

CURRICULUM VITAE

Judith A. Woodfolk

PERSONAL DATA

Date of Birth: 5th November 1966
Place of Birth: Cardiff, Wales
Nationality: U.S. citizen
Marital status: Married (Michael), 3 children (Christopher, Giana & Noah)
Address: Allergy Division, PO Box 801355
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EDUCATION

1985 Bradford Girls' Grammar School, U.K.

POST-GRADUATE EDUCATION

1990 M.B., Ch.B. (M.D. equivalent). Sheffield University Medical School, U.K.
2000 Ph.D., Molecular Medicine, Department of Microbiology, UVA.

ACADEMIC APPOINTMENTS

2018 Professor of Microbiology, Immunology and Cancer Biology, University of Virginia (secondary appointment)
2016 Professor of Medicine, Allergy Division, Department of Medicine, University of Virginia (primary appointment)
2011 Associate Professor (without term), Allergy Division, Department of Medicine, University of Virginia.
2007 Associate Professor (with term), Allergy Division, Department of Medicine, UVA.
2004 Assistant Professor (tenure-eligible), Allergy Division, Department of Medicine, UVA.
1998 Assistant Professor of Research, Allergy Division, Department of Medicine, UVA.
1994 Research Associate, Allergy Division, Department of Medicine, UVA.
1990 Research Assistant, Allergy Division, Department of Medicine, UVA.

HONORS AND AWARDS

2015 Invited Faculty, 10th Symposium of Specific Allergy, Rome Italy.
2014 UVA School of Medicine Research Award, Dean's Strategic Plan (\$5,000).
2011 Plenary lecture, American Academy of Allergy, Asthma and Immunology (AAAAI).
2008 John E. Salvaggio Memorial Lectureship, AAAAI.
2007 Fellow, Leadership in Academic Medicine, UVA.
2007 Excellence in Research Award, Department of Medicine, UVA (\$5,000).
2005 Plenary lecture, British Society of Allergy and Clinical Immunology Meeting.

- 2003 Fujisawa Healthcare Allergic Skin Diseases Research Award.
- 2003 Outstanding Clinical Case Instructor in Immunology/Medical Microbiology, UVA.
- 2001 Beirne Carter Center for Immunology Research Grant (see Financial Resources).
- 2000 Michael J. Peach Outstanding Graduate Student Award nominee, UVA.
- 1996 15th Annual Department of Medicine Research Day Poster Award, UVA.

PROFESSIONAL AFFILIATIONS

- 1998 Member, AAAAI (elected Fellow in 2006)
- 2000- Member, The American Association of Immunologists
- 2002- Member, Collegium Internationale Allergologicum (elected)
- 2004-09 Member, Society for Investigative Dermatology

PROFESSIONAL SERVICE - National and International

- 2001-08 Genetics, Molecular Biology and Epidemiology Committee; AAAAI.
- 2002, 05, 11 NIH/NIAID Focus Group – invited participant.
- 2005 NIH/NIAID Expert Panel on Immunotherapy of Allergic Diseases.
- 2005-06 AAAAI/American Academy of Dermatology Joint Program Planning Work Group.
- 2005-08 Abstract Review Committee: AAAAI Annual Meeting.
- 2006-11 AAAAI Advocacy Task Force.
- 2007- AAAAI Atopic Dermatitis/Eczema Committee.
- 2007 NIH/NIAID Special Emphasis Panel: NIH Tetramer Core Facility
- 2007 NIH/NIEHS Board of Scientific Counselors – *ad hoc* consultant: Review of the Laboratory of Respiratory Biology.
- 2007-11 Scientific Advisory Group: NIH/NIAID contract (BAA NIH-NIAID-DAIT-07-34) awarded to Dr. William Kwok (Benaroya Research Institute) & Dr. Alessandro Sette (La Jolla Institute for Allergy and Immunology).
- 2009 Department of Defense Peer Reviewed Medical Research Program (PRMRP), US Army Medical Research and Materiel Command: Reviewer, Childhood Asthma Panel.
- 2009-11 AAAAI Workshops Subcommittee (BCI Section representative).
- 2009-11 Vice-Chair, Genetics, Molecular Biology and Epidemiology Committee, AAAAI.
- 2010 Immune Tolerance Network – *ad hoc* reviewer.
- 2010-11 AAAAI Mentorship Task Force.
- 2011-13 Chair, Genetics, Molecular Biology and Epidemiology Committee, AAAAI.
- 2011 PhD Thesis reviewer: Ursula Smole, PhD Candidate, Laboratory of Heimo Breiteneder, PhD, University of Vienna, Austria.
- 2011 Medical Research Council, United Kingdom - *ad hoc* expert reviewer.
- 2012 NIH/NIAID Special Emphasis Panel: NIH Tetramer Core Facility.

2013	French National Research Agency, France - <i>ad hoc</i> expert reviewer.
2013-14	Immune Tolerance Network - Scientific advisor for mechanistic studies.
2014	NIH/NIAID Special Emphasis Panel RFA-AI-14-003: Consortium of Food Allergy Research.
2015	The Wellcome Trust, London, UK - <i>ad hoc</i> expert reviewer.
2016	NIH/NIAID Lasker Clinical Research Scholars (Si2/R00) Review Panel.
2016-	Committee on Personalized Medicine, World Allergy Organization.
2017	NIH/NIAID Special Emphasis Panel: ZRG1 IMM-T (90): Allergy, Asthma and Mucosal Inflammation.
2017	NIH/NIAID Workshop panelist: "Atopic Dermatitis and the Atopic March: Mechanisms and Interventions."
2018	NIH/NIAID Special Emphasis Panel: ZRG1 IMM-T (57): Allergy, Asthma and Mucosal Inflammation.
2018	Advocacy for Asthma Research. Panelist, US Congressional Briefing, Capitol Hill: "From Discovery to Delivery: The Role of Research in Addressing Asthma."
2020	NIH/NIAID Study Section: Microbiology and Infectious Diseases Research Committee: 2020/05 MID 1.

RESEARCH INTERESTS

- Systems biology approaches to studying immune mechanisms of rhinovirus-induced asthma exacerbations using an experimental infection model in humans.
- Elucidating hallmarks of protective adaptive immunity in sequential rhinovirus infections in humans.
- Phenotype and function of pathogenic and protective T cells and B cells in severe allergic disease.

BOARDS/EDITORSHIPS/JOURNAL REVIEW

Co-Editor

2016-21 *Clinical and Experimental Allergy*

Section Editor

2014-16 *Current Allergy and Asthma Reports*

Editorial Boards

2009- *Clinical and Experimental Allergy*

2010-15 *Journal of Allergy and Clinical Immunology*

2013-2016 *Current Immunology Reviews*

Reviewer

Allergologia et Immunopathologia; Allergy; American Journal of Respiratory and Critical Care Medicine; Blood; British Journal of Dermatology; Clinical and Experimental Allergy; Clinical and Experimental Immunology; Clinical Immunology; European Journal of Allergy & Clinical Immunology; European Journal of Immunology; Expert Opinion on Biological Therapy; Expert Review of Clinical Immunology; FEMS Immunology & Medical Microbiology; Immunology; Infection and Immunity; International Archives of Allergy and Immunology; Journal of Allergy and Clinical Immunology; Journal of Biological Chemistry; Journal of Clinical Investigation; Journal of

Dermatological Science; Journal of Immunological Methods; Journal of Immunology; Journal of Investigative Dermatology; Journal of Leukocyte Biology, PLoS ONE.

INSTITUTIONAL COMMITTEE SERVICE

University of Virginia, School of Medicine

2003- Flow Cytometry Oversight Committee
2011-12 Research Advisory Committee
2012-15 Co-Chair, Research Advisory Committee
2012-14 Clinical Research Oversight Committee
2013- K Mentoring Committee
2014 Co-Chair, Research Mission Work Group, Academic Strategic Planning Initiative
2016-17 Search Committee: Chief, Division of Pulmonary and Critical Care Medicine.
2019 Search Committee: Associate Dean for Graduate Studies.
2019 Search Committee: Director, Flow Cytometry Core Facility.

University of Virginia, Departmental

2005-06 Research Advisory Committee, Department of Medicine.
2006 Abstract Review Committee, Department of Medicine Research Day.
2006-07 Search Committee: Chief, Division of Rheumatology, Department of Medicine.
2016- Admissions Committee, Biomedical Sciences Graduate Program, MIC.

TRAINING GRANT APPOINTMENTS

2015- Executive Committee, UVA Immunology Training Grant (NIH/NIAID T32 AI007496).
2019- Associate Director, UVA Immunology Training Grant (NIH/NIAID T32 AI007496).

TEACHING ACTIVITIES

Classroom

Instructor: Medical Students

1994-97 *Introduction to Clinical Medicine*, Allergy section
1999-13 *Medical Microbiology: Immunology Clinical Case. The Immunobiology of Mycobacteria*
2000 *Medical Microbiology: Controversies in Medicine*

Instructor: PhD Students

2001 *Advanced Topics in Immunology* (MICR 820/821) - one 90-minute session.
2004 *Advanced Topics in Immunology* (MICR 820/821) - four 90-minute sessions.
2006-07 *Immunology Colloquium* (MIC 836)
2006- *Fundamental Immunology*, Allergy section (MIC 8200/8202)
2006 *Clinical Immunology and Immunopathology* (MIC 829)
2007 & 10 *Research Ethics* (MIC 7100)
2018- *Topics in the Molecular Basis of Human Disease* (BIMS 8131/32)

Lecturer: Residents, Fellows and Faculty

2009 *Immune Mechanisms and Atopic Dermatitis* (Dermatology fellows)
2014 *The Immune Response to Mycobacterium Tuberculosis*. (clinical fellows and faculty, Infectious Diseases Division)
2016- *Career Paths for Physician Scientists*. (clinical fellows, Allergy Division)

Allergy Researchers and Industry Affiliates

- 1995 Course Instructor, *Molecular Biology and Standardization of Allergens*; Vienna, Austria.
- 2000-03 Course Lecturer, *Indoor Allergens and Asthma*; Indoor Biotechnologies Inc., Charlottesville, VA.

Educational Committees - University of Virginia

Committees

- 2000- Member, Organizing Committee, Annual Swineford Allergy Conference.
- 2016 Member, Organizing Committee, 2016 Anderson Symposium on Immunology. 2017 Chair, Organizing Committee, 2017 Anderson Symposium on Immunology.

Mentorship/Advisory Committees

Faculty Mentor Affiliations

- 2004- Child Health Research Center.
- 2005- Biomedical Sciences Graduate Program.
- 2006- Beirne Carter Center Immunology Training Grant.

Post-Doctoral Advisory Committees

- 2019- Aimee Potter, PhD. (*Mentor: Dr. Alison Criss, MIC*).

PhD Advisory and Thesis Committees

- 2002-03 Andrea Nickole, MSTP. (*Mentor: Dr William Petri, Microbiology*). 2004-07 Davis Lok Sim, MSTP. (*Mentor: Dr Umesh Deshmukh, Microbiology*).
- 2005-08 John Lukens, Microbiology. (*Mentor: Dr Young Hahn, Microbiology*). 2007-10 Xiaoti Guo, Microbiology. (*Mentor: Dr. William Petri, Microbiology*).
- 2014-18 Kelly Cox, MIC. (*Mentor: Dr. Loren Erickson, MIC*).

PhD Thesis Supervision

- 2004-08 Kathryn Hulse, Microbiology.
- 2013-18 Lyndsey Muehling, MIC. (*NIH Immunology Training Grant (ITG) award*).
- 2015-19 Jake Eccles, MSTP, MIC. (*NIH ITG award*).
- 2020- Naomi Bryant, MIC.

Distinguished Majors Thesis Supervision

- 2009-10 Anthony Cadena, 4th year undergraduate student.

Clinical Fellows/Junior Faculty Supervised (Allergy Division)

- 2004-07 Career development mentor - Elizabeth Erwin, MD, Assistant Professor.
- 2004-05 Research mentor - Laura Gesicki, MD, Clinical Fellow.
- 2005-06 Research mentor - Marla Moloney, MD, Clinical Fellow.
- 2008-09 Career development mentor – Scott Commins, MD, Assistant Professor. 2009-15 Research mentor - Julia Wisniewski, MD, Clinical Fellow ('09-'11) & Assistant Professor of Pediatrics ('11-'16).
- 2011-13 Research mentor - Marty Romeo, PhD, Assistant Professor of Research. 2012-15 Research mentor - Erin Klaffky, MD PhD, Clinical Fellow. (*NIH ITG award*).
- 2018- K23 research mentor - Catherine Bonham, MD, Assistant Professor.
- 2018- Career development mentor - Emily McGowan, MD, Assistant Professor.

Research Scientists

- 2013-15 Rachana Agrawal, PhD
- 2017-19 Alberta Paul, PhD 2020- Glenda Canderan, PhD

Post-Doctoral Research Fellows

- 2002-03 Raquel Carneiro, MD, Visiting Research Fellow. 2007 Tae Won Song, MD, Visiting Research Fellow. 2009-13 Rachana Agrawal, PhD.
- 2019- Lyndsey Muehling, PhD.

Medical Residents

- 2007 Karen Hsu Blatman, MD. Resident Research Program, Department of Medicine.
- 2011-12 Erin Klaffky, MD PhD. Resident Research Program, Department of Pediatrics.

Medical Student Summer Research Program (MSSRP) and Other

- 2004 Joseph Thoits - MSSRP
- 2011 Mingxi Yu - MSSRP (2013-14: 4th year rotation).
- 2015 Sami Natour - MSSRP
- 2015 Kenneth Bradbury Brown -MSSRP
- 2017 Katie Kearns - 1st year rotation.

PhD Research Rotations

- 2018 Shaquanna Young, MIC.
- 2019 Aman Mangalmurti, MSTP

Undergraduate Laboratory Rotations

- 2005-06 Jennifer Nguyem - Independent Research Program, BIOL 491/498.
- 2008-09 Anthony Cadena - Independent Research Program, BIOL 491.
- 2010 Julia Frankel - summer research.
- 2011-13 Alice Chae - summer and fall research.
- 2011-13 Trevor Ottofaro - Independent Research Program, BIOL 491.
- 2014-15 Donna Anselmo - Independent Research Program, BIOL 4910.
- 2014-15 Alison Nguyen - Independent Research Program, BIOL 4910.
- 2014-15 Sruthi Podoval - summer and fall research.
- 2015 Wendy Wu - summer research.
- 2017 Kathy Nguyen, Cassidy Boomsma, Nicole Kirk - summer research.
- 2017-18 Kathy Nguyen, Cassidy Boomsma, Nicole Kirk - Independent Research program BIOL 4910.
- 2018-20 Jonathan Buchinsky, Kathy Nguyen, Nicole Kirk - summer research.
- 2019- Hejin Jeong - summer research (*Hutcheson Undergraduate Fellowship award*).

Other

- 2002-04 Women in Medicine Club mentor - Whitney Stevens, MSTP.
- 2005 Practicum supervisor, HES 888 - Amanda Reefer, Health Evaluation Sciences Master's Program.
- 2006-08 Faculty mentor for PhD trainees and post-doctoral fellows: Strategic Training in Allergy Research (ST*AR) Program, AAAAI Annual Meetings.
- 2006 Faculty mentor, AAAAI/CIS Summer School, Aspen, CO.

PERSONNEL CURRENTLY SUPERVISED

- Catherine Bonham, MD - Assistant Professor of Medicine
- Glenda Canderon, PhD - Senior Research Scientist.
- Paul Wright, BS - Laboratory Specialist II.
- Lyndsey Muehling, PhD - Post-doctoral research fellow.
- Jonathan Buchinsky, Hejin Jeong - Undergraduate students

GRANTS AND CONTRACTS

Current

NIH/NIAID: 1 U01 AI25056 (PI: **J. Woodfolk** & R. Turner) 06/01/16-05/31/21
Hallmarks of Protective Immunity in Sequential Rhinovirus Infections in Humans.

Objective: To use a systems biology approach to interrogate adaptive immunity to heterotypic rhinovirus strains in an experimental sequential infection model in humans.

Role: Principal Investigator

NIH/NIAID : R21 (PI : **J. Woodfolk**) 02/01/19-01/31/21
Exploring Amplified Th1 Responses and a Role for the IgE/Interferon Axis in Allergic Asthmatics Infected with Rhinovirus.

Objective : To define diverse cell types and signaling networks governing amplified Th1 responses to rhinovirus in asthmatics.

Role: Principal Investigator

NIH/NIAID 2 R01 AI077653 (PI: A. Pomes) 05/01/15-04/30/20
Antigenic Determinants of Asthma-associated Allergens for Design of Immunotherapy.
Objective: To elucidate T cell reactivity to dust mite allergen variants in human-based *in vitro* systems.

Role: Consortium PI.

NIH/NIAID R27 AI020565 (PI: T. Platts-Mills) 07/01/18-06/30/23
IgE Antibodies to the Mammalian Oligosaccharide Galactose-alpha-1, 3-galactose (alpha-gal): Immunology, Epidemiology and Relevance to Allergic and Inflammatory Disease.

Objective: To characterize cellular responses to 'alpha-gal' in patients with meat allergy.

Role: Co-investigator

NIH/NHLBI1 R01 HL 137813 (PI: Q. Yang) 04/01/18-03/31/23
Development and Function of Inflammatory Innate Lymphoid Cells.

Objective: Dr. Woodfolk's role is to advise on studies designed to identify innate lymphoid cell subsets and key transcription regulators that control their differentiation in asthmatic patients.

Role: Consultant

Past (Last 5 years)

NIH/NIAID: 2 R01 AI052196 (PI: **J. Woodfolk**) 05/01/09-04/30/15
Immune Response to Cat: Regulatory and Effector T Cells

Year 5 direct costs: \$230,324 (no cost extension through Year 6)

Role: Principal Investigator

UVA School of Medicine (PI: Erickson, **Woodfolk**, McNamara, Commins) 01/01/15-12/31/15
Transformative Collaborative Science Pilot Grant: *High-Dimensional Immune Profiling of Diverse Inflammatory Diseases Using Mass Cytometry.*

Total direct costs: \$70,000 (Woodfolk component: \$27,000)

Role: Principal Investigator

Danisco/Dupont: FDA ID# EPIARR (R. Turner) 07/01/12-06/01/15
Effect of Probiotic on the Innate and Adaptive Host Response to Rhinovirus.

Direct costs for final year: \$74,760.

Role: Co-Investigator

NIH/NIAID: 1 R01 AI077653 (PI: A. Pomes) 08/25/09-08/24/15
Antigenic Determinants of Asthma-associated Allergens for Design of Immunotherapy.

Annual direct costs: \$25,000 (subaward, years 2-4). No cost extension.

Role: Consortium PI

NIH/NIAID U01 AI100799 (PI: T. Platts-Mills & P. Heymann) 07/01/12-06/30/17 *An Evaluation of Treatment with Omalizumab to Improve the Asthmatic Response to an Experimental Infection with Rhinovirus.*
 Annual direct costs for Woodfolk component: \$274,231 (includes subcontract to W. Kwok, Benaroya Research Institute: \$142,332).
 Role: Lead Investigator of mechanistic studies

NIH/NIAMS: 1 R01 AR059058 (PI: J. Woodfolk & S. Ziegler) 04/01/11-09/30/17
Regulation of TSLP Receptor Expression and Function in Eczema in Mice and Man.
 Annual direct costs for Woodfolk: \$220,000.
 Role: Principal Investigator

NIH/NIAID : 5 R01 AI020565 (PI : T. Platts-Mills) 04/01/13-03/31/18
Dust Mite, Cockroach and Cat Allergens in Asthma.
 Annual direct costs: \$308,202. Role: Co-Investigator

NIH/NIAID : 5 R01 AI020565 (PI : T. Platts-Mills) 07/01/15-03/31/18
Dust Mite, Cockroach and Cat Allergens in Asthma.
 Administrative Supplement: Annual direct costs to Woodfolk lab: \$50,000. Role: Lead Investigator on Supplement

NIH/NIAID: 1 R01 AI108626 (PI: M. Pepper) 04/01/14-03/31/18
The Differentiation and Function of CD4+ Th2 Cells During Allergen-Induced Asthma.
 Annual direct costs: \$25,000 (subaward, years 1-3).
 Role: Consortium PI.

BIBLIOGRAPHY

*Peer-Reviewed Articles. (*Equal contributors).*

1. Heymann PW, Platts-Mills TA, **Woodfolk JA**, Borish L, Murphy DD, Carper HT, Conaway MR, Steinke JW, Muehling L, Gerald TW, Kennedy JL, Irani AM, McGraw MD, Early SV, Wheatley LM, Adams AP, Turner RB. Understanding the Asthmatic Response to an Experimental Rhinovirus Infection: Exploring the Effects of Blocking IgE. *J Allergy Clin Immunol.* 2020 Feb 1. [Epub ahead of print].
2. Eccles JD, Turner RB, Kirk NA, Muehling LM, Borish L, Steinke JW, Payne SC, Wright PW, Thacker D, Lahtinen SJ, Lehtinen MJ, Heymann PW, **Woodfolk JA**. T-bet+ Memory B Cells Link to Local Cross-Reactive IgG upon Human Rhinovirus Infection. *Cell Rep.* 2020;30:351-366.
3. Glesner J, Kapingidza AB, Godzwon M, Offermann LR, Mueller GA, DeRose EF, Wright P, Richardson CM, Woodfolk JA, Vailes LD, Wünschmann S, London RE, Chapman MD, Ohlin M, Chruszcz M, Pomés A. A Human IgE Antibody Binding Site on Der p 2 for the Design of a Recombinant Allergen for Immunotherapy. *J Immunol.* 2019;203:2545-2556.
4. Roberts G, Almqvist C, Boyle R, Crane J, Hogan SP, Marsland B, Saglani S, **Woodfolk JA**. Developments in the field of clinical allergy in 2018 through the eyes of Clinical and Experimental Allergy, Part II. *Clin Exp Allergy* 2019;49:1550-1557.
5. Roberts G, Almqvist C, Boyle R, Crane J, Hogan SP, Marsland B, Saglani S, **Woodfolk JA**. Developments in the mechanisms of allergy in 2018 through the eye of Clinical and Experimental Allergy, Part I. *Clin Exp Allergy* 2019;49:1541-1549.
6. Paul AG, Muehling LM, Eccles JD, **Woodfolk JA**. T cells in severe childhood asthma. *Clin Exp Allergy* 2019; 49:564-581. [Review].

7. Rosen DA, Seki SM, Fernandez-Castaneda A, Beiter RM, Eccles JD, **Woodfolk JA**, Gaultier A. Modulation of the sigma-1 receptor-IRE1 pathway is beneficial in preclinical models of inflammation and sepsis. *Sci Transl Med* 2019; 6;11(478). pii: eaau5266.
8. Muehling LM, Turner RB, Brown KB, Wright PW, Patrie JT, Lahtinen SJ, Lehtinen MJ, Kwok WW, **Woodfolk JA**. Single-cell tracking reveals a role for pre-existing CCR5+ memory Th1 cells in the control of rhinovirus-A39 after experimental challenge in humans. *J Infect Dis*. 2018; 217:381-92.
9. Roberts G, Almquist C, Boyle R, Crane J, Hogan SP, Marsland B, Saglani S, **Woodfolk JA**. Developments in the field of allergy in 2017 through the eyes of Clinical and Experimental Allergy. *Clin Exp Allergy* 2018;48:1606-21. [Review].
10. Roberts G, Boyle R, Crane J, Hogan SP, Saglani S, Wickman M, **Woodfolk JA**. Developments in the field of allergy in 2016 through the eyes of Clinical and Experimental Allergy. *Clin Exp Allergy*. 2017;47:1512-25. [Review].
11. Wisniewski JA, Muehling LM, Eccles JD, Capaldo BJ, Agrawal R, Shirley DA, Patrie JT, Workman LJ, Schuyler AJ, Lawrence MG, Teague WG, **Woodfolk JA**. Th1 signatures are present in the lower airways of children with severe asthma regardless of allergic status. *J Allergy Clin Immunol*. 2018; 141:2048-60.
12. Lotfi-Emran S, Ward BR, Le QT, Pozez AL, Manjili MH, **Woodfolk JA**, Schwartz LB. Human mast cells present antigen to autologous CD4+ T cells. *J Allergy Clin Immunol*. 2018; 141:311-21.
13. Platts-Mills TAE, **Woodfolk JA**. Mite Avoidance as a Logical Treatment for Severe Asthma in Childhood. Why Not? *Am J Respir Crit Care Med*. 2017;196:119-21. [Editorial].
14. Heymann PW, Nguyen HT, Steinke JW, Turner RB, **Woodfolk JA**, Platts-Mills TAE, Martin L, He H, Biagini Myers J, Lindsey M, Sivaprasad U, Medvedovic M, Mahi N, Carper H, Murphy DD, Patrie J, Khurana Hershey GK. Rhinovirus infection results in stronger and more persistent genomic dysregulation: Evidence for altered innate immune response in asthmatics at baseline, early in infection, and during convalescence. *PLoS One*. 2017;12(5):e0178096.
15. Muehling LM, Lawrence MG, **Woodfolk JA**. Pathogenic CD4+ T cells in patients with asthma. *J Allergy Clin Immunol*. 2017;140:1523-40. [Review].
16. Turner RB, **Woodfolk JA**, Borish L, Steinke JW, Patrie JT, Muehling LM, Lahtinen S, Lehtinen MJ. Effect of probiotic on innate inflammatory response and viral shedding in experimental rhinovirus infection - a randomised controlled trial. *Benef Microbes*. 2017;8:207-15.
17. Lawrence MG*, **Woodfolk JA***, Schuyler AJ, Stillman LC, Chapman MD, Platts-Mills TA. Half-life of IgE in serum and skin: Consequences for anti-IgE therapy in patients with allergic disease. *J Allergy Clin Immunol*. 2017;139:422-28.
18. Roberts G, Boyle R, Bryce PJ, Crane J, Hogan SP, Saglani S, Wickman M, **Woodfolk JA**. Developments in the field of clinical allergy in 2015 through the eyes of Clinical and Experimental Allergy. *Clin Exp Allergy*. 2016;46:1389-97. [Review].
19. Roberts G, Boyle R, Bryce PJ, Crane J, Hogan SP, Saglani S, Wickman M, **Woodfolk JA**. Developments in the field of allergy mechanisms in 2015 through the eyes of Clinical & Experimental Allergy. *Clin Exp Allergy*. 2016;46:1248-57. [Review].
20. Muehling LM, Mai DT, Kwok WW, Heymann PW, Pomés A, **Woodfolk JA**. Circulating Memory CD4+ T Cells Target Conserved Epitopes of Rhinovirus Capsid Proteins and Respond Rapidly to Experimental Infection in Humans. *J Immunol*. 2016;197:3214-24.

21. Platts-Mills TA, Schuyler AJ, Erwin EA, Commins SP, **Woodfolk JA**. IgE in the diagnosis and treatment of allergic disease. *J Allergy Clin Immunol*. 2016;137:1662-70. [Review].
22. Platts-Mills TA, Heymann PW, Commins SP, **Woodfolk JA**. The discovery of IgE 50 years later. *Ann Allergy Asthma Immunol*. 2016;116:179-82. [Review].
23. **Woodfolk JA**. Benign TH2 immunity in children: A fresh perspective on control of the allergic response. *J Allergy Clin Immunol*. 2016;137:388-9. [Editorial].
24. **Woodfolk JA**, Glesner J, Wright PW, Kepley CL, Li M, Himly M, Muehling LM, Gustchina A, Wlodawer A, Chapman MD, Pomés A. Antigenic Determinants of the Bilobal Cockroach Allergen Bla g 2. *J Biol Chem*. 2016;291:2288-301.
25. **Woodfolk JA**, Commins SP, Schuyler AJ, Erwin EA, Platts-Mills TA. Allergens, sources, particles, and molecules: Why do we make IgE responses? *Allergol Int*. 2015;64:295-303. [Review].
26. Wisniewski JA, Commins SP, Agrawal R, Hulse KE, Yu MD, Cronin J, Heymann PW, Pomes A, Platts-Mills TA, Workman L, **Woodfolk JA**. Analysis of cytokine production by peanut-reactive T cells identifies residual Th2 effectors in highly allergic children who received peanut oral immunotherapy. *Clin Exp Allergy*. 2015;45:1201-13.
27. Agrawal R, Wisniewski J, Yu MD, Kennedy JL, Platts-Mills T, Heymann PW, **Woodfolk JA**. Infection with human rhinovirus 16 promotes enhanced IgE responsiveness in basophils of atopic asthmatics. *Clin Exp Allergy*. 2014;44:1266-73.
28. Romeo MJ, Agrawal R, Pomés A, **Woodfolk JA**. Reply: To PMID 24084078. *J Allergy Clin Immunol*. 2014;134:762-3.
29. Erwin EA, **Woodfolk JA**, James HR, Satinover SM, Platts-Mills TA. Changes in cat specific IgE and IgG antibodies with decreased cat exposure. *Ann Allergy Asthma Immunol*. 2014;112:545-550.
30. Agrawal R, Woodfolk JA. Skin barrier defects in atopic dermatitis. *Curr Allergy Asthma Rep*. 2014;14:433. [Review].
31. Allakhverdi Z, Comeau MR, Armant M, Agrawal R, **Woodfolk JA**, Sehmi R, Howie KJ, Gauvreau GM, Delespesse G. Mast Cell-Activated Bone Marrow Mesenchymal stromal cells regulate proliferation and lineage commitment of CD34+ progenitor cells. *Front Immunol*. 2013;4:461.
32. Romeo MJ, Agrawal R, Pomés A, **Woodfolk JA**. A molecular perspective on Th2-promoting cytokine receptors in patients with allergic disease. *J Allergy Clin Immunol*. 2014;133:952-60. [Review].
33. Wisniewski JA, Agrawal R, Minnicozzi S, Xin W, Patrie J, Heymann PW, Workman L, Platts-Mills TA, Song TW, Moloney M, **Woodfolk JA**. Sensitization to food and inhalant allergens in relation to age and wheeze among children with atopic dermatitis. *Clin Exp Allergy*. 2013;43:1160-70.
34. Wisniewski J, Agrawal R, **Woodfolk JA**. Mechanisms of tolerance induction in allergic disease: integrating current and emerging concepts. *Clin Exp Allergy*. 2013;43:164-76. [Review].
35. Commins SP, Kelly LA, Rönmark E, James HR, Pochan SL, Peters EJ, Lundbäck B, Nganga LW, Cooper PJ, Hoskins JM, Eapen SS, Matos LA, McBride DC, Heymann PW, **Woodfolk JA**, Perzanowski MS, Platts-Mills TA. Galactose- α -1,3-galactose-specific IgE is associated with anaphylaxis but not asthma. *Am J Respir Crit Care Med*. 2012;185:723-30.
36. Platts-Mills TA, **Woodfolk JA**. Allergens and their role in the allergic immune response. *Immunol Rev*. 2011;242:51-68. [Review].

37. Erwin EA, **Woodfolk JA**, Ronmark E, Perzanowski M, Platts-Mills TA. The long-term protective effects of domestic animals in the home. *Clin Exp Allergy*. 2011;41:920-2. [Editorial].
38. Agrawal R, Wisniewski JA, **Woodfolk JA**. The role of regulatory T cells in atopic dermatitis. *Curr Probl Dermatol*. 2011;41:112-24. [Review].
39. Reefer AJ, Hulse KE, Lannigan JA, Solga MD, Wright PW, Kelly LA, Patrie J, Chapman MD, **Woodfolk JA**. Flow cytometry imaging identifies rare T(H)2 cells expressing thymic stromal lymphopoietin receptor in a "proallergic" milieu. *J Allergy Clin Immunol*. 2010;126:1049-58,
40. Hulse KE, Reefer AJ, Engelhard VH, Patrie JT, Ziegler SF, Chapman MD, **Woodfolk JA**. Targeting allergen to FcγRI reveals a novel Th2 regulatory pathway linked to thymic stromal lymphopoietin receptor. *J Allergy Clin Immunol*. 2010;125:247-56.
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42. **Woodfolk JA**. Microbes and man: an evolving story in asthma. *Clin Exp Allergy*. 2009;39:1112-4. [Editorial].
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44. Platts-Mills TAE, **Woodfolk JA**. Trichophyton asthma. *Chest*. 2009;135:887-888. [Editorial].
45. Commins SP, Satinover SM, Hosen J, Mozena J, Borish L, Lewis BD, **Woodfolk JA**, Platts-Mills TA. Delayed anaphylaxis, angioedema, or urticaria after consumption of red meat in patients with IgE antibodies specific for galactose-α-1,3-galactose. *J Allergy Clin Immunol*. 2009;123:426-33.
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98. Sporik RB, Arruda LK, **Woodfolk J**, Chapman MD, Platts-Mills TA. Environmental exposure to Aspergillus fumigatus allergen (Asp f I). *Clin Exp Allergy.* 1993;23:326-31.
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Meeting Proceedings and Workshop Reports

1. Agrawal R, Hulse K, **Woodfolk JA**. Targeting antibody receptors as an approach towards immunotherapy. *Arb Paul Ehrlich Inst Bundesinstitut Impfstoffe Biomed Arzneim Langen Hess.* 2013;97:153-6.
2. Davidson WF, Leung DYM, Beck LA, Berin CM, Boguniewicz M, Busse WW, Chatila TA, Geha RS, Gern JE, Guttman-Yassky E, Irvine AD, Kim BS, Kong HH, Lack G, Nadeau KC, Schwaninger J, Simpson A, Simpson EL, Spergel JM, Togias A, Wahn U, Wood RA, **Woodfolk JA**, Ziegler SF, Plaut M. Report from the National Institute of Allergy and Infectious Diseases workshop on "Atopic dermatitis and the atopic march: Mechanisms and interventions". *J Allergy Clin Immunol.* 2019;14:894-913.

Chapters

1. **Woodfolk JA**. The role of animal allergens in allergic disease. In *Landmark Papers in Allergy*, 2013. Sheikh A, Platts-Mills T., Worth A., Holgate S. ed. Oxford University Press, Oxford.
2. **Woodfolk JA**, Platts-Mills TA. Allergens. In *Samter's Immunologic Diseases Sixth Edition*. 2001. Austen K.F., ed. Lippincott Williams & Wilkins, Baltimore.

3. Platts-Mills TA, Arruda LK, Carter MC, Perzanowski M, **Woodfolk JA**. The recognition of allergens and their relevance to the morbidity of asthma among inner city children in the United States. In *Fatal Asthma*, 1998. Sheffer A., ed. Marcel Dekker, New York.
4. Platts-Mills TA, **Woodfolk JA**, Smith AM, Carter MC, Ward GW, Jr. Perspectives in antigen specific treatment. In *Asthma and Allergic Diseases Physiology: Immunopharmacology and Treatment*, 1997. Marone G., ed. Academic Press, Vancouver.
5. Platts-Mills TA, **Woodfolk JA**, Wheatley LM. Environmental allergens. In *Allergy and Allergic Diseases: The New Mechanisms and Therapeutics*, 1997. Denburg J.A., ed. Humana Press, Totowa, N.J.
6. Platts-Mills TA, **Woodfolk JA**. Dust mites and asthma. In *Allergy and Allergic Diseases*. 1997. Kay A.B., ed. Blackwell Science Ltd, Oxford, England.
7. Platts-Mills TA, Hayden ML, **Woodfolk JA**, Call RS, Sporik R. House dust mite avoidance regimens for the treatment of asthma. In *Recent Advances in Pediatrics*, Number 13. 1995. David T.J., ed. Churchill Livingstone, Edinburgh, Scotland.

Correspondence

1. Romeo MJ, Agrawal R, Pomés A, **Woodfolk JA**.* Gene silencing and related oligonucleotide therapies for Th2-promoting cytokines. [Reply]. *J Allergy Clin Immunol*. 2014;134:762-3.
2. Reefer AJ, Satinover SM, Wilson BB, **Woodfolk JA**.* Microbial allergen-specific IgE is not suitable to identify the intrinsic form of atopic eczema in children. [Reply]. *J Allergy Clin Immunol*. 2008;121:268.
3. **Woodfolk JA***. Not all proteins are created allergens. [Reply]. *J Allergy Clin Immunol*. 2007;120:724-25.
4. Platts-Mills TA*, Erwin E, **Woodfolk J**, Sporik R. Exposure to pets in childhood and risk of atopic disorders. [Reply]. *JAMA* 2003;289:842-43.
5. Platts-Mills TA*, Sporik RB, **Woodfolk JA**. Cat allergen and sensitisation. [Reply]. *Lancet* 2001;357:2137-38.

Abstracts (Presented by the Woodfolk lab at national and international meetings: last 5 years).

1. Paul AG, Muehling LM, Barone SM, Kwok WW, Irish JM, Turner R, **Woodfolk JA**. A novel system to explore T-cell correlates of cross-protection to rhinovirus in a human sequential infection model. *J Allergy Clin Immunol*. 2020, In press.
2. Paul AG, Lannigan JA, Muehling LM, Eccles JD, Wright PW, Barone SM, Kwok WW, Irish JM, **Woodfolk JA**. Multi-dimensional functional profiling of human rhinovirus-specific T-cells by means of spectral flow cytometry. *CYTO 2019, Vancouver, Canada*; June 22, 2019.
3. Eccles JD, Kirk NA, Paul AG, Turner R, **Woodfolk JA**. Rhinovirus-specific B-cell display signature and functionality consistent with age-associated B-cells. *J Allergy Clin Immunol*. 2019;143:AB192.
4. Muehling L, Agrawal R, Carper H, Platts-Mills T, Kwok W, Heymann P, **Woodfolk J**. Rhinovirus infection augments Th1 responses in allergic asthmatics. *J Allergy Clin Immunol*. 2019;143:AB214. **Featured poster**.
5. Paul AG, Glesner J, Lannigan JA, Muehling LM, Eccles JD, Wright PWW, Pomes A, **Woodfolk JA**. Multi-dimensional T-cell functional analysis by spectral flow cytometry as a tool to dissect endotypes in allergic disease. *J Allergy Clin Immunol*. 2019;143:AB184.

6. Paul, AG, Lannigan JA, Muehling LM, Eccles JD, Heyman PW, Wright, PW, Kwok, WW, **Woodfolk JA**. Spectral flow cytometry offers multi-dimensional functional analysis of human antigen-specific helper T cells. *CYTO 2018, Prague, Czech Republic*; May 3, 2018.
7. Eccles J, Turner R, **Woodfolk J**. High-Dimensional Phenotyping of B-Cells Responding to Rhinovirus Infection. *J Allergy Clin Immunol*. 2018;141(2) Supp AB284, 2018.
8. Muehling L, Agrawal R, Wright P, Kwok W, Heymann P, **Woodfolk J**. Experimental infection with human rhinovirus-A16 reveals an amplified Th1 response in allergic asthmatics. *AAI Annual Meeting, Washington DC*, May 15, 2017.
9. Muehling L, Heymann P, Wright P, Wogslund C, Irish J, Kwok W, **Woodfolk J**. Rhinovirus infection induces dual amplification of virus- and allergen-specific T cells with discrete phenotypes in allergic asthmatics. *J Allergy Clin Immunol*. 2017;139:AB93.
10. Eccles J, Niespodziana K, Valenta R, Turner R, **Woodfolk J**. Optimization of High-Dimensional Phenotyping of B Cells For Studying Rhinovirus Infection. *J Allergy Clin Immunol*. 2017;139:AB12.
11. Muehling L, Heymann P, Wright P, Mai D, Kwok W, **Woodfolk J**. Parallel monitoring of human rhinovirus- and allergen-specific CD4+ T cells during experimental infection in allergic asthmatics. *CYTO 2016, Seattle, WA*; June 14, 2016.
12. Muehling L, Turner R, Agrawal R, Wright P, Patrie J, Lahtinen S, Lehtinen M, Kwok W, **Woodfolk J**. Monitoring circulating virus-specific CD4+ T cells and probiotic effect in an experimental rhinovirus challenge model. *J Allergy Clin Immunol*. 2016;137:AB95.
13. Agrawal R, Heymann P, Platts-Mills T, **Woodfolk J**. Interrogation of the effects of rhinovirus on Th2 promoting pathways in allergic asthma. *J Allergy Clin Immunol*. 2016;137:AB90.
14. Eccles JD, Muehling LM, Turner R, **Woodfolk JA**. Tracking and characterizing human B-cell responses in rhinovirus infection. *J Allergy Clin Immunol*. 2016;137:AB278.
15. Muehling L, Wogslund C, Agrawal R, Heymann P, Irish J, **Woodfolk JA**. Use of mass cytometry to identify circulating T cell populations involved in pathogenic responses to human rhinovirus. *CYTO 2015, Glasgow, Scotland*; June 26, 2015. **Best poster award**.
16. Agrawal R, Heymann PW, Platts-Mills TAE, **Woodfolk JA**. Rhinovirus infection modulates the activation status of circulating basophils and dendritic cells. *J Allergy Clin Immunol*. 2015; 135:AB239.
17. Muehling L, Wogslund C, Agrawal R, Heymann P, Irish J, **Woodfolk J**. High-dimensional single-cell monitoring of circulating cells in allergic asthmatics infected with rhinovirus reveals dynamic flux in diverse immune cells. *J Allergy Clin Immunol*. 2015;135:AB382. **Late-breaking abstract**.
18. Muehling L, Mai D, Kwok W, Agrawal R, Wright P, **Woodfolk J**. Circulating rhinovirus-specific CD4+ T cells in uninfected subjects recognize conserved epitopes. *J Allergy Clin Immunol*. 2015;135:AB382. **Featured poster**.

CONSULTING

2017- Boehringer Ingelheim.

TECHNOLOGY TRANSFER ACTIVITY

Inventions: U.S. Provisional Patent Application Serial No. 62/118,084. Filed on February 19, 2015. Title: Compositions and Methods for Preventing and Treating Rhinovirus Infections. UVALVG Reference: Turner-Rhino (02152-01). Inventors: Judith A. Woodfolk MBChB PhD, William Kwok PhD, Lyndsey Muehling MS.

INVITED LECTURES AND SYMPOSIA (**continuing medical education)

Presentations at the University of Virginia

1. 34th Annual Swineford Conference. *Effect of Tannic Acid on Indoor Allergens*. April, 1995.**
2. Immunology Research in Progress Series. *The Immune Response to Trichophyton*. December, 1998.
3. 40th Annual Swineford Conference. *The Immune Response to Intrinsic and Extrinsic Allergens*. April, 2001.**
4. Beirne Carter Center Immunology Retreat. *Sensitization and Tolerance to Cat Allergen*. June, 2002.
5. Immunology Research in Progress Series. *T Cell Responses to Cat Allergen: Clues to Tolerance*. January, 2003.
6. 43rd Annual Swineford Conference. *Regulation of Allergic Responses*. April, 2004.**
7. Molecular Medicine Lecture Series (MSTP students). *Why Does Living with a Cat Protect Against Allergy?* April, 2004.
8. Asthma and Allergic Diseases Center NIH/NIAID Retreat. *T Cell Control of Responses to Cat Allergen*. May, 2004.
9. General Clinical Research Center. NIH Site Visit. *Effect of Allergen Avoidance on the Immune Response to Allergens in Patients with Atopic Dermatitis*. November, 2004.
10. SCOR on SLE Seminar Series, Department of Microbiology. *Immune Dysregulation in Atopic Dermatitis*. March, 2006.
11. Dean's Lecture Series. *From Anaphylaxis to Atopic Dermatitis: The Evidence for a Causal Role of IgE Antibodies and the Relevance of "Control" by T Cells*. September, 2007.
12. Dermatology Department Friday Seminar Series. *Immune Mechanisms and Atopic Dermatitis*. September, 2009.
13. 49th Annual Swineford Conference. *Regulatory T Cells as a Target for Therapy*. April, 2010.**
14. Mini-Symposium on Allergen Structure and Function. *Human Allergen-Specific T Cell Responses*. October, 2010.
15. 52nd Annual Swineford Conference. *Is TSLP the Master Switch for Allergic Inflammation?* April, 2013.**
16. 53rd Annual Swineford Conference. *Investigating T Cell Responses in Rhinovirus Challenge*. April, 2014.**
17. MSTP Annual Retreat. *Rhinovirus Challenge Models in Humans: Bench to Bedside*. July, 2014.
18. University of Virginia School of Medicine Research Retreat. *Mass Cytometry as a Tool for Studying Mechanisms of Immunity to Rhinovirus*. February, 2017.
19. 57th Annual Swineford Conference. *T-cell Mechanisms of Rhinovirus-Induced Asthma and the Link to IgE*. April, 2018.**
20. Department of Microbiology, Immunology & Cancer Biology, Seminar Series. *The Adaptive Response to Rhinovirus*. January, 2019.

Invited National and International Lectures/Symposiums (since 2000)

1. 27th Annual Meeting of the Louisiana Allergy, Asthma and Immunology Society
*Environmental Strategies: What Works and What Doesn't.***
New Orleans, LA, June 23-25, 2000.
2. International Congress of Allergology and Clinical Immunology (XVIII CACI).
Symposium. *Trichophyton Allergens and Late-Onset Asthma.***
Sydney, Australia; October 15-20, 2000.
- 3-4. Annual Meeting of the AAAAI.
 - (i) Workshop. *Environmental Immune Responses: Relevance of a Modified Th2 Response.***
 - (ii) Workshop. *Allergen Abatement – What Really Works.***
New Orleans, LA, March 16-21, 2001.
- 5-7. Annual Meeting of the AAAAI.
 - (i) Grand Seminar. *T-Cell Recognition of Foreign Allergens.***
 - (ii) Symposium. *Sensitization and Tolerance to Common Aeroallergens.***
 - (iii) Workshop. *Environmental Immune Responses: Relevance of a Modified Th2 Response.***
New York, NY, March 1-6, 2002.
8. 24th Symposium of the Collegium Internationale Allergologicum.
Modified Th2 Response to Cat: Relevance of Major T Cell Epitopes of Fel d 1 Chain 2.
Bermuda, November 1-6, 2002.
9. British Society of Immunology/British Society of Allergy and Clinical Immunology Joint Congress.
*Tolerance to Cats: The Alternative Response to Allergy?***
Harrogate, England, December 3-6, 2002.
10. Annual Meeting of the AAAAI.
Symposium. *Mechanisms of Tolerance to Inhaled Allergens.***
Denver, CO, March 7-12, 2003.
11. Annual Meeting of the AAAAI.
World Allergy Forum: New Treatment Modalities for Allergic Disease.
Postgraduate Symposium. *The Role of IgE Antibodies in Allergic Diseases: New Paradigm.***
San Francisco, CA, March 19-23, 2004.
12. XXIIIrd Annual Congress of the European Academy of Allergology and Clinical Immunology.
Main Symposium. *Inhalant Allergens: Activation or Tolerance?***
Amsterdam, the Netherlands, June 12-16, 2004.
13. National Institutes of Environmental Health and Safety (NIEHS).
Work in Progress Series, Laboratory of Pulmonary Pathobiology: Darryl Zeldin, MD.
Tolerance to Cats: A Model for Regulation of the Allergic Response?
Research Triangle Park, NC, October 27, 2004.

14. British Society of Allergy and Clinical Immunology.
Plenary Lecture. *The Relevance of Allergen Exposure to T Cell Activation in Allergic Disease.***
 Loughborough, England, July 18-20, 2005.
15. Annual Meeting of the AAAAI.
 Symposium. *Immunological Tolerance Mechanisms in Asthma: Dose Response Effects of Environmental Allergen Exposure.***
 Miami, FL, March 3-7, 2006.
16. AAAAI/CIS Hypersensitivity and Allergic Diseases Summer School.
*Regulatory T Cells and Allergic Disease.***
 Aspen, CO, August 25-29, 2006.
17. Annual Meeting of the AAAAI.
 Course speaker. *Inhalants and Airborne Irritants and the Atopy Patch Test.***
 San Diego, CA, February 23-27, 2007.
- 18-20. Annual Meeting of the AAAAI.
 - (i) NIH/NIAID Course speaker. *Mechanisms of Tolerance to Inhalant Allergens.***
 - (ii) **John E. Salvaggio Memorial Lectureship.** *In Vitro Studies of Peptides and Allergen Variants: What Constitutes a Protective Response?***
 - (iii) Symposium. *Immune Responses and Clinical Consequences.***
 Philadelphia, PA, March 13-18, 2008.
21. Annual Meeting of the AAAAI.
 Symposium. *The Inflammatory Milieu in AD Skin: Influence on T Cells.***
 Washington DC, March 13-17, 2009.
22. Annual Meeting of the AAAAI.
 Workshop. *Clinical Applications of Tregs.***
 New Orleans, LA, February 26 – March 2, 2010.
23. Feinberg School of Medicine, Northwestern University, Chicago.
 Division of Allergy-Immunology.
 Lecture. *Regulation and Function of TSLP Receptor: Implications for Allergic Disease.*
 October 22nd, 2010.
24. Annual Meeting of the AAAAI.
Plenary Lecture. *Mechanisms of Tolerance Induction for Allergic Disease.***
 San Francisco, CA, March 18-22, 2011.
25. 13th International Paul Ehrlich Seminar.
 Lecture. *Targeting Fc Receptors as an Approach to Immunotherapy.*
 Washington, DC, Sept 14-17, 2011.
- 26-27. Annual Meeting of the AAAAI.
 - (i) Course speaker. *Targeting Allergens to Fc Receptors.***
 - (ii) Workshop. *Regulatory and Th2 Cell Contribution to Atopic Dermatitis.***
 Orlando, FL, March 2-6, 2012.

28. 2nd Allergy Drug Discovery and Development Conference.
Lecture. *Basophils as Markers of Allergic Inflammation: New Perspectives on Form and Function*.
San Diego, CA, Jan 31-Feb 1, 2013.
29. Grand Rounds, Winthrop Hospital, New York.
Lecture. *Rhinovirus and Asthma: T Cells and Beyond*.**
New York, NY. Jan 17, 2014.
30. Mid-Atlantic Directors and Staff of Scientific Cores & Southeastern Association of Shared Resources Joint Meeting.
Lecture. *Use of Mass Cytometry in Human Models of Rhinovirus Infection*.
Charlottesville, VA. June 4, 2015.
31. 10th Symposium on Specific Allergy.
Faculty Lecture. *Mechanisms of Asthma by a Systems Biology Approach*.
Rome, Italy, Nov 19-21, 2015.
32. 31st Symposium of the Collegium Internationale Allergologicum.
New Insights into T-Cell Immunity to Rhinovirus in Atopic Asthma.
Charleston, SC, USA. April 3-8, 2016.
33. NIH Workshop: Atopic Dermatitis and the Atopic March: Mechanisms and Interventions.
Lecture. *Tracing the Link Between Atopic Dermatitis and Asthma: Clues to Cellular Mechanisms*.
NIH/NIAID, Rockville, MD. Sep 6-7, 2017.
34. Excellence in Immunology Lecture Series.
Mechanisms of Rhinovirus Pathogenesis in Allergic Asthma.**
University of Texas Southwestern Medical Center, Dallas, TX. November 29, 2017.
35. Lecture. *Studying Mechanisms of Adaptive Immunity to Rhinovirus in Health and Disease in a Human Infection Model*.
Uniformed Services University of the Health Sciences, Department of Microbiology & Immunology. Bethesda, MD. March 18, 2019.
36. Lecture. *Mechanisms of the Adaptive Response to Rhinovirus in Health and Asthma in a Human Infection Model*.
Feinberg School of Medicine, Northwestern University, Chicago ILL.
Division of Allergy-Immunology. March 29, 2019.

Invited Seminars

1. Annual Meeting of the AAAAI.
Co-presenter with Euan R. Tovey, Ph.D. (University of Sydney, Australia)
Products and Devices Used in Environmental Control.**
New Orleans, LA, March 16-21, 2001.
- 2-5. 58th – 61st Annual Meetings of the AAAAI.
Co-presenter with Mark Larche, Ph.D. (Imperial College, London, UK)
An Immunologist's Perspective on Immunotherapy.**
2002-2005.

6. Annual Meeting of the AAAAI.
Co-presenter with Marsha Wills-Karp, Ph.D. (Children's Hospital Medical Ctr., Cincinnati, OH)
*T Cell Tolerance to Inhaled Allergens: A New Therapeutic Approach?***
Miami, FL, March 3-7, 2006.
7. Annual Meeting of the AAAAI.
Co-presenter with Mubeccel Akdis, Ph.D. (Swiss Institute of Allergy and Asthma Research, Davos, Switzerland)
*T Cell Tolerance to Inhaled Allergens: A New Therapeutic Approach?***
San Diego, CA, February 23-27, 2007.
8. Annual Meeting of the AAAAI.
Co-presenter with Martin Chapman, PhD (Indoor Biotechnologies, Inc.).
*Epitope Structures of Allergens: Factors Mediating Allergenicity and Clinical Significance.***
Houston, TX, February 20-24, 2015.

Invited Moderator

1. Annual Meeting of the AAAAI.
Oral Abstract Session, *Agents Responsible for Environmental Allergic Respiratory Disease.***
Denver, CO, March 7-12, 2003.
2. Annual Meeting of the AAAAI.
Workshop, *Endotoxin and Asthma: A Two-Edged Sword.***
San Antonio, TX, March 18-22, 2005.
- 3-4. Annual Meeting of the AAAAI.
 - (i) Symposium, Strategic Training in Allergy Research (ST*AR) Program.**
 - (ii) Oral Abstract Session, *Skewing of the Adaptive Immune Response to Allergens.***
Miami, FL, March 3-7, 2006.
5. Annual Meeting of the AAAAI.
Workshop, *Cutting-edge Concepts in Atopic Dermatitis.***
San Diego, CA, February 23-27, 2007.
6. Annual Meeting of the AAAAI.
Poster Session, Strategic Training in Allergy Research (ST*AR) Program.**
Philadelphia, PA, March 13-18, 2008.
- 7-8. Annual Meeting of the AAAAI.
 - (i) Course, *Molecular Programming of Allergic and Immunological Diseases by Environmental Agents.*
 - (ii) Oral Abstract Session, *Allergy and Tolerance.***
New Orleans, LA, Feb. 26-Mar. 2, 2010.
9. Annual Meeting of the AAAAI.
Workshop, *Tools and Resources for Scientists in Allergy Research.***
Orlando, FL, March 2-6, 2012.

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2003-2008 Board of Directors, University of Sheffield in America.