in environmental health

Fall 1999 –Fall 2003

Indoor air quality and health effects Spring 2000-Spring 2003

Biological air pollutants and effects of air toxicants on human body

Spring 1999-Spring 2003

- **Lecturer on Importance of biological air pollutants and their health effects:** International Summer School for Immunologists and graduate medical students of the European Academy of Allergy and Clinical Immunology (EAACI) July 1998
- **Applied Population Genetics:** Genetics Department of the Eötvös Loránd University of Budapest

Junior Faculty, teaching assistant, weekly practical experiences and problem solving for population genetic and biochemical analysis advanced course Fall 1991-Spring 1995

- **Introduction into Human Genetics:** at the Genetics Department of the Eötvös Loránd University of Budapest

Teaching assistant as graduate student of the department Spring 1989-Spring 1991

Honors and distinctions:

- UNM HSC CTSC Team Science Excellence Award 2019 - received on November 15, 2019
- Elected member of the Immunology Committee of the Hungarian National Academy of Sciences based on excellence of PhD thesis work, July 2003 – present
- Recipient of the „Pro Hygiene” Award, the highest Hungarian National Public Health Award for young public health scientist August 2000
- Jozsef Fodor National Public Health Center, Budapest, Hungary, Internal Grant Support and Award for Best Individual Research on “Cytokine measurements among Hungarian asthmatic children – searching for differences in susceptibility to air toxicants” research project 2000-2001
- European Academy of Allergy and Clinical Immunology (EAACI) Training supports in human immunology Berlin, Germany 2001; Lisbon, Portugal 2000; Stockholm, Sweden 1999
- Travel Fellowship of the International Society of Exposure Analysis (ISEA) as a chair of the Award Committee; and chair/facilitator of the Indoor Exposures poster discussion session at the 13th Conference of the International Society of Exposure Analysis (ISEA) September 2003
- Travel Fellowship of the International Society of Environmental Epidemiology for participating and presenting results, contribute for the conference organization at the 14th Conference of ISEE, Vancouver, Canada August 2002
- WHO European Bonn office Fellowship for invited speakers at the WHO-organized “Health and Environment in Central and Eastern Europe” symposium September 2001
- Travel Fellowship of the International Society of Environmental Epidemiology for participating and giving lecture at the 13th Conference of ISEE, Garmisch-Partenkirchen, Germany September 2001

- Travel Fellowship of the International Society of Environmental Epidemiology for participating and giving lecture at the 12th Conference of ISEE, Buffalo, NY., USA August 2000
- USEPA Travel Support and Fellowship as invited speaker and representative of the immune biomarker study group of the EU/PHARE CESAR study of the PM2000: Particulate Matter and Health – The Scientific Basis for Regulatory Decision-making Speciality Conference & Exhibition organized by EPA and AWMA, Charleston, SC., USA January 2000
- Travel Fellowship of the International Society of Environmental Epidemiology for participating and presenting results at the 11th Conference of ISEE, Athens, Greece August 1999
- London School of Hygiene and Tropical Medicine, London, UK Travel Fellowship for participation at “Epidemiology in Public Health” International Summer School and lecture series organized by London School of Hygiene and Tropical Medicine in Prague, Czech Republic July-August 1998
- Travel Fellowship of the International Society of Environmental Epidemiology for participating and presenting results at the 10th Conference of ISEE, in Boston, MA, USA, August 1998

Scientific memberships:

1998- 2010 Member of the International Society of Environmental Epidemiology (ISEE); Secretary of the Central European Chapter of the Society from 2000- 2005.

1998- present Member of the International Society of Exposure Analysis (ISEA), now called International Society of Exposure Science (ISES) Board Member of the Society and Chair of the Student Affairs Committee: 2000-2008

Organizer of the Student/Young Investigator Special Poster Sessions of the annual meetings helping the new generation of researchers introducing their works to the scientific community 1997- 2019

Member of the Hungarian Society of Allergology and Clinical Immunology (HSACI) 1997- present

Member of the European Academy of Allergology and Clinical Immunology (EAACI) 2000- 2007

Research Associate Member of the American Academy of Asthma, Allergy and Clinical Immunology (AAAA&I), Certified Pollen and Mold specialist – certified since 2003

Reviewer for Professional Journals:

American Journal of Epidemiology

American Journal of Preventive Medicine

Archives of Dermatology (2005-2016)

British Journal of Dermatology

Cancer Epidemiology, Biomarkers & Prevention

Cancer Immunology & Immunotherapy

Cancer Research

Cytokine

Environmental International

Human Immunology

JAMA Dermatology (under new name as of 2016-, previously Archives of Dermatology)

Journal of Toxicology & Environmental Health
Journal of Cellular & Molecular Medicine
Oncology Letters
Oral Pathology
PLoS ONE Medicine
Toxicology Reports
Preventing Chronic Diseases – journal of the Centers for Disease Control and Prevention
Clinical Research in Dermatology
Oral Oncology
Journal of Cellular & Molecular Medicine –twice reviewed for them in 2015
PLOS ONE Medicine, Immunology & Genetics – reviewer four times in 2016
BMC Cancer
BMC Public Health
Environmental Radiology

International Journals

Journal of Oral Pathology & Medicine –Denmark
Pan American Journal of Public Health - Journal of the World Health Organization Latin-
American Chapter
International Environmental Health –Elsevier Sussex, UK

Reviewer of Proposals/Grant applications:

Centers for Disease Control and Prevention – PAR 07-231 Doctoral Thesis Research grant applications in public health – 2007-2008

National Cancer Institute – Provocative Questions in Cancer Research Ad hoc Review Committee, 2010-2011

National Cancer Institute – R03 Small Grants in Cancer Epidemiology Review Committee 2011-current

National Cancer Institute –Omnibus Grant Applications in Cancer Epidemiology Review Committee 2013- current

USA Environmental Protection Agency – STAR Award Reviewer Board; Science for Sustainable and Healthy Tribes 2013-2014 March

USA Environmental Protection Agency – 2014 People, Prosperity, and the Planet (P3) Phase I, Panel 1 Peer Review (request was received to serve on Board in December 2014)

Mountain West CTR-IN Program (collaborative effort with the UNM HSC CTSC). Cancer immunology, public health and genetic epidemiology grant applications for Institutional

Development Award (IDeA) program review – May-June 2015.

NIH National Cancer Institute - served on the ZCA1 SRB-X (J1) S: Omnibus R03 & R21 board scientific review discussion in October 27-28, 2015.

Mountain West CTR-IN Program (collaborative effort with the UNM HSC CTSC). Cancer, population health, immunology, public health and epidemiology grant applications for Institutional Development Award (IDeA) program review Circle 5 & Round 7 – March-May 2017; Apr 2019 current

Member of the UNM HSC College of Pharmacy Pilot Award Review Committee, Sep 2017 - present

NIH/NIEHS Research To Action RFA Reviewer Board Member 2020 June

Public service:

2004- present New Mexico Immunization Coalition (NMCI) Steering Committee member

2005- 2010 Co-president of the Hungarian American Club of New Mexico

Language knowledge:

English - excellent (State exam) TOEFL exam

German - good (State exam)

French - basic (4-year study)

Russian – good (State exam)