CURRICULUM VITAE

Donald Kirby Milton, MD, DrPH

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EDUCATION:

1976	Chemistry	BA	University of Maryland, Baltimore County, MD
1980	Medicine	MD	Johns Hopkins University, Baltimore, MD
1985	Public Health	MOccH	Harvard School of Public Health, Boston, MA
1989	Public Health	DrPH	Harvard School of Public Health, Boston, MA

POSTDOCTORAL TRAINING:

Research Fellowships:

1982-3	Occupational Health	Emory University School of Medicine, Atlanta, GA	Clinical Research Fellow
1985-89	Public Health	Harvard School of Public Health, Boston, MA	Doctor of Public Health Candidate

Internship and Residencies:

1980-82	Internal Medicine	Grady Memorial Hospital, Atlanta, GA

1983-84	Internal Medicine	University Hospital, Boston, MA
1984-86	Occupational Medicine	Harvard School of Public Health, Boston, MA

LICENSURE AND CERTIFICATION:

1980	Medical License, Maryland (active)
1981	Medical License, Georgia (inactive)
1984	Medical License, Massachusetts (inactive)
1984	American Board of Internal Medicine, Diplomate
1987	American Board of Preventive Medicine (Occupational Medicine), Diplomate

ACADEMIC APPOINTMENTS:

1988-90	Research Associate	Environmental Science and Physiology	Harvard School of Public Health
1990-97	Assistant Professor of Occupational Medicine	Environmental Health	Harvard School of Public Health
1997-01	Associate Professor of Occupational and Environmental Health	Environmental Health	Harvard School of Public Health
1999-10	Lecturer	Medicine	Channing Laboratory, Harvard Medical School
2001-04	Lecturer on Occupational and Environmental Health	Environmental Health	Harvard School of Public Health
2004-05	Senior Lecturer on Occupational and Environmental Health	Environmental Health	Harvard School of Public Health
2005-14	Adjunct Senior Lecturer	Environmental Health	Harvard School of Public Health
2005-09	Professor	Work Environment	School of Health and Environment, U. Massachusetts Lowell

2009-	Professor	Maryland Institute for Applied Environmental Health / Department of Global, Environmental, & Occupational Health	School of Public Health, University of Maryland College Park
2009-15	Director	Maryland Institute for Applied Environmental Health	School of Public Health, University of Maryland College Park
2012-	Honorary Professor	Department of Epidemiology	School of Public Health, Hong Kong University
2012-	Professor	Department of Medicine	School of Medicine, University of Maryland, Baltimore

CLINICAL APPOINTMENTS:

1986-05	Occupational Medicine Consultant, Fallon Clinic, Worcester MA
1999-10	Associate Physician, Brigham and Women's Hospital, Boston, MA
2015-18	Occupational Medicine Consultant, University of Maryland University Health Center, College Park, MD

OTHER ACADEMIC POSITIONS and MAJOR VISITING APPOINTMENTS:

1998-02	Instructor in Occupational Medicine	School of Health Sciences	Simmons College, Boston, MA

HONORS AND DISTINCTIONS:

1976	B.A. Cum Laude, University of Maryland Baltimore County
1983	Lloyd Hyde Research Award, Highest Honors, Emory University School of Medicine
1985-88	National Research Service Award, Occupational Health Program, Harvard School of Public Health
1988-91	Clinical Investigator Award, National Institute of Environmental Health Sciences

HONORS AND DISTINCTIONS:

2002	Best Paper Award 1999-2000, Indoor Air Journal, International Society for Indoor Air Quality and Climate: "Risk of sick leave associated with outdoor ventilation level, humidification, and building related complaints"
2005	Best Paper Award 2001-2003, Indoor Air Journal, International Society for Indoor Air Quality and Climate: "Risk of indoor airborne infection transmission estimated from carbon dioxide concentration"
2008	Elected, Academy of Fellows, International Society for Indoor Air Quality and Climate
2009	Harriet Hardy Award for Lifetime Achievement, New England College of Occupational and Environmental Medicine
2021-24	MPower Professor, University of Maryland Strategic Partnership: MPowering the State
2023	Elected, Fellow of the Collegium Ramazzini

MAJOR PROFESSIONAL SERVICE:

1985-88	Member, Technical Committee, Massachusetts Coalition for Occupational Health and Safety, Boston, MA
1989-09	Member, Bioaerosols Committee, American Conference of Governmental Industrial Hygienists, Cincinnati, OH Co-author of ACGIH "Guidelines for the assessment of bioaerosols in the indoor environment," First Edition, 1989; Author of endotoxin chapter.
1995-97	Vice Chair, Bioaerosols Committee, American Conference of Governmental Industrial Hygienists, Cincinnati, OH Co-author of ACGIH "Guidelines for the assessment of bioaerosols in the indoor environment," 1996 Second Edition; Author of endotoxin chapter. Primary responsibility for developing an ACGIH Threshold Limit Value (TLV) for endotoxin exposure.
1995-09	Member, Asthma Subgroup, Health Care Services Board, Department of Industrial Accidents, Commonwealth of Massachusetts Contributed major revisions draft asthma diagnosis and treatment guidelines.
1996-97	Peer reviewer, Journal of Occupational and Environmental Medicine

1996-09	Peer reviewer, American Journal of Industrial Medicine
1996	Consultant, American Board of Industrial Hygiene, Lansing, MI. Write certification examination questions on health effects of bioaerosol exposure.
1996-98	Peer reviewer for Journal of Occupational and Environmental Medicine, and American Journal of Industrial Medicine
1997-02	Member, National Institute for Occupational Health and Safety, National Occupational Research Agenda (NORA) Subcommittee on Indoor Environment.
1998-00	Chair, Bioaerosols Committee, American Conference of Governmental Industrial Hygienists, Cincinnati, OH
1998-09	Peer reviewer, Journal of Environmental Monitoring
1998-09	Peer reviewer, Journal of the Air & Waste Management Association
1998	Scientific Peer Review Committee: NIEHS Childhood Environmental Health Centers
1998	Scientific Peer Review Committee: NIEHS Developmental Grant: Environmental Health Sciences Centers
1998-09	American Thoracic Society Taskforce on the Occupational Contribution to the Burden of Asthma and COPD
1999-04	Peer reviewer, American Industrial Hygiene Association Journal
1999-curr	Peer reviewer, American Journal of Respiratory and Critical Care Medicine
2000, 07	Peer reviewer, British Columbia Workers Compensation Research Program
2000-curr	Peer reviewer, Environmental Health Perspectives
2001-14	Advisory Board, Harvard Occupational Medicine Residency Program
2000-	Peer reviewer, BioMed Central
2001-14	Advisory Board, Canadian Agricultural Occupational Health Research Center
2001-14	Member, External Advisory Board, NIEHS Center, UTMB, Galveston, Texas
2002	Consultant on Airborne Infection and Bioterrorism Defense, Centers for Disease Control
2004	Peer reviewer, Childhood Environmental Health Center Grants, NIEHS
2005	Environmental Microbiology Peer Review Panel for Centers for Disease Control, Chief Science Officer and Associate Director of Science
2005	US Executive Office of Management and Budget Official Reviewer for the DHHS Influenza Pandemic Preparedness Plan, Infection Control Recommendations

2006 -09	Member, University of Massachusetts Lowell Institutional Biosafety Committee
2006-curr	Peer Reviewer, Journal of Allergy and Clinical Immunology
2006 -09	Department of Work Environment Representative to UMass Lowell Faculty Senate
2006 -09	Member UMass Lowell Faculty Senate Committee on Research and Development
2006	Invited Stakeholder Representative, CDC Community Mitigation During Pandemic Influenza in the United States,
2007	Peer Reviewer, CDC Dissertation Research Grants
2007-10	Chair, External Advisory Board, NIEHS Center, UTMB, Galveston, Texas
2008-curr	Peer Reviewer, JAMA
2008-09	Chair, Institutional Review Board, University of Massachusetts Lowell
2009	Member, Commercial Ventures and Intellectual Property Advisory Committee, University of Massachusetts Lowell
2010	Member, Special Emphasis Peer Review Panel for NIH MIDAS grants
2010-15	Member, University of Maryland Radiation Safety Committee
2010-curr	Member, University of Maryland College Park, Institutional Review Board
2012	Member, NIH IRAP Peer Review Panel February Review Cycle
2012	Reviewer, Promotion to full Professor, Seoul National University
2012	Reviewer, Appointment to full Professor, Johns Hopkins University, Bloomberg School of Public Health
2014	Member, EPA STAR Grant Panel: Indoor Air and Climate Change
2014-20	Occupational and Environmental Medicine Consultant, University Health Service, University of Maryland College Park
2015	Member, NIH-EPA Review panel, P50 Centers for Excellence on Environmental Health Disparities Research
2016-17	Member, UMD Restricted Research Advisory Committee to Provost Mary Ann Rankin
2016-21	Member, UMD Laboratory Operations Safety Committee.
2017-18	Member, UMD Research Centers and Institutes Review Committee
2017-21	Member, Academic Programs Advisory Committee to Provost Mary Ann Rankin

2018	Promotion and Tenure external reviewer, University of Michigan School of Public Health and National University of Singapore School of Public Health.
2019	Member, Special Emphasis Peer Review Panel for NIH RFA-AI-18-037, Halting TB Transmission in HIV-Endemic and Other High-Transmission Settings.
2019-23	Member, External Advisory Board, Johns Hopkins Center of Excellence for Influenza Research and Surveillance, NIH funded Center.
2019-22	Chair, Campus Infectious Disease Management Committee, University of Maryland College Park
2020-20	Member, COVID-19 Incident Response Team, President's Office, University of Maryland College Park
2020-21	Member, Health, Safety, and Risk Management Committee, President's Office, University of Maryland College Park
2020-curr	Lead Clinical Investigator and Physician Moderna Vaccine Trial for College Students, University of Maryland College Park.
2021-23	External Research Mentor for Assistant Professors, Hong Kong University, School of Public Health
2022-	Chair, Campus Infectious Disease Advisory Committee, University of Maryland College Park
2022-24	Member, Technical Consultation Group on 'through-the-air transmission' (TTAT), World Health Organization
2024-	Member, Infection Prevention and Control of Epidemic- and Pandemic-prone Acute Respiratory Infections Guideline Development Group, World Health Organization

PROFESSIONAL SOCIETIES:

American Thoracic Society
International Society for Environmental Epidemiology
American Public Health Association
American Academy of Allergy Asthma & Immunology
American College of Occupational and Environmental Medicine
American Conference of Governmental Industrial Hygienists
American Society for Microbiology
American Association for Aerosol Research

OTHER PUBLIC SERVICE:

1972-75 Patient Advocate, Waverly Peoples Free Medical Clinic, Baltimore, MD

1975-77 Member, Board of Directors and Chair of Health Committee, Greater Homewood Community Corporation, Baltimore, MD
1976-76 Representative to Organizing Committee of the Central Maryland Health Systems Agency from GHCC, Baltimore, MD
1982-83 Steering Committee Member, Physicians for Social Responsibility, Atlanta, GA

EDITORIAL BOARDS

2003-22 Indoor Air, Official Journal of the International Society for Indoor Air Quality and Climate
2004-14 Applied and Environmental Microbiology
2005-15 BMC Public Health
2023- Indoor Environments, Official Journal of the International Society for Indoor Air Quality and Climate

RESEARCH SUPPORT:

Past Funding:			
1987	Cotton Incorporated	PI	Endotoxin/Cotton Dust Induced Inflammatory Response
1988-91	NIEHS	PI	Soluble and Cell-bound Endotoxins: Lung Toxicity
1988	UAW-GM Joint National Committee	PI	Endotoxin Content of Metal Working Fluids
1991-93	UAW-GM Joint National Committee	Co-PI	Causes and Significance of Acute and Subacute Lung Toxicity of Metal-working Fluids: A proposal for animal studies
1991-94	Owens-Corning Fiberglas Corporation	PI	Acute Respiratory Effects of Fiberglass Manufacture
1994-97	NIOSH	PI	Endotoxin Epidemiology and Exposure Assessment ($150,000)

1995-98	EPA	Co-PI	Bioaerosols, Health, and Productivity in a Large Office Building ($439,305)
1999-01	NIOSH	PI	Prevention of IEQ-Related Absence: An Intervention Study ($749,817)
1998-01	NIOSH	PI	Machining Fluid Microbiology and Health ($770,391)
1998-03	NIOSH	PI	Cooperative Agreement: Identify the Incidence of Occupational Asthma ($598,776)
2002-03	CDC/ASPH	PI	Cooperative Agreement: Indoor Air Pollution: Air Hygiene, and Asthma in Schools ($30,000)
1999-04	NHLBI	PI	A Community-Based Study of Adult Onset Asthma ($3,009,456)
2002-03	Alfred P. Sloan Foundation	PI	Biodefense in the Public School Classroom: a Proposal to Study Respiratory Infection Transmission and Air Hygiene ($45,000)
2000-06	NIEHS	PI	Outdoor Allergen Exposure, Sensitivity and Acute Asthma ($3,418,802)
2003-06	NIAID	PI	Prevention of Airborne Smallpox Transmission ($405,000)
2002-06	NIEHS	Co-I	Endotoxin, Obesity and Asthma in NYC Head Start (Judith Jacobson, PI, Columbia Univ. $207,029 subcontract)
2005-06	NHLBI	Co-I	Breath Analysis Using Quantum Cascade Lasers Phase I SBIR (J. Shorter, PI, Aerodyne Inc. $13,800 subcontract)
1995-08	NIEHS	PI	Home Endotoxin and Childhood Asthma ($2,225,000)
2007-08	Mitre Corp	PI	Biothreat Aircraft Warning System ($210,050)
2005-09	FAA	Co-PI	Airliner Cabin Environmental Research Center of Excellence (J. Spengler PI, Harvard Univ.)
2006-09	CDC	PI	Evaluation of Masks as Source Control NPI ($725,714)
2007-09	UNDEP	Co-PI	Bicomunal Study of Asthma Prevalence in Cyprus ($125,000)
2008-09	NIAID	Co-I	Childhood Origins of Asthma (J Gern, PI, U. Wisconsin, $93,000 subcontract)

2006-09	VA	PI	Ultraviolet Nursing Home Influenza Prevention ($300,000)
2005-10	NIEHS	Co-I	Gene by Environment Interaction and Asthma and Allergy (A. Litonjua, PI, Brigham & Women's H, $465,000 subcontract)
2007-10	NHLBI	Co-I	Breath Analysis Using Quantum Cascade Lasers Phase II SBIR (J. Shorter, PI, Aerodyne Inc., $84,174 subcontract)
2007-10	Cyprus Res. Found.	Co-PI	Obesity and Asthma in Cyprus ($250,000)
2007-10	NIAID	Co-I	National Inner City Asthma Study URECA Project (J Gern, PI, Univ. Wisconsin, $346,905 subcont.)
2008-10	Cyprus Res Found.	Co-PI	Obesity and Asthma in Cyprus Phase II ($500,000)
2006-2010	Veterans Admin.	PI	Aerosol Transmission of Influenza Virus ($396,000)
2009-2012	NIAID	PI	Translational research: from mechanisms of influenza transmission to prevention ($976,985)
2010-2014	NIAID	Co-I	Epidemiology of Home Allergens and Childhood Asthma (Years 15-20, D. Gold PI)
2011-2013	UMD	PI	Novel Exhaled Breath Biomarker Detection ($75K)
2013-2014	DHMH	PI	Marcellus Shale Public Health Study ($150K)
2012-2014	CDC	MPI	Evaluation of modes of influenza transmission (total $10.4M, sub contract $1.28M)
2015-2016	IARPA	PI	Testable Exposome Signatures of Influenza Threats ($3.5M)
2013-2016	CDC	Co-I	National Scale Assessment of Climate Change Related to Asthma Morbidity ($417K)
2016-2018	DARPA	PI	Contagious Phenotypes of Acute Respiratory Infection: Identification, Characterization, and Biomarkers Year 1: ($1.53M)
2017-2020	DARPA & BARDA	PI	Contagious Phenotypes of Acute Respiratory Infection: Identification, Characterization, and

			Biomarkers Year 2: ($2.37M), Year 3: ($3.16M), Year 4: ($2.1M)
2020-21	Bill and Melinda Gates Foundation	PI	COVID-19: Quantifying viral RNA in exhaled breath ($229,422)
2019-21	NIH/Icahn School of Medicine	PI	Biology of Human Influenza in Respiratory Droplets, CEIRS Option to Center for Research on Influenza Pathogenesis ($400,000)
2020-21	CDC	PI	COVID-19: Real-World Tests of Face Coverings as Source Control for COVID-19 ($1,225,009)
2020-22	NSF	Co-I	COVID: Collaborative Research: RAPID: Understanding and Facilitating Remote Triage and Rehabilitation During Pandemics via Visual Based Patient Physiology Sensing ($100,374)
2020-21	College Band Directors National Asso./ National Federation of State High School Asso.	Co-I	Aerosol Generation from Playing Band Instruments and Risk of Infectious Disease Transmission ($152,000)
2021	Washington Metropolitan Area Transit Authority	Co-I	WMATA Bus Air Cleaning Effectiveness with Novel Air Cleaning Systems ($117,171)
2020-22	NIH/Icahn School of Medicine	PI	COVID: COVID-19 surveillance and exhaled breath aerosol assessment study ($738,173)
2020-22	NSF	Co-I	COVID: EAGER: Protecting University Communities from COVID-19 with Model-Based Risk Management ($300,000)
2020-22	NIH/UMB	Co-I	COVID:A Phase 3, Randomized, Stratified, Observer-Blind, Placebo-Controlled Study to Evaluate the Efficacy, Safety, and Immunogenicity of mRNA-1273 SARS-CoV-2 Vaccine in Adults Aged 18 Years and Older ($387,611)
2021-22	Bill and Melinda Gates Foundation	PI	COVID-19: Quantifying viral RNA in exhaled breath ($200,855)
2020-23	NIH/UMB	Co-I	COVID: Implementing Vaccine and Treatment Evaluation (VTEU) clinical site protocols: CoVPN 3004 Noravax Supplement ($318,858)

2021-24	The Flu Lab	PI	Gift to support work of the Public Health Aerobiology and Biomarkers Laboratory ($2,538,285)

Current Funding:			
2021-26	NIH	PI	Evaluating Modes of Influenza Transmission (EMIT-2) using Innovative Technologies and Designs in Controlled Environments ($15,366,533)
2021-28	NIH/Icahn School of Medicine at Mt Sinai	Co-I/PI sub	NIAID Centers of Excellence for Influenza Research and Response ($2,163,000)
2022-27	NIH	Co-I	COVID: Multidisciplinary and Systems Approaches to Preventing the Spread of COVID-19 Among Migrant Farmworkers and Their Surrounding Communities ($3,745,847)
2022-24	NIH	MPI	Elucidating Airborne SARS-CoV-2 Infectivity at Single Aerosol Resolution ($414,425)
2022-28	Balvi Foundation	PI	Gift to support germicidal UV air disinfection research in the Public Health AeroBiology (PHAB) Laboratory ($9,400,934.89)
2022-24	NIH	Co-I	Microcyclone arrays for high resolution bioaerosol fractionation and viable virus collection ($424,875)
2023-25	The Flu Lab	Co-I	Immobilization of Broad and Specific Influenza Antibodies on Quasi-Freestanding Epitaxial Graphene Biosensors for the Rapid, Sensitive Detection of Circulating Influenza (PI Kevin Daniels, $1,348,454)
Pending Funding:			

ADVISEES/ DOCTORAL STUDENTS / FELLOWS:			
Name	Program	Dates	Current Information

Michael D. Walters*	ScD	1990-93	(ret) Director of Environmental Health and Safety, Polaroid Corporation
Jang-Uang Liu, MB	MOH/OEH	1991-92	
Richard Broadhurst, MD	MPH/OEH	1991-92	
Tsung Hsian Lo, MD	MPH/OEH	1991-92	
Douglas J. Robb, DO	MPH/OEH	1992-93	
Frances Grommers, MD	Occ. Med Fellow	1992-93	
Naomasa Hirota, MD	MPH/OEH	1992-93	
Richard L. Neel, MD	MPH/OEH	1992-93	
Abul K. Azad, MD	Occ. Med Fellow	1993-94	
Alamjit S. Virt, MD	MPH/OEH	1993-94	
John W. Burress, MD	MPH/OEH	1993-94	Medical Director, Dept Occupational & Environmental Med, Boston Medical Center
Leo M. Hattrup, MD	MPH/OEH	1993-94	Physician, Virtual Flight Surgeons
Shou Chen Huang, MD	MPH/OEH	1993-94	Occupational Medicine Clinical Practice
Robert E. Antosia, M.D	MPH/OEH	1993-95	Occupational Medicine Clinical Practice
Ginger Chew, ScD	ScD	1993-97	Associate Director for Science, COVID-19 Response, Epidemiologist, Centers for Disease Control and Prevention
Mark J. Tedesco, MD	MPH/OEH	1994-95	Occupational Medicine Clinical Practice
Sung Il Cho, M.D	ScD	1994-95	Professor of Epidemiology Seoul National University Graduate School of Public Health
Theodore Schettler, MD	MPH/OEH	1994-95	Science Director, Science and Environmental Health Network
Michael R. Jarrard, MD	MPH/OEH	1995-96	Occupational Medicine Clinical Practice
P. Mark Glencross, M.D*	Occ. Med Fellow	1995-96	Director, Occupational Medicine and Team Member Health
Robert L. Koffman, MD	MPH/O.E.H	1995-96	
Carol Rao, ScD	ScD	1995-00	Epidemiologist, Centers for Disease Control and Prevention
Christian Benjamin, MD	MPH/OEH	1996-97	Occupational Medicine Clinical Practice

Eileen V. Moy, MD	MPH/OEH	1996-97	Occupational Medicine Clinical Practice
Gina Solomon, MD*	MPH/OEH	1996-97	Chief, Division of Occupational, Environmental, and Climate Medicine, and Professor of Medicine, University of California San Francisco, School of Medicine; Program Director, Public Health Institute, Oakland, CA
Mary C. Fogarty, MD	MPH/OEH	1996-97	
Brian J. Funke, DO	MPH/OEH	1997-98	Occupational Medicine Clinical Practice
James Tacci, MD	Occ. Med Fellow	1997-98	Medical Director and Executive Medical Policy Director for the New York State Workers' Compensation Board
Jodi Ann Siskin, DO	MPH/OEH	1997-98	Occupational Medicine Clinical Practice, US Air Force
Mark D. Najarian, MD	MOH	1997-99	Occupational Medicine Clinical Practice
Matt Clark, MD	MPH/OEH	1998-99	Occupational Medicine Clinical Practice
Verne Backus, MD	MPH/OEH	1998-99	Preventive Medicine Practice, Vermont
Daniel Hohman, DO	MPH/OEH	1999-00	Occupational Medicine Clinical Practice
Joseph Abraham, ScD	ScD	1998-03	Epidemiologist, Clinical Public Health & Epidemiology Directorate, Defense Centers for Public Health - Aberdeen
Ju-Hyeong Park, ScD.*	ScD, Postdoctoral Fellow	1997-99, 1999-00	Senior Research Scientist, National Institute for Occupational Safety and Health
Jungwan Kim, M.D	MPH/OEH	1999-00	Occupational Medicine Clinical Practice
Hsien-Wen Hsu, MD	Occ. Med Fellow	2000-01	Pulmonary Specialist, California
Udeni Alwis, PhD*	Postdoctoral Fellow	2000-02	Research Associate, Centers for Disease Control, National Center for Environmental Health
Kathleen McCarty, ScD	ScD	2001-02	Assistant Professor, Yale School of Public Health

Carissa P. Dioguino, MD	MPH/OEH	2002-03	Head, Univ. Philippines National Poison Management and Control Center
Dawn Laws, MD	MPH/OEH	2002-03	Occupational Medicine Clinical Practice
Theodore Myatt, ScD*	ScD, Postdoctoral Fellow	1999-02, 2002-03	Associate Vice President for Research Integrity, Tufts University
Lauralynn (Taylor) McKernan, ScD	ScD	2002-06	Director Division of Field Studies and Engineering, National Institute for Occupational Safety and Health
Kaman Lai, PhD*	Postdoctoral Fellow	2002-04	Associate Professor, Environmental Science, Hong Kong Baptist University
Howard Brightman, ScD	ScD	1999-05	Senior Director, Enterprise Project Management Office, Boston Children's Hospital
Phillip R Hunt	PhD	2001-2006	Epidemiologist, Evidera, United BioSource Corporation
James McDevitt, PhD*	Postdoctoral Fellow	2004-07	Senior Scientist, 9 Foundations, Inc.
Patricia Fabian, ScD*	ScD, Postdoctoral Fellow	2002-07, 2007-09	Associate Professor, Boston University School of Public Health
Joanne Sordillo, MS*	ScD	2005-08	Associate Director for Environmental Health, Million Veterans Project, Veterans Health Administration
Chun-fu Liu, MPH, ScD*	ScD	2005-08	Chief Epidemiologist, Montgomery County, MD
Anila Bello	ScD	2005-08	Research Professor, University of Massachusetts Lowell
Jennifer McKenzie, *	PhD	2007-10	Director, Medical Writing Science, Vertex Pharmaceuticals
Behrooz Bebod, MD	ScD.	2008-12	Chief Medical Officer SPRYT, Founder & CEO The Entrepreneur’s Doctor
Madhu Khatri, PhD*	PhD	2009-10	Assistant Professor at Panjab University & Wellcome trust/DBT Early Career Fellow
Elizabeth Erdman§	MPH/EHS	2009-12	Scientist, US Consumer Product Safety Commission

Bethany Applebaum§	MPH/EHS	2011-12	Public Health Analyst, US DHHS
Jake Guag§	MPH/EHS	2010-12	Biologist, FDA
Bobbi Snowden§	MPH/EHS	2012-14	Doctoral student, George Washington School of Public Health
Jovan Pantelic*	Postdoctoral Fellow	2012-14	Scientist, Delos – Mayo Clinic Well Living Lab
Fengjie Liu*	Postdoctoral Fellow	2013-14	Principal Scientist, Catalent Pharma Solutions
Kelsey Babik§	MPH/EHS	2013-14	Associate Program Officer at The National Academies of Sciences, Engineering, and Medicine
Jing Yan*	PhD	2012-17	Manager, Advanced Analytics & Data Science, Vanguard Financial Services
Somayeh Youseffi*	Postdoctoral Fellow	2015-19	Data Scientist, i360
P. Jacob Bueno de Mesquita*	PhD / Postdoctoral Fellow	2014-19 2019-21	Assistant Professor of Public Health, Roger Williams University
Rosemary Ezeugoh§	MPH/EHS	2016-18	Doctoral student UMD
Oluwasanmi Adenaiye, MBBS§	MPH/EHS	2016-19	Research Scientist, University of Pittsburgh
Aditi Gupta*	Postdoctoral Fellow	2017-17	Research Scientist, Johns Hopkins School of Medicine
Jeffrey Dalhoff	PhD	2017-19	Industrial Hygienists, NASA Goddard Space Flight Center
Jianyu Lai*	PhD / Postdoctoral Fellow	2019-23 2023-	
Petri Kalliomäki*	Postdoctoral Fellow	2022-24	
Anna Pulley*	PhD	2023-	
Jonathan Vyskocil*	Postdoctoral Fellow	2023-	
*Primary Postdoctoral Mentor or Doctoral Research / Dissertation Advisor § MPH Mentor and/or Research Advisor			

Professional Track Faculty Mentees at the University of Maryland:

Name	Degree	Dates	Title
Michael Grantham	PhD	2010-16	Assistant Research Professor (Current Associate Professor, Missouri Western State University)
Barbara Albert	MD	2016-22	Assistant Clinical Professor
Somayeh Youssefi	PhD	2019-21	Assistant Research Professor (current – data analyst, industry)
Sheldon Tai	PhD	2017-curr	Assistant Research Professor
Jennifer German	PhD	2017-23	Associate Clinical Professor
Filbert Hong	PhD	2017-curr	Principal Research Specialist
Yi Esparza	BS, RN, MS	2019-curr	Research Specialist
Kristen K Coleman	PhD	2021-23	Assistant Research Professor (current – tenure track Assistant Professor)
Kathleen McPhaul	PhD	2021-curr	Associate Research Professor

Tenure Track Faculty Mentees at the University of Maryland:

Name	Degree	Dates	Title
Amir Sapkota	PhD	2009-15	Assistant /Associate Professor (Current – Professor & Chair Epidemiology & Biostatistics)
Amy R Sapkota	PhD	2008-15	Assistant / Associate Professor (Current – Professor & Acting Director MIAEH)
Sacoby Wilson	PhD	2011-15	Assistant Professor (Current – Professor)
Robin Puett	PhD	2011-15	Assistant / Associate Professor (Current – Professor and Associate Dean for Research)
Kristen Coleman	PhD	2023-	Assistant Professor

TEACHING EXPERIENCE:

1989-93	Aerobiology	ACGIH/U Michigan	Participated in course development and lectured on health effects of bioaerosols.
1990-2001	Principles of Toxicology	HSPH/EH TOE 204ab / CCE204ab	Course director. Reorganized course into sections with coherent themes; Course director for EH-half of course including sections on toxic responses of organ systems, toxicity of specific agents, and regulatory toxicology. Developed cases and integrated case method; lecture on overview of biochemical mechanisms in clinical toxicology, immunotoxicology, pulmonary toxicology, cardiovascular toxicology, reproductive toxicology, and toxicology of solvents and of occupational and environmental air pollutants; supervise teaching assistants, write and grade examinations.
1990-	Fundamentals of Industrial Hygiene	HSPH/EH Continuing Education	Lecture on pulmonary function testing, and on occupational lung diseases resulting from organic dusts, metals and fibers.
1990-2005	Occupational Medicine Clinical Rotation	HSPH/EH Fallon Clinic	Developed and precept a practicum rotation for residents that offers referral consultation, medical surveillance, program development, in-plant industrial experience, and collaboration with occupational health nurses, ergonomists, and industrial hygienists.
1990-2005	Occupational Medicine Residency Advisor	HSPH/EH	Advise students in course selection and research project selection and execution.
1990-1998	Occupational Medicine Research Seminar	HSPH/EH	Organize and lead seminar; principal faculty member charged with giving feed back to student presenters, including residents, masters and doctoral candidates.

TEACHING EXPERIENCE:

1990-2005	MPH Advisor	HSPH/EH	Advise MPH students concentrating in EH and Occupational Medicine.
1991-1998	Respiratory Toxicology	U. Mass. Medical Center	Lecturer in U. Mass. MPH course. Gave one to two lectures per year.
1991-1998	Respiratory Epidemiology	HSPH/EHE EHE 268b	Lecture on Occupational Respiratory Epidemiology
1993-2002	Introduction to Aerobiology	HSPH/EH EH 256cd	Co-Developer, Co-Director; Lecture on health effects of biologically derived air pollutants, medical investigations of indoor air quality complaints, airborne infection, and toxicity and exposure assessment of endotoxin and mycotoxin aerosols; write examinations, grade student work.
1998-99	Regulatory Toxicology	HSPH/EH	Co-teach a course on toxicology designed for environmental health, risk management, and industrial hygiene students. Includes lectures on toxicologic mechanisms, organizing and advising student reading and presentations, and grading term papers.
1998	Bioaerosol Assessment and Control	ACGIH	Developed half day course for industrial hygienists presented at the American Industrial Hygiene Conference
1999	Bioaerosol Assessment and Control	ACGIH	Developed and ran two day course for industrial hygienists

TEACHING EXPERIENCE:

2000-	Advanced Seminar in Aerobiology	HSPH/EH EH506cd	Creator and co-director of course for advanced students in aerobiology. The seminars given by myself, my more advanced doctoral students, research staff, and visiting scientists from the EPA and NIOSH-HELD laboratories are the basis for discussion of new exposure assessment and health effects study methods. 2001: Students: 4-5 doctoral students in Environmental Science and Environmental and Occupational Epidemiology. 2003: Course redesigned for advanced masters students and early doctoral students to be more didactic.
2002-04	Principles of Toxicology	HSPH CCE 204	Lecture on immunotoxicology, respiratory toxicology and toxic effects of air pollutants.
2002	Bioterrorism	HSPH / Volpe Center US DOT	Organized one day training course in bioterrorism for US Department of Transportation.
2002	Biosecurity 2002	Harvard Medical International	Lead session on Biosecurity in Transportation, Las Vegas, NV.
2002 -03	Bioterrorism Prep/Resp	HSPH ID287	Lectures on anthrax and smallpox
2003	Biosecurity 2003	Harvard Medical International	Lecture: Was smallpox airborne: evidence and implications, Washington, DC.

TEACHING EXPERIENCE:

2003-09	Introduction to Aerobiology	HSPH/EH EH 256	Course Director; Lecture on health effects of biologically derived air pollutants, medical investigations of indoor air quality complaints, and toxicity and exposure assessment of endotoxin and mycotoxin aerosols; write examinations, grade student work.
2005-09	Introduction to Aerobiology	UML 19.573.201	Course Director; Lecture on health effects of biologically derived air pollutants, medical investigations of indoor air quality complaints, and toxicity and exposure assessment of endotoxin and mycotoxin aerosols; write examinations, grade student work, organized video link synchronous online course with HSPH, Laval University, University of Saskatchewan, and UMass Amherst.
2006-09	Toxicology & Health	UML 19.503.201	Course Director and Primary Faculty: Core course for occupational and environmental health masters and doctoral students covers basic anatomy and physiology as well as a basic introduction to the effects of the major chemical and physical hazards in the modern work and ambient environment. Develop active learning methods for this class, weekly assignments, lead weekly discussions, lecture, grade term papers.
2006	Introduction to Biostatistics and Epidemiology	UML 19.575.201	Core course of the Department of Work Environment curriculum. Give all lectures, write examinations and grade student work. Teaching during sabbatical of the usual instructor.

TEACHING EXPERIENCE:

2007-09	Respiratory Epidemiology	UML 19.678.201	Course Director: Lead advanced epidemiology students on an exploration of the literature, with emphasis on gaining a critical understanding of methods of health outcome assessment, study designs, exposure assessment for epidemiology, and exposure-response models. Topics covered include occupational and environmental exposures with topics tailored to the interests of the current students.
2008-09	Special Topics in Pulmonary Physiology, Pathophysiology and Immunology	UML 19.722.201	Course Director: Advanced epidemiology and Biomedical Technology doctoral students receive a tailored in depth treatment of selected areas of pulmonary physiology, pathophysiology and immunology related to their specific areas of interest.
2011-14	Environmental and Occupational Hygiene	UMD MIEH780	Redesigned course from scratch, revised VPAC documents, taught course for MPH students.
2016-Present	Special Topics in Environmental Health	UMD MIEH688	Seminar for Toxicology and Environmental Health PhD candidates
2016 -	Proposal Development and Marketing for Public Health Scientists	UMD MIEH783	Course Director, created new course for doctoral students and postdoctoral fellows on writing NIH research grant proposals and career development.
2024-	Airborne Infection	UMD MIEH415 / 615	Course Co-Director, created new course for upper-level undergraduates and graduate students on the science behind the covid pandemic

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2. EMIT Results and Plans for the Prometheus@UMDStudy, Infectious Disease Transmission in the Built Environment, Sloan Foundation and Yale-NUS, Singapore, January 12, 2017.
3. EMIT Results and Plans for the Prometheus@UMDStudy, Walter Reed Army Institute for Research, March 9, 2017

4. Can We Define a Contagious Phenotype? Transmission of respiratory viruses: from basic science to evidence based options for control, International Society for Influenza and Other Respiratory Virus Diseases and Li Ka Shing Faculty of Medicine, The University of Hong Kong. Hong Kong, June 20, 2017.
5. College Dorms as a Laboratory for Studying Respiratory Infection. Winter 2018 Mid-Atlantic Microbiome Meetup on Biodefense and Pathogen Detection. University of Maryland, College Park, January 10, 2018.
6. Evaluating Modes of Influenza Transmission – from quarantine studies to college dorms, IGS seminar, University of Maryland School of Medicine, Baltimore, MD, April 19, 2018
7. Evaluating Modes of Influenza Transmission – from quarantine studies to college dorms. Annual Distinguished Lecture, Department of Environmental Sciences, Rutgers University, New Brunswick, NJ, April, 24, 2018.
8. Evaluating Modes of Influenza Transmission – from quarantine studies to college dorms Department of Veterinary Medicine, University of Maryland, College Park, MD, May 2018
9. Objective measures of injury and dysfunction in experimentally induced influenza. Convening on the Influenza Human Viral Challenge Model for Universal Influenza Vaccines, NIH-Bill and Melinda Gates Foundation, London, UK, June 1, 2018.
10. Implications of Infectious Virus in Exhaled Breath and Next Steps in Defining the Role of Airborne Transmission in Influenza. Biodefense World Summit, Bethesda, MD, June 29, 2018.
11. Respiratory virus transmission and the built environment. NSF-NIH Healthy Buildings Workshop, Bethesda, MD, July 20, 2018.
12. Influenza Transmission: Human Studies. Center for Research on Influenza Pathogenesis, Icahn School of Medicine at Mount Sinai, New York, NY. February 21, 2019.
13. Plenary Address: Aerosol Transmission of Influenza: New evidence, research needs, and implications for healthy indoor environments. 4th International Symposium on Bioaerosols and 9th Chinese conference on Indoor Environment and Health, Nanjing, China, May 10-12, 2019
14. Infectious disease aerobiology and transmission of influenza. Department of Pathobiological Sciences, University of Wisconsin-Madison, 15 August 2019.

15. Contagious Phenotypes of Influenza Virus Infection. Options X for the Control of Influenza, International Society International Society for Influenza and other Respiratory Virus Diseases, Singapore, 1 September 2019
16. Milton, D. K. (Presenter and Panelist), Coronavirus in Perspective, "The Novel Coronavirus: What we know about how they infect and spread among us," University of Maryland School of Public Health, Hoff Theater, University of Maryland, College Park, MD, United States. (February 19, 2020).
17. Milton, D., Dean's Council, "THE NOVEL CORONAVIRUS: What We Know About How They Infect and Spread Among Us," University of Maryland Office of the Provost, In Person, College Park, MD, United States. (February 23, 2020).
18. Milton, D. (Presenter), COVID-19 International Research Team, "Transmission Perspective on COVID-19," COVID-19 International Research Team, Zoom. (April 17, 2020).
19. Milton, D. (Discussant), American Chemical Society COVID-19 Resources, "How Much Do Cloth Masks Protect You From Getting the Coronavirus?," American Chemical Society, Online. (April 17, 2020).
20. Milton, D., A Conversation: What Do Science and Data say About the Near Term Future of Singing, "Transmission Perspective on COVID-19and the Future of Singing," The National Association of Teachers of Singing, the American Choral Directors Association (ACDA), Chorus America, Barbershop Harmony Society, and Performing Arts Medical Association (PAMA), Online. (May 5, 2020).
21. Milton, D., Part 2 of A Conversation: What Do Science and Data say About the Near Term Future of Singing, "Transmission Perspective on COVID-19and the Future of Singing," The National Association of Teachers of Singing, the American Choral Directors Association (ACDA), Chorus America, Barbershop Harmony Society, and Performing Arts Medical Association (PAMA), Online. (May 12, 2020).
22. Milton, D., "The Role of Aerosols in the Transmission of SARS-CoV-2," American Dental Association, Webinar. (May 14, 2020).
23. Milton, D., Pharmaron Continuing Education, "Respiratory Viral Infection Transmission:100 years of Influenza and 6 months of COVID-19 Research," Pharmaron, Inc, Webinar, Baltimore, MD, United States. (May 22, 2020).

24. Milton, D., Ted Talk Tuesdays, "Drops, Droplets and Aerosols Meet Respiratory Virus Transmission and Social Distancing," United States Department of Health and Human Services, Biomedical Advanced Research and Development Authority, Webinar. (June 23, 2020).
25. Milton, D. K. (Presenter), Occ-COVID-Science, Solutions & Success Stories, "Understanding and ControllingSARS-CoV2 Transmission," Occupational Health Clinics for Ontario Workers (OHCOW), Webinar. (July 7, 2020).
26. Milton, D. K. Medical Grand Rounds, "Infectious Drops and Aerosols," University of California San Francisco Department of Medicine, Webinar. (July 16, 2020).
27. Milton, D. K. 2nd COVID-19 International Research Team (COV-IRT) Symposium, "Infectious Drops and Aerosols," COVID-19 International Research Team (COV-IRT), Webinar. (July 17, 2020).
28. Milton, D. K. Clean 2020 Virtual Summit, "Infectious Drops and Aerosols," Clean 2020, Webinar. (August 13, 2020).
29. Milton, D. K. Bioaerosol Emissions in the Performing Arts—Reducing Emissions and Exposures, "Infectious Drops and Aerosols," National Association of Schools of Music, Webinar. (August 21, 2020).
30. Milton, D. K. Airborne Transmission of Sars-Cov-2: A Virtual Workshop of The Environmental Health Matters Initiative National Academies of Science, Engineering and Medicine, "Size of Aerosol Particles Containing Respiratory Viruses," National Academies of Science, Engineering and Medicine, Webinar. (August 26, 2020).
31. Milton, D. K. Infectious Diseases Grand Rounds, Institute for Human Virology, "Infectious Drops and Aerosols," University of Maryland School of Medicine, Webinar, Baltimore, MD, United States. (September 14, 2020).
32. Milton, D. K. Department of Atmosphere and Ocean Sciences Seminar, "Infectious Drops and Aerosols," University of Maryland, Webinar, College Park, MD, United States. (September 17, 2020).
33. Milton, D. K. American Association for Aerosol Research Annual Meeting, "Building bridges from aerosols science to clinical infectious disease practice," American Association for Aerosol Research, Webinar. (October 5, 2020).
34. Milton, D. K.COVID-19 Webinar Series, "Building bridges from aerosols science to clinical infectious disease practice," The Aerosol Society (UK), Webinar. (October 7, 2020).

35. Milton, D. K.Indoor Air 2020, "Airborne transmission of SARS-CoV-2 in the indoor environment," International Society for Indoor Air Quality and Climate, Webinar. (November 2, 2020).
36. Milton, D. K. (Re)Opening Safely: An Occupational Health and Safety Perspective, "COVID-19: Understanding Transmission and Mitigation," Maryland Public Health Association, Webinar. (November 5, 2020).
37. Milton, D. K. Hopkins Biocontainment Unit Faculty Seminar, "COVID-19: Understanding Transmission and Mitigation," Johns Hopkins University Schools of Medicine and Public Health, Webinar, MD, United States. (December 2020).
38. Milton, D. K. Keeping Public Spaces Safe Germicidal Ultraviolet Light for Air Sanitation During COVID-19, "How Respiratory Infections Are Transmitted," Center for Global Health Delivery, Advance Access & Delivery, the Belfer Center's Middle East Initiative at the Harvard Kennedy School, and Harvard Global Health Institute of Harvard Medical School, Webinar. (February 25, 2021).
39. Milton, D. K. Public Health Interventions and Countermeasures for Advancing Pandemic and Seasonal Influenza Preparedness and Response, "Evidence for Efficacy and Effectiveness of Non-Pharmaceutical Interventions for Community Control of Communicable Respiratory Infections," National Academies of Science, Engineering and Medicine, Webinar. (March 4, 2021).
40. Milton, D. K. Medical Grand Rounds, Department of Medicine, University of Maryland School of Medicine, “Understanding and Control of Respiratory Virus Transmission,” (March 24, 2021).
41. Milton, D. K. Bowie High School Honors Biology Lecture Series, “Understanding Spread of COVID-19,” (March 25, 2021)
42. Milton, D. K. Coronavirus International Research Team (CoVIRT), “Understanding and Control of Respiratory Virus Transmission,” (March 31, 2021).
43. Milton, D. K. National Academies of Science, Engineering and Medicine Workshop on Pivotal Interfaces of Environmental Health and Infectious Disease Research to Inform Responses to Outbreaks, Epidemics, and Pandemics, “Exposure Science and Infectious Diseases,” (June 8, 2021).
44. Milton, D. K. Potomac Institute. “Causes of Early Control Failure and a Path to Success” (June 29, 2021).

45. Milton, D. K. Maryland Departments of Health and Education Webinar for School Superintendents, “Questions and Answers on School Ventilation: Non-Filtering Air Sanitation Systems. (August 19, 2021).
46. Milton, D. K. California Occupational Safety and Health Administration Hearing on Airborne Infection Standard, “SARS-CoV-2 Is An Airborne Transmitted Infection It Is Time for A Paradigm Shift to Control Indoor Respiratory Infections” (October 14, 2021)
47. Milton, D. K. Defense Threat Reduction Agency. “Airborne Respiratory Virus Transmission and Pandemic Preparedness” (November 22, 2021)
48. Milton, D. K. “Airborne Infection Transmission” University of Cape Town Medical School and Howard Hughes Medical Institute, Janelia Research Campus, Webinar. (June 1, 2022 - 2022).
49. Milton, D. K. “Evaluating Modes of Influenza Transmission -- New studies” St Judes CIDC, Webinar. (June 6, 2022 - 2022).
50. Milton, D. K., “Microbial Emissions from and Deposition in the Human Respiratory Tract” National Academies Transportation Research Board, Webinar. (June 21, 2022 - 2022).
51. Milton, D. K. “Germicidal Ultraviolet Light” National Strategy for Improving Indoor Air Quality, Johns Hopkins Bloomberg School of Public Health, Washington, DC, United States. (September 8, 2022 - 2022).
52. Milton, D. K., Indoor Air, Management of Airborne Pathogens: Lessons, Practices, and Innovations,, "What Have We Learned? SARS-CoV-2 Transmission & Indoor Air: The Source Term," (Presentation) National Academies of Science, Engineering, and Medicine, The Environmental Health Matters Initiative, Webinar. (August 18, 2022 - 2022).
53. German, J., Milton, D., CEIRR Annual Meeting, "Evolution of SARS-CoV-2 shedding in exhaled breath aerosols," (Presentation) CEIRR, Memphis, TN, United States. (August 14, 2022 - August 17, 2022).
54. Milton, D., COVID-19 2y Pandemic Symposium, "Airborne Transmission and the Future of Non-Pharmaceutical Interventions," (Presentation) Rice University, Webinar, Houston, TX, United States. (March 11, 2022).
55. Milton, D., The role of exhaled particles in disease transmission & diagnostics, "A Perspective on Airborne Infection and Prevention," (Presentation) Imed.be/nl, Webinar, Leuven, Netherlands. (March 8, 2022).

56. Milton DK., “Infectious Disease & Viruses: SARS-CoV-2 Transmission and Indoor Air,” ACGIH Webinar November 8, 2022
57. Milton DK., Respiratory protection and source control, Project N95 Staff Meeting, November 15, 2022.
58. Milton, DK. National Air Filtration Association Annual Meeting “Making indoor spaces where we live, work, and play resistant to respiratory virus transmission.” April 12, 2023, Atlanta, GA
59. Milton, DK, Why Is There Confusion About Whether Masks Prevent COVID-19? Public Perceptions, Misperceptions and the Messaging of Science: Mask Basics, Columbia University School of Professional Studies, Webinar May 9, 2023.
60. Milton DK, Key Note Address, "Efficacy and Effectiveness of Germicidal Ultraviolet Light – Limits of Study Design," First International Congress on Far-UVC Science & Technology (ICFUST), Columbia University, June 15, 202.
61. Milton DK, MITIGATE flu Team, Emory University School of Medicine, “Evaluating Modes of Influenza Transmission-2,” September 29, 2023.
62. Milton DK, Rutgers University Center for Public Health Workforce Development, Webinar on Preventin Aerosol-Transmissible Diseases in Healthcare Settings: “Protecting the Workforce from Aerosol Transmission of Communicable Respiratory Pathogens,” October 13, 2023.
63. Milton DK, Collegium Ramazzini Annual Conference, “Airborne infectious hazards: Primacy of engineering controls,” October 23, 2023.
64. Milton DK, National Institute Allergy and Infectious Diseases, Division of Microbiology and Infectious Diseases, Human Influenza Challenge Model Workshop, “Evaluating Modes of Influenza Infection: RCT design, results, implications and ongoing trial,” November 13, 2023.
65. Milton DK, Johns Hopkins Center for Health Security, Workshop on Assessing the Transmission of Infectious Aerosols in the Indoor Environment, “Lessons from Randomized Controlled Trials.” Baltimore, April 4, 2024