

Christine A. Rogers, Ph.D.

Curriculum vitae

Work Address:

University of Massachusetts - Amherst
117 Draper Hall, 40 Campus Center Way
Amherst MA 01003

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EDUCATION

- 1996 **Doctor of Philosophy**, University of Toronto, Department of Botany - Applied Ecology (Aerobiology)
- 1989 **Honours Bachelor of Science**, University of Toronto, Scarborough College Microbiology and Biochemistry

ACADEMIC APPOINTMENTS

- 2012-present **Assistant Director for Academic Safety and Environmental Health**, Environmental Health & Safety, University of Massachusetts Amherst
- 2012-present **Research Assistant Professor**, Environmental Health Sciences, School of Public Health and Health Sciences, University of Massachusetts Amherst
- 2006-2012 **Assistant Professor**, Environmental Health Sciences, SPHHS UMassAmherst
- 2009-2010 **Division Director**, Environmental Health Science, SPHHS UMass Amherst
- 2006-present **Adjunct Assistant Professor**, Harvard University, School of Public Health
- 2003-2006 **Senior Research Scientist**, Harvard University, School of Public Health
- 1998-2003 **Research Associate**, Harvard University School of Public Health
- 1996-1998 **Postdoctoral Research Associate**, The University of Tulsa
- 1985-1989 **Lab Technician II**, University of Toronto, Scarborough College

HONORS

Nominated for UMass Distinguished Teaching Award

2011-2012

College Outstanding Teaching Award	2010-2011
Lilly Teaching Fellowship	2008-09
Nominated for College Outstanding Teaching Award	2008-2009
Visiting Fellowship in a Canadian Government Lab	1994 declined
Ontario Graduate Scholarship	1992-1993
Elizabeth Ann Wintercorbyn Award	1992
Scarborough College Association of Graduate Students Award	1992
University of Toronto Open Fellowship	1989, 1990, 1991
J.F. Goulding Fellowship, U of T	1989-1990
Scarborough College Admission Scholarship	1982-1983
Ontario Scholar	1982

OTHER PROFESSIONAL EXPERIENCES

Co-Director

1999 – present *Aerobiology Instruction and Research (AIR)*- Consulting company providing laboratory analysis for mold investigations; educational workshops on pollen and spore identification, mold-related building investigations, and lectures on health effects of bioaerosols.

Consulting

1999 – 2006 Environmental Health & Engineering – advise on mold related building problems
 2002 - 2006 Covino Environmental Associates – advise on mold related building problems
 1990 - 1992 Janssen Pharmaceutica – advise on timing of pollen seasons
 1990 MeteoMedia Inc. – provide pollen counts for the Weather Network.

RESEARCH FUNDING

<u>Year</u>	<u>Organization</u>	<u>Role</u>	<u>Title & Amount</u>
2012-2014	NIH 1 R15 ES021603-01; UMass C Rogers PI	PI	Development and validation of a chitin assay for environmental samples Total \$397,396
2010-2012	EPA Care grant; K Szegda PI, Pioneer Valley Asthma Coalition Rogers PI on subcontract	Co-PI	Healthy Environment, Healthy Springfield. Total \$84,708, Sub \$14,685
2010-2013	EPA Star grant SU834359010; D Foster PI, Harvard Forest, Harvard Univ, Rogers PI on subcontract	Co-PI	Predicting regional allergy hotspots in future climate scenarios – Putting the where & when on wheezing. Total \$898,634, Sub: \$220,282
2008-10	UMass Amherst Healey Faculty Research Grant	PI	The role of chitin exposure in innate immunity, induction of chitinases and the Th2 pathway \$30,000
2008-2009	UMass M4 Mellon Mutual	PI	Expanding the mentoring network \$1,200

	Mentoring Microgrant		
2008-2012	NIAID to W Phipitanikul PI Brigham and Women's Hospital Muilenberg PI on subcontract	Co-Invest	Allergens in Inner-City Schools and Childhood Asthma. Total \$848,639, Subcontract: \$142,367
2008-2009	NIMH & NIEHS, T. Postolache PI, Univ of Maryland: C. Rogers PI on subcontract	Co-PI	Seasonality of Suicide and Airborne Allergens. Total \$286,771 Subcontract: \$99,000
2006	Clorox Services Company, Inc	PI	Gift to support research efforts on mold after hurricane Katrina \$12,000
2005-2006	NIEHS Center, Pilot Project, Harvard School of Public Health	PI	Asthma: Th2 cascade resulting from chitin exposure in chitinase deficient individuals? \$24,579
2003	Clorox Services Company, Inc	PI	Gift to support research on fungi and cytokines \$7,500
2000-2003	National Oceanic & Atmospheric Administration	PI	Impacts of Climate Variability on Seasonal Pollen Concentrations & Asthma: \$412,092
1999-2000	NASA & National Environmental Trust	Co-PI	Asthma, Aeroallergens and Global Climate Change: An Integrated, Cross-Disciplinary Study \$59,000

PUBLICATIONS

Peer Reviewed Publications (accepted or published)

1. Darrow LA, Hess J, **Rogers CA**, Tolbert PE, Klein M, Sarnat SE 2012. Outdoor Pollen Concentrations and Emergency Department Visits for Asthma and Wheeze. *Journal of Allergy and Clinical Immunology* 130(3): 630-638.e4
2. Manalai P, Hamilton RG, Langenberg P, Kosisky SE, Lapidus M, Balis T, Scrandis D, Cabassa JA, Sleemi A, **Rogers CA**, Regenold WT, Dickerson F, Togias A, Vittone B, Postolache TT, 2012. Pollen-Specific Immunoglobulin E Positivity is Associated with Worsening of Depression Scores in Bipolar Patients during the Peak of the Pollen Season. *Bipolar Disorders* 14: 90-98
3. Woo J-M, Gibbons RD, **Rogers CA**, Qin P, Kim JB, Roberts DW, Noh ES, Mann JJ, Postolache TT 2012. Pollen counts are not significantly associated with suicide rates in the U.S. *Acta Psychiatrica Scandinavica* 125:168-175 doi:10.1111/j.1600-0447.2011.01813.x
4. Woo, J-M, Gibbons RD, Qin P, Komarow H, Kim JB, **Rogers CA**, Mann JJ, Postolache TT 2011. Suicide and Prescription Rates of Intranasal Corticosteroids and Nonsedating Antihistamines for Allergic Rhinitis. *Journal of Clinical Psychiatry*. 72 (10): 1423-1428
5. Ziska LH, Knowlton K, **Rogers CA**, Dalan D, Tierney N, Elder MA, Filley W, Shropshire J, Ford L, Hedberg C, Fleetwood P, Hovanky K, Kavanaugh T, Fulford G, Vrtis R, Patz J, Portnoy J, Coates F, Bielory L, Frenz D, 2011. Recent warming by latitude associated with

- increased length of ragweed pollen season in North America. *Proceedings of the National Academy of Sciences* 108(10): 4248-4251 doi:10.1073/pnas.1014107108
6. Degobbi C, Saldiva P, **Rogers CA**, 2011. Synergistic effects of endotoxin and particulate matter: a review of the literature. *Aerobiologia* 27: 97-105
 7. Wu, AC, Lasky-Su, J, **Rogers, CA**, Klanderman, BJ and Litonjua, A, 2010. Fungal Exposure Modulates the Effect of Polymorphisms of Chitinases on Emergency Department Visits and Hospitalizations. *American Journal of Respiratory and Critical Care Medicine* 182 (7): 884-889 doi:10.1164/rccm.201003-0322OC
 8. Wolf J, O'Neill N, Muilenberg ML, **Rogers CA**, Ziska L, 2010. Elevated Atmospheric Carbon Dioxide Concentrations Amplify *Alternaria alternata* Sporulation and Total Antigen Production. *Environmental Health Perspectives* 118 (9):1223-1228 doi:10.1289/ehp.0901867
 9. Wu AC, Lasky-Su J, **Rogers CA**, Litonjua A, 2010. Polymorphisms of Chitinases are Not Associated with Asthma. *J Allergy Clin Immunol Mar*;125(3):754-7, 757.e1-757.e2.
 10. Sheehan WJ, Rangsitienchai PA, Muilenberg ML, **Rogers CA**, Otsu K, Rivard DV, Gold DR, Lane JP, and Phipatanakul W, 2009. Allergens in Urban Elementary Schools and Homes of Children with Asthma. *Ann Allergy Asthma Immunol. Feb*;102(2):125-30
 11. Ziska LH, Epstein PR, **Rogers CA**, 2008. Climate Change, Aerobiology, and Public Health in the Northeast United States. *Mitig Adapt Strat Glob Change* 13:607-613 DOI 10.1007/s11027-007-9134-1
 12. Taylor McKernan L, Wallingford KM, Hein MJ, Burge HA, **Rogers CA**, Herrick R. 2008. Monitoring microbial populations on wide-body commercial passenger aircraft. *Annals of Occupational Hygiene* 52: 139-149
 13. Peters JL, Muilenberg ML, Burge HA, **Rogers CA**, Spengler JD. 2008 Comparison of *Alternaria* measures in inner-city low-income housing by allergen assay and cultural analysis. *Annals of Allergy Asthma and Immunology Apr*; 100(4):364-9
 14. Peters JL, Levy JI, **Rogers CA**, Burge HA, Spengler JD. 2007. Determinants of allergen concentrations in apartments of asthmatic children living in public housing. *Journal of Urban Health*. 84(2):185-97
 15. Gilmour MI, Jaakola MS, London SJ, Nel A, **Rogers CA**, 2006. How Exposure to Environmental Tobacco Smoke, Outdoor Air Pollutants, and Increased Pollen Burdens Influence the Incidence of Asthma. *Environmental Health Perspectives* 114(4): 627-633 doi:10.1289/ehp.8380.
 16. Hansen DA, Edgerton E, Hartsell B, Jansen J, Burge H, Koutrakis P, **Rogers CA**, Suh H, Chow J, Zielinska B, McMurry P, Mulholland J, Russell A, Rasmussen R. 2006. Air quality measurements for ARIES. *Journal of Air and Waste Management* 56(10):1445-58.
 17. **Rogers CA**, Wayne P, Macklin E, Muilenberg ML, Wagner CW, Epstein PR, Bazzaz FA, 2006. Interaction of the onset of spring and elevated atmospheric CO₂ on ragweed (*Ambrosia artemisiifolia* L.) pollen production. *Environmental Health Perspectives* 114(6): 865-869 doi:10.1289/ehp.8549 PMC1480488
 18. Chew GL, **Rogers CA**, Burge HA, Muilenberg ML, Gold DR. 2003 Dustborne and airborne fungal propagules represent a different spectrum of fungi with differing relations to home characteristics. *Allergy* 58:13-20.
 19. Townsend AR, Howarth RW, Bazzaz FA, Booth MS, Cleveland CC, Collinge SK, Dobson AP, Epstein PR, Holland EA, Keeney DR, Mallin MA, **Rogers CA**, Wayne P, Wolfe A. 2003. Human health effects of a changing global nitrogen cycle. *Frontiers in Ecology and the Environment* 1(3):240-246.

20. **Rogers CA**, 2003 Indoor Fungal Exposure. In R. Weber (ed) Immunology and Allergy Clinics of North America. Elsevier Science, Philadelphia PA 23(3):501-18.
21. Levetin E, Shaughnessy R., **Rogers CA**, Scheir R. 2001. Effectiveness of germicidal UV radiation for reducing fungal contamination within air handling units. Appl. Environ. Microbiol. 2001 August 1; 67(8): p. 3712-3715
22. Tarlo SM, Broder I, Corey P, Yeung M, Ferguson A, Becker A, **Rogers CA**, Okada M, & Manfreda J, 2001. The role of symptomatic colds in asthma exacerbations: 2) influence of outdoor allergens and air pollutants. J. Allergy and Clin. Immunol. 108(1):52-58.
23. Burge HA, **Rogers CA**, 2000. Outdoor Allergens. Environmental Health Perspectives 108(suppl 4): 653-659.
24. Levetin E, **Rogers CA**, Hall SA, 2000. Comparison of pollen sampling with a Burkard spore trap and a Tauber trap in a warm temperate climate. Grana 39(6):294-302.
25. Sterling M, **Rogers CA**, Levetin E, 1999. An evaluation of two methods used for microscopic analysis of airborne fungal spore concentrations from the Burkard spore trap. Aerobiologia 15(1):9-18.
26. **Rogers CA**, Levetin E, 1998. Evidence of long-distance transport of mountain cedar pollen into Tulsa Oklahoma. Int. J. Biometeorol. 42:65-72.
27. **Rogers CA**, 1997. An aeropalynological study of Metropolitan Toronto. Aerobiologia 13(4): 243-257.
28. **Rogers CA**, 1993. Application of aeropalynological principles in palaeoecology. In: GM MacDonald, KD Bennett and LC Cwynar (Editors), Palaeoecological Perspectives and the Vegetation of Canada - A Festschrift in Honour of JC Ritchie. Review of Palaeobotany and Palynology, 79:133-140.

Book Chapters

1. Heinsohn P, Reponen T (**Rogers CA** contributing author) Section 3 Evaluation and Interpretation of Data Collected Prior to Developing a Remediation Strategy. In, Recognition Evaluation and Control of Indoor Mold, Prezant B, Weekes D, Miller JD (eds). 2008 American Industrial Hygiene Association.
2. Martyny JW, Nguyen Weekes LC (**Rogers CA** contributing author) Section 2 Building Evaluation. In, Recognition Evaluation and Control of Indoor Mold, Prezant B, Weekes D, Miller JD (eds). 2008 American Industrial Hygiene Association.
3. Frumhoff PC, McCarthy JJ, Melillo JM, Moser SC, and Wuebbles DJ, 2007 (**Rogers CA** contributing author). Confronting Climate Change in the U.S. Northeast: Science, Impacts, and Solutions. Synthesis report of the Northeast Climate Impacts Assessment (NECIA). Cambridge, MA: Union of Concerned Scientists (UCS).
4. **Rogers CA**, 2000. Pollinosis in North America. In G. D'Amato & S. Bonini (eds.) Pollinosis 2000 : A Global Approach. JGC Editions, Naples Italy. pgs 107-112

Proceedings, Non-Peer reviewed Publications, Editorials & Published Abstracts

1. **Rogers, CA**, 2011. Outdoor Airspora: Patterns, Prevalence, and Impacts. Proceedings of the XVIth Congress of European Mycologists. Halkidiki, Greece, September 19-23, 2011
2. Soriano JJ, Mortensen PB, Frangakis CE, Eaton WW, Tonelli LH, Qin P, **Rogers CA**, Jiao XL,

- Postolache TT, 2006. Air pollution and suicide. *Biological Psychiatry* 59 (8): 35S-35S 114 Suppl. S, Apr 15 2006
3. **Rogers CA**, 2005. A breath of “fresh air”. *Aerobiologia* 21: 151-153 doi:10.1007/s10453-005-9016-5
 4. Epstein PR, **Rogers CA**, 2004. Inside the Greenhouse: The impacts of CO₂ and climate change on public health in the inner city. The Center for Health and the Global Environment.
 5. Muilenberg ML, **Rogers CA**, Wagner CW, Burge HA 2000. Classification of fungal spore levels from Burkard spore trap recoveries. AAAAI Pollen and Spore Report. American Academy of Allergy Asthma and Immunology.
 6. **Rogers CA**, 1999. Regional pollen prevalence in the United States. 1999 AAAAI Pollen and Spore Report. American Academy of Allergy Asthma and Immunology.
 7. **Rogers CA**, 1998. El Nino Influences on 1998 Pollen Concentrations. 1998 AAAAI Pollen and Spore Report. American Academy of Allergy Asthma and Immunology.
 8. **Rogers CA**, Muilenberg, ML 2000. Comprehensive guidelines for the operation of Hirst-type suction bioaerosol samplers. Standardized Protocol of the Pan American Aerobiology Association. Posted at www.paaa.org
 9. Shaughnessy RJ, **Rogers CA**, Levetin E, (1999). The effects of UV-C on biological contamination of AHU's in a commercial office building: Preliminary results. Proceedings of ASHRAE IAQ Conference, New Orleans October 1998.
 10. Levetin E, **Rogers CA**, Buck P 1998. Can we predict seasonal ragweed pollen levels? *J Allergy Clin Immunol* 101(1) : S133 Part 2 Meeting abstract 552
 11. **Rogers CA**, Sterling MJ, Ramsey P, et al. 1998 Diurnal periodicity of aeroallergens. *J of Allergy and Clinical Immunology* 101 (1): 952 Part 2 JAN 1998.
 12. Levetin, E, **Rogers CA**, Main CE, 1998. Forecasting long distance transport of Mountain Cedar pollen. Preprints of the Thirteenth Conference on Biometeorology and Aerobiology. AMS, Boston, pp. 339-340.
 13. **Rogers CA**, 1997. Does yesterday's pollen count accurately predict today's level? *J of Allergy and Clinical Immunology* 99 (1): 624-624 Part 2 Suppl. S JAN 1997
 14. Levetin E, Sommer M, **Rogers C**, Sublette K, Yates R, 1997. Effects of remediation on soil microfungi following a brine spill in the tallgrass prairie. In: K.L. Sublette (Editor), *Environmental Issues and Solutions in Petroleum Exploration, Production and Refining*. Proceedings of the Third International Petroleum Environmental Conference, September 24-27, 1996 Albuquerque NM. Vol 1:51-60.
 15. **Rogers CA**, 1995 Aeroallergens: Pollen. In: Ontario Ministry of Environment and Energy - Air Quality in Ontario - 1994 Comprehensive Report 53-54(Invited Contribution).
 16. **Rogers CA**, 1989. Seasonal patterns of allergenic pollen in Toronto. In, Paul Comtois (ed.), *Aerobiology, Health and Environment: A Symposium*. Proceedings of the First Canadian Aerobiology Conference. University of Montreal, Montreal, 77-91.

INVITED LECTURES

1. Antigens in Asthma and Allergy. Pediatric Grand Rounds, North York General Hospital , Toronto, Ontario June 7, 1992.
2. Forecasting Airborne Allergenic Pollen. Harvard School of Public Health, Depts of

- Environmental Health and Biostatistics. Boston, MA Aug 25 1995.
3. Proposal to establish a database of aerobiological information using the fossil pollen database as a model. Association for Aerobiological Research Symposium: Aerobiological Networks and Information Systems, Cambridge MA June 19, 1997.
 4. Forecasting Models. American Academy of Allergy, Asthma and Immunology Annual meeting Washington DC Mar 16, 1998.
 5. Biology, Ecology and Aerobiology of Fungi in Indoor Environments. Mold Conference for Public Health Professionals. Berlin CT, June 8, 2001.
 6. Perspectives on Aeroallergen Monitoring and Impacts of Bioaerosols on Human Health. Michigan State University, East Lansing November 25, 2002.
 7. Outdoor Pollen Concentrations and Sampling. Allergy Rounds Brigham and Women's Hospital, Boston, MA April 28th 2003.
 8. Aerobiology of fungal spores. Impact of Mold on Human Health Symposium, Harvard University School of Public Health Boston, MA June 7-8, 2004.
 9. The Potential Impact of Global Warming and Climate Change on Asthma. US EPA & NIEHS, Environmental Influences on the Induction and Incidence of Asthma Workshop. Research Triangle Park, NC October 18-19, 2004.
 10. Temporal and Spatial Patterns of Airborne Pollen and Spores. Massachusetts General Hospital Allergy & Immunology Group, Boston, MA December 6, 2005
 11. Fungal Exposure: Species Prevalences, disease agents, and associated health effects. Massachusetts General Hospital Allergy & Immunology Group, Boston MA May 2, 2006.
 12. Knowledge Gaps and Hot Topics in Aerobiology. Keynote Lecture 8th International Congress on Aerobiology, Neuchatel Switzerland Aug 25, 2006.
 13. The importance of understanding plant phenology for human allergies. Phenology Symposium. Ecological Society of America meeting Milwaukee WI Aug 3-8, 2008
 14. Departmental Seminar on "Evidence that chitinases play a role in asthma: What about chitin?" UMass Plant Soil and Insect Sciences Sept 29th, 2008, 20 attendees
 15. Departmental Seminar on "Dampness, Indoor Mold, and Health" for UMass Environmental Health & Safety February 11th, 2009, 20 attendees
 16. Departmental Seminar on "Climate Change Impacts on Bioaerosols" for the Climate Research Center – UMass department of Geosciences April 14th, 2009, 13 attendees
 17. Departmental Seminar on "Pollen and Allergies" for UMass Plant, Soil & Insect Sciences May 5th, 2009, 20 attendees
 18. Outdoor Airspora. Massachusetts General Hospital Allergy & Immunology Group, Boston MA Jan 4 2011 12 attendees
 19. Outdoor Airspora: Patterns, Prevalence, and Impacts. Invited Keynote Lecture XVIth Congress of European Mycologists. Halkidiki, Greece, September 19-23, 2011.
 20. Land use change and climate change vs pollen behaviour. Invited Keynote 5th European Symposium on Aerobiology. Krakow Poland, September 3-7th 2012

TEACHING EXPERIENCE

Courses

2011, 2010, 2009, 2008, 2007,	PUBHLTH 590N	Indoor Environment and Health	Univ Massachusetts Amherst	Course Developer
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2011, 2009, 2007,	PUBHLTH 590M	Introduction to Aerobiology	Univ Massachusetts Amherst	Course Developer
2010, 2007,	PUBHLTH 562	Air Quality Assessment	Univ Massachusetts Amherst	Course Developer
2011, 2010, 2006,	PUBHLTH 592A	Bioaerosol Exposures	Univ Massachusetts Amherst	Course Developer
2008, 2007, 2006, 2005, 2004,	EH256cd	Introduction to Aerobiology	Harvard School of Public Health	Course Developer
2005, 2000	EH506ab	Advanced Seminar in Aerobiology	Harvard School of Public Health	Course Developer

Lectures

2009-2012	EH256ab	Outdoor Aerobiology	Harvard School of Public Health	Lecture
2008, 2007	EH256ab	Introduction to Aerobiology	Harvard School of Public Health	Lecture
2010, 2009	BMATWT 579	Energy Systems - Indoor Contaminants	University of Massachusetts Amherst	Lecture
2008	CE-ENGIN 579	Air Quality - Health effects of air pollution	UMass Amherst-Civil & Env Engineering	Lecture
2008	PUBHLTH 690X	Exposure Assessment in Environmental & Public Health - Biological Exposure Assessment	Univ Massachusetts Amherst	Lecture
2008	PUBHLTH 324	Epidemiology - Airborne Infectious Disease – SARS	University of Massachusetts Amherst	Lecture
2009, 2008, 2007, 2006	PUBHLTH 565	Environmental Health Practices	University of Massachusetts Amherst	Lecture
2002	EH201	Intro to Environmental Health – Indoor Mold	Harvard School of Public Health	Lecture
2003-2012	EH262	Introduction to the Work Environment –Bioaerosols	Harvard School of Public Health	Lecture
2005	EH278ab	Human Health & Global Environmental Change	Harvard School of Public Health	Lecture
2005, 2004		Introduction to Aeroallergens	Brigham and Women's Hospital Allergy & Immunology Group	Lecture

Workshops

2008	Spore Camp	Pan-American Aerobiology Association meeting at University of Massachusetts	Course Developer
2007	Introduction to Molds and Indoor Air Quality Workshop	Montana State University's IMBRE Program	Course Developer

	for tribal councils		
2007	Spore Camp	Pan-American Aerobiology Association meeting at Pennsylvania State University	Course Developer
2001, 2000, 1999, 1998	Intro Pollen and Fungal Spore Identification	American Academy of Allergy Asthma & Immunology	Lecturer
2001, 2000, 1999	Advanced Pollen & Spore Identification	American Academy of Allergy Asthma & Immunology	Course Developer
2001, 2000, 1999	Burkard Training	American Academy of Allergy Asthma & Immunology	Course Developer
1999-2003	A Practical Approach to Aeroallergen Identification	American College of Allergy Asthma & Immunology	Lecturer
2001, 2000	Aeroallergens: All You Need to Know to Pass the Boards	American College of Allergy Asthma & Immunology	Course Developer
2006, 2004	Introductory Spore Identification	Aerobiology Instruction & Research	Course Director
2006, 2003, 2001, 2000	Introductory Pollen and Spore Identification	Aerobiology Instruction & Research	Course Director
2001	Intermediate Pollen Identification	Aerobiology Instruction & Research	Course Director
2003, 2001	Advanced Fungal Spore Identification	Aerobiology Instruction & Research	Course Director

Student Supervision

2010-14	Jennifer Albertine	Univ of Massachusetts Amherst, Plant, Soil & Insect Sciences	Doctoral thesis research	Committee member
2010-12	Julianne Zimmerman	Univ of Massachusetts Amherst, Public Health	Masters Program	Advisor
2010-11	Gaurav Dhawan	Univ of Massachusetts Amherst, Public Health	MPH Program	Advisor
2008-10	Melanie Joy	Univ of Massachusetts Amherst, Public Health	Masters Program	Advisor
2009-10	Shiyong Bian,	Univ of Massachusetts Amherst, Nutrition	Masters Thesis Research	Committee member
2008-11	Boning Liu	Univ of Massachusetts Amherst, Civil & Env Engineering	Doctoral Thesis Research	Committee member
2006-08	Kun-Wan Chen	Univ of Massachusetts Amherst, Public Health	Masters Program	Advisor
2006-08	Debalina Das	Univ of Massachusetts Amherst, Public Health	Masters Thesis Research	Committee member
2007-08	Neeraj Deshpande	Univ of Massachusetts Amherst, Public Health	MPH project	Advisor
2006-07	Jianyong Wu	Univ of Massachusetts Amherst, Public Health	Masters Thesis Research	Committee member
2006-09	Cristiane Degobbi	University of São Paulo, Brazil	Doctoral Thesis	External

	Menusi		Research	Mentor
2005-10	Bonnylynn Dodson	George Washington University	Doctoral Thesis Research	Committee member
2005-07	Lauralynn Taylor	Harvard School of Public Health	Doctoral Thesis Research	Adhoc advising
2003-05	Junenette Peters	Harvard School of Public Health	Doctoral Thesis Research	Adhoc advising
1998	Olukemi Omnifade	The University of Tulsa	Summer REU Research Project	Co-Advisor
1998	Amanda Smith	The University of Tulsa	Summer REU Research Project	Co-Advisor
1997-8	Melinda Sterling	The University of Tulsa	Undergrad Senior Research Thesis	Co-Advisor
1997-8	Dawn Vidoni	The University of Tulsa	Undrgrad Honors Research Thesis	Co-Advisor
1997	Peter Ramsey	The University of Tulsa	Summer REU Research Project	Co-Advisor

SERVICE & COMMITTEES

Editorial Boards

2006 - Associate Editor, *Aerobiologia*
 2004- 2006 *Aerobiologia*, *International Journal of Aerobiology*

Ad Hoc Reviewer (25 Journals)

Aerobiologia, *Agricultural and Forest Meteorology*, *Allergy*, *American Industrial Hygiene Association Journal*, *Annals of Allergy*, *Applied and Environmental Microbiology*, *ASHRAE*, *Atmospheric Environment*, *Canadian Journal of Botany*, *Climate Change*, *Ecology*, *Environmental and Experimental Botany*, *Environmental Health*, *Environmental Health Perspectives*, *Environmental Pollution*, *Grana*, *International Journal of Food Microbiology*, *Journal of Aerosol Science*, *Journal of the Air & Waste Management Association*, *Journal of Allergy & Clinical Immunology*, *Journal of Immunological Methods*, *Lancet*, *National Institute for Occupational Safety and Health (NIOSH)*, *Science of the Total Environment*, *Thorax*

Professional Associations

American Industrial Hygiene Association (AIHA)
 International Association for Aerobiology (IAA)
 Pan-American Aerobiology Association (PAAA)
 American Thoracic Society (ATS)
 International Society of Indoor Air Quality and Climate (ISIAQ)
 International Society for Biometeorology (ISB)
 American Society for Microbiology (ASM)
 Society for Women Environmental Professionals (SWEP) –MA chapter

Professional Activities

Grant Review Panel	2011	NIAID, Asthma and Allergic Diseases Cooperative Research Centers (AADCRC) RFA-AI-10-013
Past-President	2010-2014	International Association for Aerobiology (IAA)
President	2006-2010	International Association for Aerobiology (IAA)
Secretary-General	1998-2006	International Association for Aerobiology (IAA)
Chair of Board	2003-present	Pan-American Aerobiology Certification Board (PAACB)
Grant Proposal Review Executive	2001	National Oceanic and Atmospheric Administration (NOAA)
	1997-2003	Pan-American Aerobiology Association (PAAA) Vice-President 2001-2003; Webmaster 1999-2001; Canadian Representative 1997-1999
Symposium Organizer	2008	Pan-American Aerobiology Association (PAAA) conference University of Massachusetts Amherst June 19-22, 2008
	2000	Pan-American Aerobiology Association (PAAA) conference NY State Museum, Albany NY
	1992	Pan-American Aerobiology Association (PAAA) conference Scarborough College, University of Toronto June 2-6, 1992
	1993	"Science for the Environment", University of Toronto
Committee Member	1995/96	PAAA; develop guidelines for Student Development Award.
	1995/1999	PAAA Sampling Protocol Working Group
	1991/1992	Task Force on Research at Scarborough College
	1989/1992	Computer Sub-committee of the Academic Affairs Committee, Scarborough College, University of Toronto

Other Professional Service

2010	Invited to be an expert reviewer on for the New York State Climate Change Adaptation Assessment Report being produced by the New York State Energy Research and Development Authority's (NYSERDA) ClimAID project - Chapter on Climate Change and Public Health. 2010
2009	Invited to be a member of an international advisory group to the US Environmental Protection Agency– “Group on Earth Observations” http://www.earthobservations.org . GEO Task US-09-01a: Identify Critical Earth Observation Priorities for Societal Benefit Areas – section on Health : Understanding environmental factors affecting human health and well-being – Advisory group on Aerobiology http://sbageotask.larc.nasa.gov/
2009	Hosted a Visiting Lecturer for The Environmental Institute seminar series, Dr. John Spengler, Harvard School of Public Health. May 7th 2009, 50 attendees
2008	Host for the Massachusetts chapter of Society of Women Environmental Professionals meeting. Guest speaker Dr. Susan Lachine, Dept of Microbiology, UMass. Held in conjunction with the UMass Soils Conference October 22nd 2008

(30 attendees)

- 2007-2008 International participant of a working group on Airborne Pathogens and Human Health in the UK (Ka Man Lai, PI). Supported by NERC (Natural Environment Research Council) (18 months). The purpose of the working group is to determine the pathways and interactions of specific airborne pathogens in the natural environment and their routes to and impacts on human health. Presentations October 2007 & November 2008, London UK
- 2005 Advisor to NIEHS; Working Group on Mold Response to Hurricane Katrina

Committees at University of Massachusetts

Administrative Unit	Committee Name or Service	Year or Semester
EHS	Faculty Search Committee	2006-2007
EHS	Graduate Admissions Review	Spring 2007
EHS	Website update & development	2006-2007
EHS	Personnel Committee	2006-2007
EHS	Website update & development	2007-2008
EHS	Chair, Division Personnel Committee – 1 mini-tenure review, 1 PMYR (as committee member)	2007-2008
EHS	Curriculum Committee	2007-2008
EHS	Graduate Admissions Review	Spring 2008
EHS	Curriculum Committee	2008-2009
EHS	Graduate Admissions Review	2008-2009
EHS	Website update & development	2008-2009
EHS	Faculty Search Committee member– 2 positions	2008-2009
EHS	Faculty Search Committee Chair – 2 asst profs hired	2009-2010
EHS	Division Director	2009-2010
EHS	Faculty Search Committee Co-Chair	2010-2011
EHS	Personnel Committee	2010-2011
EHS	2 Faculty Search Committees	2011-2012
EHS	Chair Personnel Committee	2011-2012
EHS	Curriculum Committee	2011-2012
EHS	Graduate Admissions Committee	2011-2012
DPH	Curriculum Committee	2006-2007
DPH	Website Committee	2006-2007
DPH	Undergraduate Admissions Review Science Track	Spring 2007 – Fall 2008
DPH	Undergraduate Program Faculty Advisory Board	2008-2011
DPH	Lab Safety Coordinator	2010-2012

SPHHS	By-Laws Committee	2006-2007
SPHHS	Open house – EHS representative	Fall 2006
SPHHS	Executive Council – substitute EHS representative – 3 meetings	Spring 2007
SPHHS	Chair, Bylaws committee	2007-2008
SPHHS	Life Science Institute committee	Spring 2008
SPHHS	Strategic Planning Committee	2008-2009
SPHHS	Executive Council	2008-2009
SPHHS	Curriculum Committee (one semester)	2011
UMass	New Science Building, Lab Space Committee surrogate (appointed by the Dean)	Spring 2009 – Fall 2010
UMass	SPHHS representative on Institutional Chemical Safety Committee (appointed by Vice-Provost for Research)	Spring 2008 - 2012
UMass	Pandemic Flu Working group	2009-2010
UMass	Institutional Biosafety Committee (appointed by Vice-Chancellor for Research & Engagement)	2012- present
UMass	Radiation Use Committee	2012-present
UMass	University Health Council	2012-present
