

## **ROBERT P. SCHLEIMER, Ph.D.**

## **CURRICULUM VITAE**

1.11.18

### **CURRENT APPOINTMENT**

2004 - Roy and Elaine Patterson Professor,  
Chief, Division of Allergy-Immunology;  
Professor of Medicine

OFFICE ADDRESS: Northwestern University Feinberg School of Medicine  
Department of Medicine/Division of Allergy-Immunology  
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Chicago, IL 60611  
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HOME ADDRESS: 100 E. Huron, #4501  
Chicago, IL 60611  
Phone #: (312) 335-1872

DATE OF BIRTH: April 8, 1952  
PLACE OF BIRTH: New York, New York

### **EDUCATION**

1970 - 1974 Univ. of California, San Diego, John Muir College, B.A. with Honors in Biology  
1972 - 1973 University of Sussex, Brighton, England, Education Abroad Program  
1974 - 1979 University of California, Davis, Ph.D. program in Pharmacology and  
Toxicology; Degree awarded February 1980  
Thesis Chairman: Dr. Eliezer Benjamini; Chairman, Graduate Group in  
Immunology; Professor, Department of Medical Microbiology  
2007 Kellogg School of Business, Northwestern University,  
Executive Business Course (Diploma)

### **RESEARCH EXPERIENCE**

1974 University of California at San Diego, Dept of Biology; Laboratory of Dr. Stanley Mills  
1974 - 1976 University of California at Davis, School of Medicine, Department of Pharmacology;  
Laboratory of Dr. Gary Henderson, and Department of Anesthesiology; Laboratory of  
Dr. John Eisele  
1974 - 1979 University of California at Davis, School of Medicine, Department of Medical  
Microbiology; Laboratory of Dr. Eliezer Benjamini  
1975 - 1976 University of California at Davis, School of Medicine, Department of  
Pharmacology, Teaching Assistant  
1978 - 1979 Sacramento Medical Center Blood Bank, Instructor  
1986 Tohoku University, Japan. Visiting Faculty  
1993 - 1994 Sabbatical, Dr. Santa Ono's Laboratory, Johns Hopkins University School of Medicine

Exhibit 1163

IPR2017-00807

ARGENTUM

## ACADEMIC APPOINTMENTS

1977	California State University at Chico, Spring Semester; Full-Time Faculty, Department of Biology
1979 - 1981	Johns Hopkins University School of Medicine, Department of Medicine/Clinical Immunology Division; Postdoctoral Fellow, Laboratory of Dr. Lawrence Lichtenstein
1981 - 1982	Johns Hopkins University School of Medicine, Department of Medicine/Clinical Immunology Division; Instructor in Medicine
1982 - 1987	Johns Hopkins University School of Medicine, Department of Medicine/Clinical Immunology Division; Assistant Professor of Medicine
1987 - 1992	Johns Hopkins University School of Medicine, Department of Medicine/Division of Clinical Immunology; Associate Professor of Medicine
1992 - 2004	Johns Hopkins University School of Medicine, Department of Medicine/Division of Clinical Immunology; Professor of Medicine
2004-	Northwestern University Feinberg School of Medicine, Department of Medicine, Professor
	The Roy and Elaine Patterson Professor of Medicine
2009-	Northwestern Memorial Hospital, Department of Medicine, appointment to Doctorate Level
2010-	Northwestern University Feinberg School of Medicine, Department of Otolaryngology-Head and Neck Surgery; Professor
2016-	Northwestern University Feinberg School of Medicine, Department of Microbiology-Immunology; Professor

## HONORS AND AWARDS

1975 - 1976	Earle C. Anthony Fellow in Pharmacology and Toxicology
1976 - 1977	Earle C. Anthony Fellow in Pharmacology and Toxicology
1977 - 1978	University of California Regent's Fellow
1978 - 1979	Earle C. Anthony Fellow in Pharmacology and Toxicology
1987	American Academy of Allergy and Immunology - Annual Meeting. President's Award (best paper) - presented to Dr. Bruce S. Bochner (postdoctoral fellow). \$5000 awarded to the laboratory
1988	American Academy of Allergy and Immunology - Annual Meeting. President's Award (best paper) - presented to Dr. Ana M. Lamas (postdoctoral fellow). \$5000 awarded to the laboratory
1993	American College of Allergy and Immunology. Clemens Von Pirquet Award - presented to Dr. Michael Vicksman (postdoctoral fellow).
1993	Fogarty International Award - presented to Dr. Cristiana Stellato (postdoctoral fellow).
1994	The Allergy 2000 International Young Investigator Award, Schering Plough International (\$10,000) - presented to Dr. Motohiro Ebisawa (postdoctoral fellow).
1995	The Allergy 2000 International Young Investigator Award, Schering Plough International (\$3,000) - presented to Dr. Cristiana Stellato (postdoctoral fellow).
1995	The Sheldon C. Siegel Lectureship, AAAAI
1997	American Academy of Allergy, Asthma and Immunology - Annual Meeting Cytokine abstract award for Fellows-in-Training (best abstract) - presented to Dr. Cristiana Stellato (postdoctoral fellow).
1998	The Richard S. Farr Memorial Lectureship, AAAAI
2002	Recognition as one of the most highly cited researchers in the last two decades. Institute of Scientific Information
2005	Northwestern University Graduate Faculty member
2006	The Joseph A. Kwasman Memorial Lecture, University of Rochester
2008	The Jack Pepys Memorial Lecture, British Society of Allergy Clinical Immunology, 2008
2008	The Giles F. Filley Lecture, Aspen Lung Meeting
2008	Featured poster, AAAAI Annual Meeting

2008	American College of Allergy, Asthma & Immunology, Clemens Von Pirquet Award (best paper) – presented to Dr. Seong Cho (postdoctoral fellow) \$10,000 awarded to the laboratory
2011	The Elliot Middleton Memorial Lectureship, AAAAI Annual Meeting
2012	Johns Hopkins University Society of Scholars
2014	The Frederick E. Hargreave Memorial Lecture, McMaster Univ, Hamilton
2014	10 <sup>th</sup> Annual Respiratory Disease Young Investigators Forum, Washington DC, Award for Best Clinical Research Presentation by Dr. Whitney Stevens (postdoctoral fellow) in Schleimer Lab
2015	AAAAI Intersect-Section Fellow-in-Training Abstract Award – presented to Dr. Whitney Stevens (postdoctoral fellow) in Schleimer Lab
2015	The Tripartite Prize, Northwestern University (cash award)
2015	DOM Accomplished Scientist Speaker Lecture, National Jewish Health, Denver CO
2015	American College of Allergy, Asthma & Immunology, First Place Clemens Von Pirquet Award (outstanding abstract) – presented to Dr. Whitney Stevens (postdoctoral fellow)

## MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Sigma Xi  
 American Association of Immunologists  
 New York Academy of Sciences  
 American Society of Hematology  
 American Association for the Advancement of Science  
 Fellow, American Academy of Allergy, Asthma and Immunology  
 Fellow, Illinois Society of Asthma, Allergy and Immunology  
 International Eosinophil Society

## EDITORIAL BOARDS

1983 - 1987	Associate Editor: Journal of Immunology
1990 – 2000	Editorial Board – Year Book of Pharmacology, CRC Press
1990 - 1996	Editorial Board - Journal of Allergy and Clinical Immunology
1992 - 1995	Associate Editor: Journal of Immunology
1993 - 1998	Senior Associate Editor: Journal of Allergy and Clinical Immunology
2000 - 2001	Editorial Board - Respiratory Research
2007 - 2011	Member, Editorial Board of Allergy
2007 - 2016	American Journal of Respiratory Cell and Molecular Biology
2008 - 2013	Associate Editor - Clinical and Experimental Allergy
2008 - 2013	Member, Editorial Board of Proceedings of the American Thoracic Society
2008 - 2013	Editorial Board - International Journal of Interferon, Cytokine and Mediator Research
2008 - 2017	Journal of Allergy
2011 -	Editorial Board - Allergology International

## ACADEMIC ADVISORY BOARDS

2001 - 2006	Editor, Disease Markers
2001 - 2013	Scientific Outside Advisory Board for the Center for Childhood Asthma in Urban Environment, Johns Hopkins University
2006 - 2011	Duke University SCOR Advisory Board
2006 - 2010	Member, U. of Louisville Allergy & Immunology External Adv. Committee
2006 - 2008	University Wisconsin Asthma SCOR Advisory Board
2006 - 2008	Johns Hopkins University J32 Training Grant External Advisory Committee

2007 - 2008                      National Jewish PPG Advisory Board

## ACTIVITIES AT JOHNS HOPKINS UNIVERSITY

1982 - 1990	Clinical Immunology Division Safety Officer
1984 - 1994	Clinical Immunology Division Journal Review, Co-Director
1986 - 2002	Johns Hopkins Immunology Council - Henry G. Kunkel Lecture Committee
1987 - 1989	Clinical Immunology Division Research Conferences, Director
1989 - 1991	Johns Hopkins Immunology Council Seminar Committee
1991	Department of Medicine Annual Retreat Committee
1991	Johns Hopkins Asthma and Allergy Center Annual Symposium, Director
1991	Clinical Immunology Division Recruitment Committee, Chairman
1992	Chairman-Elect, Johns Hopkins Immunology Council
1993 - 1994	Chairman, Johns Hopkins Immunology Council
1993 - 1995	Department of Medicine Advisory Committee
1995 - 2002	Counselor, Johns Hopkins Immunology Council
1997	Co-chairman, Molecular Medicine Retreat
1997	Graduate Student Advisor, Molecular Medicine Graduate Program
1998 - 2004	Advisory Board, Johns Hopkins Center for the Asthmatic Child in the Urban Environment.
1998	Advisory Board, Cell and Molecular Medicine
1998	Co-Chairman, Cell and Molecular Medicine
1998 - 1999	Organizing Committee, CMM Committees
1999	Chairman, Johns Hopkins University, Dept. of Medicine Development - An Exploration of Who We Are
1999	Member, Pulmonary Division Chief Search Committee
2006 - 2011	Member, External Advisory Committee for the T-32 Training Program Renewal in Pulmonary and Critical Care Medicine at Johns Hopkins
2008 - 2013	Member, External Advisory Board for the Center for Childhood Asthma in the Urban Environment, Johns Hopkins School of Public Health

## ACTIVITIES AT NORTHWESTERN

2004 - 2005	Hematology-Oncology Chief Search Committee
2005 -2010	Member, NUFSM Appointment, Promotion and Tenure Committee
2005	Member, NUFSM Pulmonary & Critical Care Medicine, Search Committee for Sleep Medicine Research
2006	Member, Microbiology-Immunology Chair Search Committee
2006	NMH Resident Research Symposium & Presentations (participating Judge for presentations)
2006 - 2008	Member, NU Dept of Microbiology-Immunology, Faculty Search Committee
2006 -	Member, External Advisory Board for the Program Project Grant in Acute Lung Injury, NUFSM Pulmonary & Critical Care Medicine
2006 - 2007	Member, NUFSM Deans Research Council
2007 - 2008	Member & Chair, NUFSM Faculty Task Force
2007 - 2009	Member, NU Patent Policy Committee
2007 - 2013	Member, NUFSM Senior Faculty Research Advisory Committee
2007 - 2010	Member, NUFSM One Northwestern Task Force – Promotion and Tenure Subgroup
2007 - 2009	Member, NUFSM Immunology Planning Committee
2008 - 2009	Member & Chair, NUFSM Nephrology Chief Search Committee
2008	Member & Reviewer, NMH Priority Programs Collaborative Development Initiative Committee

2008	Member, NUFMS Immunology/Infectious Disease/Transplantation Strategy Committee
2008 -	Member, FOCIS Advisory Board of the Center of Excellence in Clinical Immunology
2008	Member, Pathology Faculty Recruitment Committee
2009	Member, NUFMS Office of Research ICR Initiative Workgroup
2010	Member, NUFMS Rheumatology Basic Science Research Faculty Search Committee
2010 -	ENT Appointment, Promotions and Tenure Committee
2010 - 2012	Member, NUFMS Basic Sciences Task Force
2011	Member, NU Office of Research Life Sciences Advisory Board
2011 -	Member, NUFMS, Department of Medicine Research Council
2012 - 2013	Member, Pharmacology Department Chair Search Committee
2012 - 2014	Member, Skin Disease Research Program
2013 - 2014	Galter Library Director Search Committee

## ACTIVITIES ASSOCIATED WITH THE NATIONAL INSTITUTES OF HEALTH

### Committees

1992 - 1996	AdHoc Reviewer, Immunological Sciences and Allergy and Immunology Study Sections
September, 1995	National Advisory Council on Allergy and Infectious Diseases. Session on Asthma and Inflammation Bethesda, Maryland
1996 - 2001	Lung Biology and Pathology Study Section
March, 1996	NHLBI, Lung SCOR Parent Committee Study Section Bethesda, Maryland
1996	Cellular and Molecular Mechanisms of Asthma Study Section
June, 1997	NHLBI Special Emphasis Panel Chevy Chase, Maryland
September, 1999	NHLBI - Working Group on Novel Therapeutic Approaches for the Treatment and Prevention of Asthma, Bethesda, MD
February, 2003	Center for Scientific Review Special Emphasis Panel Bethesda, MD
April 9-10, 2003	NHLBI - Future Research Directions in Asthma Working Group “Mechanisms of Airway Inflammation/Injury/Repair Remodeling” “Vascular Basis of Mechanisms in Asthma” Division of Lung Diseases, Rockville, MD
March 30, 2004	NIH – Center for Scientific Review Special Emphasis Panel Washington, DC
November 2005	NIH – Center for Scientific Review Special Emphasis Panel Grants Review Meeting (teleconference meeting) Washington, DC
November 2005	NHLBI Strategic Plan DLD Executive Planning Committee
January 2006	Washington, DC
February 2006	NHLBI-Host Factors SCCOR Meeting, Baltimore, MD
March 2006	NIH/NIEHS Ad-Hoc Reviewer for the Laboratory of Signal Transduction and the Laboratory of Molecular Toxicology Meeting, Durham, NC
May 2006	Consortium for Food Allergy Research (External Reviewer) NIAID, NIH, DHHS Bethesda, MD
June 2006	NHLBI Strategic Plan DLD Theme 2: Interactive Approaches to Pathogenetic Research Mtg, Bethesda, MD

July 2006	NIH-Center for Scientific Review -LCMI Special Emphasis Panel Grants Review Mtg (teleconference mtg) Washington DC
October 2006	NHLBI Level 2- Strategic Plan Mtg Bethesda, MD
March 2007	NIH/NIEHS ONES Review Meeting Durham, NC
December 2007	NIH-Board of Scientific Counselors Review Meeting Bethesda, MD
October 2007-Present	NIH-Center for Scientific Review/LCMI Study Section Grants Review Mtg, Regular Member
September 2008	NHLBI Working Group on Basic & Clinical Immunological Aspects that Characterize Asthma, COPD and IPF Patients, Chair, Bethesda, MD
October 2008-Present	NIH-Center for Scientific Review/LCMI Study Section Grants Review Mtg, Chair, Study Section (two year term)
October 2008	NIH-Center for Scientific Review/LCMI Study Section Grants Review Mtg, Seattle, WA
January 2009	NIH-New Study Section Chair Orientation Mtg Hilton Chicago Ohare Hotel
February 2009	NIH-Center for Scientific Review/LCMI Study Section Grants Review Mtg, Baltimore, MD
May 2009-Present	NIAID/NIH-Asthma Outcomes Workshop, Biomarkers Subcommittee member, (teleconference mtgs)
June 2009	NIH-Center for Scientific Review/LCMI Study Section Grants Review Mtg, Baltimore, MD
October 2009	NIH-Center for Scientific Review/LCMI Study Section Grants Review Mtg, San Diego, CA
February 2010	NIH-Center for Scientific Review/LCMI Study Section Grants Review Mtg, Baltimore, MD
March 2010	NIH/NHLBI Asthma Outcomes Workshop Baltimore, MD
June 2010	NIH-Center for Scientific Review/LCMI Study Section Grants Review Mtg, Baltimore, MD
October 2010	NIH-Center for Scientific Review/LCMI Study Section Grants Review Mtg, San Francisco, CA
March 2011	NIH-Special Emphasis Panel/Scientific Review Group Mtg Baltimore, MD
June 2011	NIH-Center for Scientific Review/LCMI Study Section Grants Review Mtg, Baltimore, MD
October, 2014	Asthma Center Program Project Investigator's Meeting
October, 2015 - Present	ADRN2 External Scientific Advisory Committee

### **Lectures at NIH Programs**

March, 1993	National Institutes of Health, Lecture Invited by: Dr. Goldstein Bethesda, MD
May, 1998	Occupational Asthma: In and Out of the Workplace NIOSH Conference Sponsored by the West Virginia University School of Medicine Office of Continuing Medical Education

	"Integration of inflammatory response components (cells, chemokines, mediators, adhesion molecules)". Morgantown, WV
April, 1999	NIH Conference "Biomarkers and Surrogate Endpoints: Advancing Clinical Research and Applications" "Markers of Inflammation for Asthma" Bethesda, MD
March, 2001	Breathless in Bethesda: the Biology of Asthma Organizer: Dr. Deborah Beebe "Mechanisms of allergic pathogenesis" Bethesda, MD
October, 2014	AADCRC Asthma Center Director's meeting
October, 2015	AADCRC Asthma Center Director's meeting
October, 2016	AADCRC Asthma Center Director's meeting

### **FDA-RELATED ACTIVITIES**

Dr. Schleimer has consulted with dozens of companies, assisting with design and implementation of FDA registered clinical trials, including phase I, II, III and IV. Other specific FDA related activities are listed briefly below.

#### **Xolair Mock FDA advisory panel 2001.**

Served on a mock advisory board challenged with reviewing the submission package for approval of Xolair for asthma and allergic rhinitis. The panel reviewed the preparation materials as well as the formal presentation itself and provided feedback to Genentech and Novartis.

**Intersect ENT Pre-IND meetings with FDA, 2012.** Meetings were held with FDA in January 2012 and October 2012, leading to approval of developmental program. Assisted with preparation of FDA filing documents and reviewed presentations for both FDA meetings. Participated in both meetings as an outside expert. Assisted with preparation of documents responding to FDA questions and opinions.

**Allakos clinical trial protocol development, 2015- present.** Assisted Allakos (which Dr. Schleimer co-founded) in the development of FDA-registered phase I and phase II trials that are presently ongoing.

**GSK Mepolizumab mock FDA panel, 2015.** Served on a mock advisory board challenged with reviewing the submission package for approval of Mepolizumab for asthma. The panel reviewed the preparation materials as well as the formal presentation itself and provided feedback to GSK.

### **CURRENT SUPPORT**

#### **NIH Grants**

5R37 HL068546

08/01/2010 - 07/31/2019

NIH/NHLBI; Schleimer (PI)

Glucocorticoid Action in Inflammatory Disease. To assess the mechanisms of glucocorticoid actions in allergic disease and experimental antigen challenges.

T32A1083216

08/15/2010 – 07/31/2020

NIH/NIAID; Schleimer (Program Director)

Northwestern University Allergy Immunology Research Program (NUAIR)

The overall aim of the NUAIR program is to train postdoctoral scientists in translational research, here defined as research of disease mechanisms that includes investigations in human subjects or human samples.

U19AI106683

08/05/2013 – 07/31/2018

NIH/NIAID; Schleimer (PI)

Chronic Rhinosinusitis Integrative Studies Program (CRISP)

The Chronic Rhinosinusitis Integrative Studies Program (CRISP) unifies and integrates three world-class research groups to understand the epidemiology, genetics and pathology of chronic rhinosinusitis. CRISP proposes highly interactive studies that leverage the population cohorts, expertise and resources of groups at Northwestern University, the University of Chicago and the Geisinger Health Systems in order to advance our understanding of chronic rhinosinusitis and point the way toward new therapeutic strategies.

U19AI106683

08/15/2015 – 7/31/2018

NIH/NIAID; Schleimer (PI)

CRISP Supplement: The Unified Barrier Hypothesis

Exciting new data suggest that Chronic Rhinosinusitis is characterized by defects in the epithelial barrier that are associated with changes in hormonal control systems. The work in this supplement will test this hypothesis using the sample set that is being generated with the CRISP program project grant.

Supplement PI: Berdnikovs

R01AI104733

02/15/2014 – 01/31/2019

NIH/NIAID; Kato (PI)

Role of Thymic Stromal Lymphopoietin in Chronic Rhinosinusitis

The studies in this grant will test our hypothesis that the over production of TSLP and its truncated products contribute to the initiation and activation of polypoid chronic rhinosinusitis.

Role: Co-I

R01AI114730

09/03/2015 – 02/28/2018

NIH/NIAID; Paulson (PI)

Influenza virus receptors on human airway epithelial cells

The goal of the project is to provide human epithelial cells for profiling glycans that serve as receptors for influenza hemagglutinins, and study human influenza receptor binding to tissue sections and cultured epithelial cells from the human airway.

Role: Site PI



## OTHER CURRENT ACADEMIC ACTIVITIES

2006 - 2008	Member, U of Louisville Allergy & Immunology External Adv Committee
2008 - 2012	Member, AAAAI STAR Program Task Force
2008 - 2013	Member, AAAAI Annual Meeting Program Committee
2011 -	Member, Food Allergy Research and Education Advisory Board
2014 -	Member, AAI Clinical Immunology Committee

## COURSES AT JOHNS HOPKINS UNIVERSITY

Occupational Medicine Residents Pulmonary Course, School of Hygiene and Public Health  
(Dr. Mel Tockman)

Graduate Immunology: The Immune Response, School of Hygiene and Public Health (Dr. Noel Rose)

Medical School Immunology Course, Johns Hopkins University Medical School (Dr. Hyun Shin)

Inflammation, Injury and Repair: Course Director - Dr. Arthur Dannenburg, School of Hygiene and Public Health

Johns Hopkins Asthma and Allergy Center "Frontiers" course (Dr. Peter Creticos)

Principles of Immunology, (offered at the School of Continuing Studies)

Graduate Immunology Course. School of Hygiene and Public Health (Dr. Alan Scott)

### Special lectures given at The Johns Hopkins University

2nd Annual Johns Hopkins Asthma Center Symposium (1991)

Conjoint Clinic (Guest of Dr. Paul Lietman)

Combined Research Conference, Johns Hopkins University, (Pulmonary/Medicine - 5 occasions)

Gerontology group - special Fellow's lecture (Guest of Dr. Jesse Roth)

Hematology (Guest of Dr. Peter Agre)

Johns Hopkins Immunology Council (3 occasions)

Clinical Immunology Research Conference (1 or 2 lectures/year)

Clinical Immunology Fellows Course (1 or 2 lectures/year)

Clinical Immunology Journal Club (1 each month)

Clinical Immunology Molecular Studies Journal Club (1 or 2 discussions/year)

Topics in Clinical Medicine (Guest of Dr. Hellmann)

Preceptorship Programs (5 or more lectures/year)

Gerontology Research Center, Research Seminar

Johns Hopkins Allergy Continuing Education Conference

Johns Hopkins Alumni College, 1 week lecture series at St. Mary's College (5 lectures)

Johns Hopkins Pediatric Allergy/Immunology Conference

Francis Scott Key Medical Center Grand Rounds

Dept of Pharmacology, "Chemokines and Allergic Diseases" (January, 1999)

### Invited Lectures/Meetings (Domestic)

February, 1992 Pfizer Pharmaceutical Company  
New Groton, Connecticut

February, 1992 Tanabe Pharmaceutical Company  
San Diego, California

March, 1992 Joint American - European Plenary Symposium at the American  
Academy of Allergy and Immunology National Meeting  
Orlando, Florida

April, 1992 Eosinophil Symposium - (Invited speaker) Federation of American  
Societies for Experimental Biology Annual Meeting  
Anaheim, California

May, 1992 Biomedical Res. Community of Baltimore. Clinical Research Societies  
Baltimore, Maryland

May, 1992	American Federation of Clinical Research - Special symposium Baltimore, Maryland
June, 1992	Virginia Allergy Society, 12th Annual Scientific Meeting Virginia Beach, Virginia
June, 1992	American Association of Immunologists Advanced Immunology Course Colorado Springs, Colorado
July, 1992	Aspen Allergy Conference Aspen, Colorado
October, 1992	ICI Delaware
October, 1992	Monsanto (Lecture) St. Louis, Missouri
January, 1993	SmithKline Beecham Philadelphia, Pennsylvania
March, 1993	National Institutes of Health (Lecture -Invited by Dr. Goldstein) Bethesda, Maryland
March, 1993	American Academy of Allergy and Immunology Chicago, Illinois
May, 1993	Khepri Pharmaceuticals, Inc. San Francisco, California
June, 1993	AAI Advanced Immunology Course Colorado Springs, Colorado
October, 1993	Hahnemann University Immunology Retreat Philadelphia, Pennsylvania
January, 1994	Frontiers Course in Research and Clinical Management Johns Hopkins Asthma and Allergy Center Baltimore, Maryland
March, 1994	American Academy of Allergy and Immunology Anaheim, California
April, 1994	Federation of American Societies for Experimental Biology, Annual Meeting, San Francisco, California
June, 1994	Glaxo, Visiting Professor McMaster University Hamilton, Ontario, Canada
July, 1994	Am. Association of Immunology Advanced Course and Joint U.S.-Japan Cooperative meeting Bozeman, Montana
January, 1995	Bowman Gray School of Medicine. Guest of Floyd Chilton, Ph.D. Winston-Salem, North Carolina
February, 1995	American Academy of Allergy and Immunology New York, New York
April, 1995	Federation of American Societies for Experimental Biology, Annual Meeting Atlanta, Georgia
May, 1995	Scleroderma meeting Washington, DC
May, 1995	SmithKline Beecham Philadelphia, Pennsylvania
May, 1995	American Thoracic Society International Conference Seattle, Washington
July, 1995	American Academy of Allergy and Immunology/American Thoracic Society Joint Conference. Asthma '95: Theory to Treatment Chicago, Illinois
September, 1995	National Advisory Council on Allergy and Infectious Diseases. Session on Asthma and Inflammation Bethesda, Maryland
October, 1995	NIH study section

December, 1995	Bethesda, Maryland American Academy of Asthma, Allergy and Immunology "Cytokines in Inflammation and Disease"
March, 1996	Bethesda, Maryland American Academy of Allergy, Asthma and Immunology, Annual Meeting Ad hoc committee to evaluate the annual meeting Speaker: "Epithelial derived mediators" Speaker: "Role of chemokines in allergic inflammation" Co-moderate: "Role of cytokines in regulation of allergic inflammation"
March, 1996	New Orleans, Louisiana Strategic Implications International Asthma: 1996 knowledge base on control and treatment
April, 1996	New Orleans, Louisiana Pfizer Inc. "Eosinophils, chemokines and airway inflammation"
April, 1996	Groton, Connecticut Scleroderma meeting
April, 1996	Chicago, Illinois Federation of American Societies for Experimental Biology, Annual Meeting "New approaches to the therapy of asthma - Cytokine and chemokine Modulators"
July, 1996	Washington, D.C. Glaxo Wellcome Preceptorship Johns Hopkins Asthma and Allergy Center "Pathogenesis of asthma: Cells/cytokines/mediators"
July, 1996	Baltimore, Maryland Meeting entitled "Allergic and non-allergic rhinitis - Clinical aspects" Sponsored by: Astra Draco (Drs. Durham, Mygind, and Naclerio) "Future therapies for allergic diseases of the airways"
September, 1996	Chicago, Illinois Bluegrass Society of Allergists Sponsored by: Astra Draco (Dr. Humilidad Anzures) "Mechanism of glucocorticoids in asthma"
October, 1996	Lexington, Kentucky Seventh Annual Scientific Symposium "The Genetics of Asthma and Atopic Disease"
October, 1996	Sponsored by: Asthma and Allergy Foundation of America Clinical Cutaneous Allergy and Immunology Sponsored by: American Academy of Allergy, Asthma and Immunology "Pharmacology in the Treatment of Skin Disease"
October, 1996	New York, New York 8th International Conference "Inflammation: Mechanisms and Therapeutics"
November, 1996	Sponsored by: SmithKline Beecham Pharmaceuticals Hershey, Pennsylvania Seminar "Inhaled Steroids for the Treatment of Asthma"
February, 1997	Sponsor: Searle (Walter Smith) Skokie, Illinois 19th Annual National Jewish Update on Allergy and Clinical Immunology "Mechanisms of steroid action in asthma" "Mechanisms of allergic cell recruitment"
February, 1997	Keystone, Colorado American Academy of Allergy, Asthma and Immunology, Annual

Meeting  
 "Role of Chemokines in Allergic Inflammation"  
 Minisymposium entitled "Corticosteroids and Asthma"  
 Symposium  
 "Corticosteroids - Modes of Action in Asthma"  
 Co-Chair  
 "Adhesion Molecules and the Genesis of Allergic Inflammation"  
 Co-Chair  
 "Corticosteroids and Asthma"  
 Minisymposium  
 March, 1997 The Theophylline Forum in Napa Valley, 97  
 "The role of adhesion molecules in allergic inflammation and their  
 suitability as targets of antiallergic therapy"  
 Sponsored by: Mitsubishi chemical Corp and Nikken Chemicals Co.,  
 Ltd., Silverado Country Club and Resort, Napa Valley, California  
 March, 1997 Grand Rounds - St. Agnes Hospital  
 Pediatric grand rounds - "Cytokines in Allergic Diseases"  
 Organized by: Dr. Michael Burke  
 March, 1997 Millenium Pharmaceuticals  
 "Cell recruitment, Epithelium and Glucocorticosteroids"  
 Boston, Massachusetts  
 May, 1997 "Cellular responses in asthma and their modulation by glucocorticoids"  
 Fourth Annual Allergy Fellows Symposium  
 American Thoracic Society  
 San Francisco, California  
 June, 1997 Cottle International Rhinology Centennial and XVIth ISIAN meeting  
 "Mechanisms of allergic cell recruitment"  
 Philadelphia, Pennsylvania  
 July, 1997 SmithKline Beecham  
 "In vitro evaluation of glucocorticosteroid potencies"  
 "Studies of chemokine biology"  
 King of Prussia, PA  
 August, 1997 1997 Society for Leukocyte Biology National Meeting  
 Hyatt Regency  
 Baltimore, MD  
 October, 1997 Zeneca Pharmaceuticals  
 Asthma Symposium  
 "Mechanisms of eosinophilia in asthma"  
 Wilmington, DE  
 October, 1997 Health Dimensions  
 Allergy/Immunology and Neuroimmunology Fellows Symposium  
 "Chemokines and their receptors in allergic inflammation"  
 Phoenix, AZ  
 October, 1997 Pfizer Pharmaceuticals  
 Providence, RI  
 October, 1997 The Allergy, Asthma and Immunology Society of  
 Greater New York Annual Teaching Day  
 "Nouvelle therapies of asthma"  
 New York, NY  
 January, 1998 Medical Association  
 Pharmacology of ICS  
 Limon, OH  
 February, 1998 Mechanism of Glucocorticoid in Asthma  
 Sponsored by Glaxo Wellcome  
 Raleigh, NC  
 March, 1998 American Academy of Asthma, Allergy and Immunology, Annual  
 Meeting

	<p>"Studies on the role of chemokines in allergic disease"</p> <p>Postgraduate Plenary Program</p> <p>"Pharmacology of inhaled glucocorticoids"</p> <p>RSLAAIS Symposium</p> <p>"Mechanisms of glucocorticoid actions"</p> <p>Other presentations:</p> <p>"Comparative studies of eosinophil active C-C chemokines"</p> <p>"The epithelium as a target for anti-inflammatory therapy"</p>
March, 1998	<p>Washington, DC</p> <p>1998 National Immunology Meeting</p> <p>Innovative Strategies for Immune Modulation of Host Responses</p> <p>"The role of chemokines in allergic diseases"</p>
April, 1998	<p>Bodega Bay, CA</p> <p>Cytokines and Chemokines in Pulmonary Disease</p> <p>Sponsored by the Inflammation Research Association and the Pulmonary Research Group at the New York Academy of Sciences</p> <p>"Overview of chemokines in the lung"</p>
April, 1998	<p>New York, NY</p> <p>Fifth Annual Allergy Fellows Symposium</p> <p>Sponsored by GlaxoWellcome</p> <p>"Mechanisms of glucocorticosteroid regulation of inflammation"</p>
June, 1998	<p>Chicago, IL</p> <p>Second Annual Yale University Asthma SCOR Symposium</p> <p>Sponsored by Pulmonary and Critical Care Medicine (Jack Elias, M.D.)</p> <p>"Regulation of Airway Responses by Endogenous GC"</p>
November, 1998	<p>New Haven Lawn Club</p> <p>New Haven, CT</p> <p>9th International Conference - Inflammatory Processes: Molecular</p> <p>"Mechanisms and Therapeutic Opportunities"</p> <p>Sponsored by IRA</p> <p>"The Role of Chemokines in Allergic Diseases of the Airways"</p>
January, 1999	<p>Hershey, PA</p> <p>The Wistar Institute</p> <p>"Chemokines and Allergic Diseases"</p> <p>Host: Hildegund Ertl, M.D.</p>
February, 1999	<p>Philadelphia, PA</p> <p>American Academy of Asthma, Allergy and Immunology, Annual Meeting</p> <p>"Asthma therapy: Present and future"</p> <p>"Comparative anti-inflammatory effects of currently available therapies"</p>
April, 1999	<p>Orlando, FL</p> <p>Federation of American Societies for Experimental Biology, Annual Meeting</p>
June, 1999	<p>Washington, DC</p> <p>1999 New Jersey Thoracic Society - Pulmonary Research Group</p> <p>"Molecular and Cellular Mechanisms of Glucocorticoid Action"</p> <p>Sponsored by: ATS and NJTS Pulmonary Research Group</p>
July, 1999	<p>New Brunswick, NJ</p> <p>Aspen Allergy Meeting</p> <p>"Chemokines and Allergic Diseases"</p>
September, 1999	<p>Aspen, CO</p> <p>Schering Plough</p>
September, 1999	<p>New Jersey</p> <p>Leukocyte Pharmaceutical Company</p>
October, 1999	<p>Boston, MA</p> <p>Philadelphia Allergy Society</p>

October, 1999	<p>“Mechanisms of Action of Topical Steroids”  Philadelphia, PA  University of Pennsylvania, Allergy Division  Chemokines and Allergic Disease</p>
December, 1999	<p>Philadelphia, PA  Cytokines in Asthma meeting  “Newly recognized glucocorticoids”  Sponsored by: Immunex  Coral Gables, FL</p>
January, 2000	<p>I&amp;R Seminar Series  “Chemokines and allergic diseases”  Sponsored by: Merck  New Jersey</p>
January, 2000	<p>Systemic aspects of allergic inflammatory disease  Sponsored by: Schering-Plough  “HPA axis and allergic inflammation”  Orlando, FL</p>
March, 2000	<p>American Academy of Asthma, Allergy and Immunology, Annual Meeting  “Molecular mechanisms and cellular targets”  “A new paradigm: Is there more to asthma than inflammation”  San Diego, CA</p>
March, 2000	<p>Neurocrine Biosciences, Inc.  CCR-3 Antagonist Project  San Diego, CA</p>
April, 2000	<p>Pfizer  Groton, CT</p>
June, 2000	<p>Schering-Plough and Bestmed  Desloratadine National Curriculum Council  New York, NY</p>
July, 2000	<p>GlaxoWellcome, Inc  Respiratory Speakers Alliance: Advancements in Asthma Controller Therapy  Carlsbad, CA</p>
July, 2000	<p>Asthma Ambassadors Communication Workshop  Sponsored by: GlaxoWellcome  Baltimore, MD</p>
September, 2000	<p>2000 National Respiratory Consultants meeting  Sponsored by: Merck and Co., Inc.  Aventura, FL</p>
September, 2000	<p>Respiratory Speakers Alliance: Advancements in Asthma Controller Therapy. Sponsored by: GlaxoWellcome  Amelia Island, FL</p>
November, 2000	<p>American College of Allergy, Asthma and Immunology  Sponsored by: Synergy Communications  “Molecular mechanisms and cellular targets”  Seattle, WA</p>
November, 2000	<p>Respiratory Leadership Forum  Sponsored by: Schering-Plough Respiratory  “Mechanisms of action and safety aspects”  Kenilworth, NJ</p>
November, 2000	<p>Asthma: An Update on Medical Management  Sponsored by: Health Science Ctr for Continuing Medical Education  “Use of steroids in asthma”.  New York, NY</p>
December, 2000	<p>Center for Childhood Asthma in the Urban Environment  “Airways epithelial cells and allergic inflammation”</p>

	School of Hygiene and Public Health Baltimore, MD
December, 2000	University of Alabama at Birmingham Department of Physiology and Biophysics “Airway epithelium, chemokines and asthma” Birmingham, AL
January, 2001	Schering-Plough Research Institute Kenilworth, NJ
February, 2001	Xolair: FDA Pulmonary-Allergy Drugs Advisory Committee Meeting Sponsored by: Genentech and Novartis San Francisco, CA
March, 2001	Advair Academic Advisory Board Sponsored by: GlaxoSmithKline Research Triangle Park, NC
March, 2001	Federation of American Societies for Experimental Biology, Annual Meeting. “Mechanisms of action of GC in inflammatory disease” Orlando, FL
June, 2001	American Society for Pharmacology and Experimental Therapeutics “Mechanisms of action of GC in inflammatory disease” Orlando, FL
July, 2001	World Asthma Meeting “Newly recognized glucocorticoid targets” Chicago, IL
July, 2001	Pfizer Visiting Professor University of Texas Medical Branch at Galveston “Mechanisms of allergic inflammation” Grand Rounds University of Texas Medical Branch at Galveston “Inhaled steroids and asthma” Galveston, Texas
August, 2001	Respiratory Speakers Summits Sponsored by: GlaxoSmithKline Hot Springs, VA and Vancouver, Canada
September, 2001	Respiratory Speakers Summit Sponsored by: GlaxoSmithKline Newport Beach, CA
October, 2001	Visiting Pulmonary Scholar Program Duke University West Campus Sponsored by: CIIT Centers for Health Research; Duke University (Div of Pulmonary and Critical Care Medicine); National Inst. of Environmental Health Sciences; NC State Univ. Veterinary School, Sepracor, Inc.; U.S. Environmental Protection Agency; and the Univ. of NC at Chapel Hill. “Regulation of allergic inflammation of the airways by cytokines and glucocorticoids” Durham, NC
October, 2001	Respiratory Speakers Summit Sponsored by: GlaxoSmithKline “Asthma pathophysiology and the scientific rationale for the use of inhaled corticosteroids with long-acting beta2 agonists in the management of asthma” Hot Springs, VA
October, 2001	Scientific Outside Advisory Board Meeting For the Center for Childhood Asthma in the Urban Environment. Invited by: Peyton Eggleston Baltimore, MD
November, 2001	Asthma Conference – Pulmonary and Critical Care Medicine, and

Allergy and Immunology  
 Washington University School of Medicine  
 Invited by: Mario Castro, M.D.  
 “Regulation of allergic airway inflammation”  
 Pulmonary Grand Rounds  
 “Inhaled steroids in asthma”  
 St. Louis, MO

January, 2002  
 Beta-agonists: New Insights into Biology  
 Content development meeting  
 Sponsored by: GlaxoSmithKline  
 Dallas, TX

February, 2002  
 GlaxoSmithKline COPD Speakers Alliance  
 Sponsored by: GlaxoSmithKline  
 “Scientific and clinical rationale”  
 Dana Point, CA

March, 2002  
 American Academy of Asthma, Allergy and Immunology, Annual  
 Meeting Seminar: “New insights into GC actions”  
 Poster session: Cytokines and chemokines.  
 Postgraduate Plenary symposium: “The eosinophil controversy in  
 allergy”  
 Dinner lecture at the Waldorf Astoria: “Interactions between  
 glucocorticoids and long acting beta agonists”  
 New York, NY

April, 2002  
 Congress on Beta-Agonists: New Insights into Biology  
 Sponsored by: GlaxoSmithKline  
 Plenary session: “Interactions with other signaling mechanisms”  
 Mandarin Oriental Miami  
 Miami, FL

April, 2002  
 Federation of American Societies for Experimental Biology, Annual  
 Meeting Chair: “Asthma mechanisms”  
 New Orleans, LA

June, 2002  
 AAI Introductory Course in Immunology  
 Tufts University  
 “Allergy and mast cell activation”  
 Medford, MA

June, 2002  
 GlaxoSmithKline Allergy Speakers Summit (PEDS)  
 The 2002 Allergy Speakers Summit  
 Sponsored by: GlaxoSmithKline  
 “Asthma pathophysiology and the scientific rationale for the use of  
 inhaled corticosteroids (ICS) and long-acting  $\beta$ 2-agonists (LABA)”  
 San Francisco, CA

July, 2002  
 Asthma Academic Specialist Advisory Board  
 Sponsored by: GlaxoSmithKline  
 Denver, CO

November, 2002  
 Wyman Park Medical Society Meeting  
 “Pharmacology of glucocorticoids and beta agonists in asthma”  
 Wyman Park Medical Center

November, 2002  
 COPD Consultancy Meeting  
 Sponsored by: AstraZeneca  
 San Francisco, CA

December, 2002  
 Ciclesonide Preclinical Advisory Board Meeting  
 Sponsored by: Aventis  
 New York

December, 2002  
 Center for Childhood Asthma in the Urban Environment  
 Scientific outside advisory board meeting  
 Invited by: Peyton Eggleston  
 Baltimore, MD



January, 2003	Inhaled Corticosteroids in the Treatment of COPD Planning Meeting Sponsored by: Healthmatters Communications, LLC New York
February, 2003	Management of Severe Refractory Asthma: The Role of Anti-TNF $\alpha$ Sponsored by: Centocor Miami, FL
February, 2003	Core Asthma Group Advisory Board Sponsored by: Aventis Las Vegas, NV
March, 2003	American Academy of Asthma, Allergy and Immunology National Institute of Allergy and Infectious Diseases (NIAID) Focus Group Meeting NIH/NIAID Symposium: Roles of epithelium in innate immunity, adaptive immunity and inflammation. Oral abstract session: Airway epithelial cells express multiple members of the B7 family. Dinner symposium: Chair: Evolving concepts in the treatment of asthma: Key insights into current and future therapies. Dinner symposium: IC Pharmacology: The complexities and the reality. Sponsored by: Aventis Oral abstract session: Detection and quantitation of C16 and C18 fatty acid acyl conjugates of triamcinolone acetonide (TAA) in airway epithelial cells using gas chromatography-mass spectrometry. Denver, CO
April, 2003	Elkton Physicians Group “Mechanisms of Asthma and Therapeutics” Elkton, MD
May, 2003	American Association of Immunologists Denver, CO
May, 2003	Upper Chesapeake Health” “Pharmacology of Inhaled Corticosteroids” BelAir, MD
May, 2003	Scientific Concepts Thought Leader Market Research Meeting Sponsored by: Merck Washington, DC
July, 2003	Congress on Inhaled Corticosteroids in the Treatment of Asthma and COPD, Sponsored by: Healthmatters Communications New York, NY
August, 2003	COPD Basic Science national Advisory Board Sponsored by: Healthcare Solutions Chicago, IL
July 2004	Daclizumab Asthma Advisory Board Mtg Newport Beach, CA
July 2004	Science of COPD: Opportunities for Combination Therapy Mtg Sponsored by GlaxoSmithKline Chicago, IL
July 2004	Aventis Pharmaceuticals Core Asthma Group Advisory Board Mtg New York, NY
September 2004	Bi-Annual NIAID Asthma and Allergic Diseases Research Centers Mtg, Bethesda, MD
September 2004	The Science of COPD: Opportunities for Combination Therapy Mtg, Sponsored by GlaxoSmithKline Miami, FL
September 2004	Northwestern University Department of Medicine Research Seminar Series: “Cellular and Molecular Mechanisms of Allergic Inflammation in Human Airways”

January 2005	Chicago, IL Northwestern University Department of Pathology Lecture Series “Cellular and Molecular Mechanisms of Allergic Inflammation in Human Airways”
March 2005	Chicago, IL NIH-Center for Scientific Review-LCMI MC SEP Mtg Washington, DC
March 2005	American Academy of Allergy, Asthma & Immunology Mtg Workshop 2718: TLR and Allergic Inflammation “Interactions between innate immune responses and allergic inflammation” San Antonio, TX
March 2005	NIAID Focus Group Mtg San Antonio, TX
May 2005	University of Illinois Department of Pharmacology Research Seminars “Cellular and Molecular Mechanisms of Allergic Inflammation in Human Airways” Chicago, IL
May 2005	Rush University Medical Center Department of Immunology/Microbiology Research Seminar “Roles of Epithelium in Innate Immunity and Inflammatory Responses in the Airways” Chicago, IL
June 2005	Northwestern University Feinberg School of Medicine Grand Rounds “Regulation of Immunity and Inflammation in the Airways by Glucocorticoids” Chicago, IL
June 2005	19 <sup>th</sup> Annual Update: Johns Hopkins Frontiers in Research and Clinical Management of Asthma and Allergy mtg “T Cells: Both the Drivers and the Controllers” “The Emperor has New Clothes: New Considerations in Inhaled Corticosteroids” Baltimore, MD
June 2005	Altana Research Institute mtg Waltham, MA
July 2005	NCCAM: Mind and Body Conference Washington, DC
October 2005	Center for Comparative Respiratory Biology and Medicine Seminar “Regulation of Immunity and Inflammation in Airway Epithelium”, University of California at Davis Davis, CA
October 2005	Food Allergy Project Inaugural Symposium Chicago, IL
November 2005	BioMarck Scientific Advisory Board Meeting Durham, NC
January 2006	Scientific Outside Advisory Board Meeting for the Center for Childhood Asthma in Urban Environment Baltimore, MD
February 2006	Advances in 5-Lipoxygenase (5-L0) Science Meeting Las Vegas, NV sponsored by Critical Therapeutics

February 2006	University of Chicago Small Group Research Seminar Chicago, IL
February 2006	Core Asthma Group 2006 Advisory Board Meeting Sponsored by Sanofi-Aventis and ALTANA Pharm Phoenix, AZ
March 2006	American Academy of Allergy Asthma & Immunology Annual Meeting, STAR Program Symp #1121, Interactive Session, “Research Opportunities for PhDs in Allergy/Asthma Research” Miami Beach, FL
March 2006	AAAAI Annual Meeting, Dinner Symp #1901, “New Findings in Chronic Rhinosinusitis” Miami Beach, FL
March 2006	AAAAI Annual Meeting, Journal Club Seminar “High Impact Publications for Mechanisms of Asthma and Allergic Inflammation” Miami Beach, FL
March 2006	AAAAI Annual Meeting, Symp #3306, “Innate Immunity Modulation for the Treatment of Rhinitis, Sinusitis and Asthma” Miami Beach, FL
March 2006	AAAAI Annual Meeting, Cells & Mediators of Allergic Inflammation Committee Meeting Miami Beach, FL
March 2006	Scientific Specialist National Advisory Board Sponsored by GlaxoSmithKline Miami, FL
April 2006	4 <sup>th</sup> Annual Pittsburgh International Lung Conference “Regulation of Inflammation and Immunity in the Airways by Glucocorticoids” Pittsburgh, PA
June 2006	Michael Reese Hospital Medical Grand Rounds “Regulation of Immunity and Inflammation in the Airways by Glucocorticoids” Chicago, IL Chicago, IL
June 2006	Merck & Co National Respiratory Experts Forum Chicago, IL
July 2006	ICS/LABA Slide Development Working Group Mtg Sponsored by AstraZeneca Denver, CO
September 2006	Northwestern Univ Dept of Microbiology-Immunology Retreat Lake Geneva, WI
September 2006	Genentech Inc/Novartis Pharmaceuticals Corp: Xolair Disease Modification Advisory Board Meeting Chicago, IL
October 2006	Jos A Kwasman Mem Grand Rounds at the Univ of Rochester Rochester, NY
November 2006	The American College of Allergy, Asthma & Immunology Annual Scientific Meeting “Mechanisms of Corticosteroid Action in the Upper Airway” Philadelphia, PA
November 2006	35 <sup>th</sup> Annual Autumn Immunology Conference

	Chicago, IL
November 2006	NUFSM Dermatology Grand Rounds /Bench to Bedside “Inflammation, immunity and chronic rhinosinusitis”
	Chicago, IL
February 2007	American Academy of Allergy Asthma & Immunology Annual Meeting, STAR Program Symp 1181 presentation “Molecular Mechanisms of Allergic Inflammation”
	San Diego, CA
February 2007	AAAAI STAR Program Abstract Symp 1681, Moderator
	San Diego, CA
February 2007	AAAAI Annual Meeting oral abstract presentation 4607 “Mechanisms of Chronic Rhinosinusitis”
	San Diego, CA
April 2007	Xolair Disease Modification Advisory Board Meeting
	Chicago, IL
May 2007	Illinois Society of Allergy, Asthma & Immunology Annual Business Meeting and Food Allergy Prevention “Allergic Inflammation”
	Chicago, IL
July 2007	International Eosinophil Society Meeting Session moderator: Viral, Fungal, and Other Diseases
	Snowbird, UT
August 2007	Duke University SCCOR External Advisory Committee Meeting
	Durham, NC
October 2007	Core Asthma Group Advisory Board Meeting, sponsor, Aventis
	Phoenix, AZ
November 2007	Center for Childhood Asthma in the Urban Environment-Scientific Outside Advisory Board Meeting, Johns Hopkins Univ.
	Baltimore, MD
November 2007	36 <sup>th</sup> Annual Autumn Immunology Conference
	Chicago, IL
February 2008	Sepracor Allergy Advisory Board Meeting
	Boston, MA
March 2008	VentiRx Pharm Mtg “Toll-like Receptors in Allergic Rhinitis”
	Hilton Chicago Ohare Airport
March 2008	American Academy of Allergy Asthma & Immunology Annual Meeting, STAR Program Symp 1621, Moderator
	Philadelphia, PA
March 2008	AAAAI Annual Meeting, oral abstract session 3603, Moderator
	Philadelphia, PA
March 2008	AAAAI Annual Meeting, RSOD Featured Poster Session 585, “B cell-activating factor of the TNF family (BAFF) and a proliferation inducing ligand (APRIL) expression in chronic rhinosinusitis”
	Philadelphia, PA
March 2008	AAAAI Annual Meeting, Symposium 5306 presentation, “Immune Regulation”, Philadelphia, PA
March 2008	National Jewish Medical & Research Center, Visiting Professor Lecture, “Epithelial Regulation of Inflammation and Immunity”
	Denver, CO
April 2008	NUFSM invited panel discussion: Secrets of the Well-Funded
	Chicago, IL

April 2008	Experimental Biology/American Association of Immunologists Meeting, San Diego, CA
April 2008	NIEHS/Laboratory of Signal Transduction Seminar presentation “Regulation of Inflammation and Immunity by Epithelium” Research Triangle Park, NC
May 2008	University of Iowa Asthma Center Conference guest speaker presentation “Regulation and Inflammation and Immunity in the Airways by Epithelium”, Iowa City, IA
May 2008	AAAAI Annual Meeting Program Committee mtg Hilton Chicago Ohare Airport
June 2008	Core Asthma Group Advisory Board Meeting, Aventis, Chicago, IL
June 2008	Thomas L. Petty Aspen Lung Conference Presented- Giles F. Filley Lecture “The Epithelium: Not Just an Innocent Bystander” at Given Institute, Aspen, CO
June 2008	Feinberg School of Medicine- Immunology-Transplantation-Infectious Disease Mini-Retreat, Chicago, IL
September 2008	Boston City Wide Allergy-Immunology Rounds Presented “Regulation of inflammation and immunity in the Airways by epithelium”, Boston, MA
November 2008	Duke University SCCOR External Advisory Committee Meeting Durham, NC
November 2008	37 <sup>th</sup> Annual Autumn Immunology Conference, Chicago, IL
December 2008	CNTO 3157 Advisory Board Mtg – Centocor Inc. Philadelphia, PA
February 2009	Recent Advances in the Pathophysiology of Allergic Disease mtg, sponsor: sanofi-aventis, Miami, FL
March 2009	AAAAI Annual Meeting, FIT Program Symp 1011 presentation, “Airway Mucosal Immunity” Washington, DC
March 2009	AAAAI Annual Meeting, STAR Program Symp 1021 presentation, “Mechanisms of Action of Glucocorticoids in the Airways”
March 2009	AAAAI Annual Meeting, STAR Program Symp 1521, Moderator
March 2009	AAAAI Annual Meeting, Workshop 2808 presentation, “Airway Epithelial and Chronic Rhinosinusitis”
March 2009	AAAAI Annual Meeting, Oral Abstract Session 4606, Moderator
April 2009	Rhinology World 2009 Meeting, guest lecturer for mini seminar “Mucosal Innate Immunity & CRS”, Philadelphia, PA
May 2009	American Association of Immunologists Meeting, abstract presentation “Regulation and function of newly-recognized IL-1 family cytokines in human bronchial epithelial cells” Seattle, WA
May 2009	Center for Childhood Asthma in the Urban Environment-Scientific Outside Advisory Board Meeting, Johns Hopkins Univ. Baltimore, MD
July 2009	27 <sup>th</sup> Annual Aspen Allergy Conference at Given Institute, lecture presentation “Inflammation in chronic sinusitis”, Aspen, CO
October 2009	Sixth Annual Respiratory Disease Young Investigators Forum, presentation- “Studies of chronic rhinosinusitis that illustrate the value of collaboration between PhD and MD scientist” Phoenix, AZ

November 2009	19 <sup>th</sup> Annual Johns Hopkins Asthma and Allergy Center Fall Symposium, presentation- “Inflammatory and immune responses in the upper airways and sinuses of humans”, Baltimore, MD
January 2010	Case Western Reserve University 2009-10 Seminar Series, presentation- “Studies of the human immune response in the upper airways”, Cleveland, OH
January 2010	Duke University SCCOR External Advisory Committee Meeting Durham, NC
January 2010	Childrens Hospital Medical Center Allergy Conference, presentation- “Inflammation and immune responses in the upper airways and sinuses of humans”, Cincinnati, OH
January 2010	MedImmune Inc Research Meeting, presentation- “Studies on the pathogenesis of chronic rhinosinusitis and identification of possible therapeutic targets”, Gaithersburg, MD
February 2010	AAAAI Annual Meeting, Discussion Leader, Seminar 2013 “Epithelial-derived cytokines in allergic airway inflammation”, New Orleans, LA
February 2010	AAAAI Annual Meeting, Symposium 3305 presentation, “Defects in epithelial barrier function in CRS”
February 2010	AAAAI Annual Meeting, Moderator, Symposium 4305
April 2010	Center for Childhood Asthma in the Urban Environment Advisory Board Meeting, Baltimore, MD
May 2010	American Association of Immunologists Meeting, abstract presentation “Local autoantibodies in chronic rhinosinusitis (CRS) with nasal polyps, Baltimore, MD
May 2010	Symposium on Infection and Immunity, University of Chicago Committee on Immunology, Chicago, IL
June 2010	AAAAI Annual Meeting Program Committee meeting, Hilton Chicago Ohare Airport
June 2010	2010 Lung Research Symposium, presentation- “Studies of inflammation and immunity in the upper airways of humans” Chicago, IL
August 2010	Grand Rounds at St. Joseph’s Hospital, lecture presentation “Studies on the pathogenesis of chronic rhinosinusitis” Chicago, IL
September 2010	GSK Respiratory CEDD Board Meeting, Philadelphia, PA
October 2010	Scientific Advisory Board Mtg, Chemocentryx Inc, Mountain View, CA
November 2010	Molecular & Cellular Biology Fall Seminar at Univ of Maryland- College Park, lecture presentation “Immune and inflammatory responses in the upper airways of humans” College Park, MD
November 2010	AAAAI Program Committee Abstract Review Meeting Washington, DC
November 2010	Pulmonary Research Conference-Ohio State University, lecture presentation “Studies of inflammation and immunity in the upper airways of humans”, Columbus, OH
December 2010	Pittsburgh International Lung Conference at University of Pittsburgh, lecture presentation “Studies on inflammation and immunity in the human upper airways”, Pittsburgh, PA

January 2011	WSAAI 49 <sup>th</sup> Annual Scientific Session, two lecture presentations “Of shrimp and mites: Roles of chitins in allergic disease”; “Epithelium, inflammation and immunity in the upper airways: Studies in chronic sinusitis”, Maui, Hawaii
February 2011	Human Genome Sciences Inc, invited external speaker “BAFF in asthma and chronic allergic rhinosinusitis”, Rockville, MD
February 2011	Guest speaker at Regeneron Pharmaceuticals Mtg, Tarrytown, NY
March 2011	AAAAI Annual Meeting, Moderator, 2701 Keynote Session “Polyvalent DNA: A new paradigm in molecular diagnostic and intracellular gene regulation”, San Francisco, CA
March 2011	AAAAI Annual Meeting, speaker, 3101 Plenary Session, presentation “Dysregulation of the immune barrier in chronic rhinosinusitis” (2011 Elliott Middleton Memorial Lectureship recognition)
April 2011	The 50 <sup>th</sup> Annual Swineford Allergy Conference at Univ of Virginia Guest speaker presentation “What is the “it is” in sinusitis?” Charlottesville, VA
April 2011	Mayo Clinic Internal Medicine Grand Rounds, presentation “Studies on the pathogenesis of chronic sinus disease”, Scottsdale, AZ
April 2011	Mayo Clinic Science of Medicine Research Seminary, presentation “Regulation of inflammation and immunity in the airways by glucocorticoids”, Scottsdale, AZ
May 2011	American Association of Immunologists (AAI) Meeting, San Francisco, CA
June 2011	AAAAI Annual Program Committee (AMPC) Mtg, Hilton Chicago Ohare Airport, IL
October 2011	Center for Childhood Asthma in the Urban Environment Advisory Board Meeting, Baltimore, MD
October 2011	The New York Asthma & Allergy Teaching Day, presentation “Studies on the Pathogenesis of Chronic Rhinosinusitis” Cornell Univ, New York, NY
November 2011	AAAAI Annual Program Committee (AMPC) Mtg, Hilton Chicago Ohare Airport, IL
March 2012	AAAAI Annual Meeting, 1011 FIT Symposium, presentation “Allergic and Non-Allergic Mechanisms Contributing to Upper Airway Inflammation”, Orlando, FL
March 2012	AAAAI Annual Meeting, 1604 NIAID Afternoon Course, presentation “Innate and Adaptive Immune Responses in Chronic Upper Airway Inflammation”, Orlando, FL
April 2012	Johns Hopkins Univ Asthma & Allergy Research Center, presentation “Studies of inflammation and immunity in chronic rhinosinusitis”, Baltimore, MD
May 2012	American Association of Immunologists (AAI) Meeting, Boston, MA
June 2012	Medical College of Wisconsin Allergy Grand Rounds presentation “Immune and Inflammation Responses in Chronic Rhinosinusitis”
June 2012	AAAAI Annual Program Committee (AMPC) Mtg, Hilton Chicago Ohare Airport, IL
July 2012	NU-IGP Course: Introduction to Translational Research, presentation to students, Chicago, IL

September 2012	Univ of Illinois Hospital and Health Sciences System Conference: Translational Approaches to Reducing Health Disparities in Lung Disease. Co-chair for Session V-Airway Diseases.
November 2012	Univ of California-Davis CCRBM Research Seminar, presentation “Studies on Inflammation and Immunity in the Upper Airway of Humans”, Davis, CA
November 2012	GSK Respiratory CEDD Board Meeting, Philadelphia, PA
January 2013	Second Allergy Drug Discovery & Development Conference, presentation “Mechanisms of pathogenesis in chronic sinus disease” San Diego, CA
February 2013	AAAAI Annual Meeting, speaker, 1205 AERD session “Pathophysiologic lessons: Studies from aspirin tolerant and Intolerant rhinosinusitis and nasal polyps”, San Antonio, TX
February 2013	AAAAI Annual Meeting, speaker, 1201 TIGERS session “CS”, San Antonio, TX
May 2013	GSK Respiratory CEDD Board Meeting, Philadelphia, PA
June 2013	MERCK Chronic Rhinosinusitis Scientific Input Engagement Meeting, presentation “Pathophysiology/Hot targets”, Newark Hilton, NJ
August 2013	Washington Univ Clinical Allergy for the Practicing Physician, presentations “Adaptive immunity, autoimmunity & AERD (Samter’s Triad)”, “Innate immunity and tissue remodeling in chronic rhinosinusitis”, St. Louis, MO
October 2013	GSK Respiratory CEDD Board Meeting, Philadelphia, PA
November 2013	8 <sup>th</sup> Annual Nemaclin Asthma Conference, presentation “Inflammation, immunity and remodeling in chronic rhinosinusitis” Farmington, PA
December 2013	GSK Respiratory CEDD Board Meeting, Philadelphia, PA
February 2014	Scientific Advisory Committee Review for the Cincinnati Childrens Hosp Med Ctr, Cincinnati, OH
February 2014	AAAAI Annual Meeting, speaker, Plenary Session 3101 Integrated Airways, “Host defense, inflammation and remodeling in the upper airway”, San Diego, CA
March 2014	Mayo Clinic Tackling Problematic Chronic Rhinosinusitis: A Conclave of Global Experts Conference, presentations “Remodeling in nasal polyp disease”, “B-cell targets”, Phoenix, AZ
May 2014	Geo Washington Univ Review of K12 Genomics Lung Scholars & research seminar presentation “Inflammation, immunity and remodeling in the upper airways of humans”, Washington, DC
July 2014	GSK Respiratory CEDD Board Meeting, Philadelphia, PA
September 2014	Greater Washington Asthma, Allergy & Immunology Society, presentation “New perspectives on the pathogenesis of chronic rhinosinusitis”, Bethesda, MD
October 2014	Asthma & Allergic Diseases Cooperative Research Centers Steering Committee (AADCRC) mtg, Bethesda MD (invited for PPG grant presentations)
February 2015	Sanofi Advisory Board Meeting, presentation “Overview of CRS Pathogenesis”, Newark, NJ



February 2015	AAAAI Annual Meeting, Session #1608 Aspirin-Exacerbated Respiratory Disease (AERD): Molecular Pathogenesis, presentation “Activation of the Innate and Adaptive Immune Systems in Nasal Polyposis”, Houston, TX
March 2015	Mayo Clinic Tackling Problematic Sinonasal Disease: Debates & Consensus, presentations “The 3D Global View CRS Pathophysiology”; “AERD: Investigations in Epidemiology and Pathogenesis”; “Future Targets in CRS Management”; “Bridging the Gaps Between the Lab and the Clinic: The Keys to Advancing in the CRS Research Field”, Phoenix, AZ
April 2015	National Jewish Health DOM Accomplished Scientist Speaker Program, presentation “Inflammation and remodeling in upper airways and sinuses of humans”, Denver, CO
May 2015	American Association of Immunologists (AAI) Immunology 2015 Meeting, New Orleans, LA
June 2015	American Rhinology Society 2015 FOCIS Mtg, presentation “The Big Picture”, San Diego, CA
May 2015	Mepolizumab Asthma Mock Advisory Committee Meeting, Research Triangle Park, NC
June 2015	AAAAI Annual Program Committee (AMPC) Mtg, Hyatt Regency Ohare Airport, Chicago, IL
July 2015	International Eosinophil Society 9 <sup>th</sup> Biennial Symposium, presentation, “State of the art: Role of eosinophils in chronic rhinosinusitis”, Chicago, IL
July 2015	Aspen Allergy Conference, presentation “Sinusitis Pathogenesis”, Aspen, CO
October 2015	ADRN External Scientific Advisory Committee Meeting, Rockville, MD
November 2015	Asthma and Allergic Diseases Cooperative Research Centers Steering Committee meeting, Rockville, MD
November 2015	Genentech Research Talk, presentation “Pathogenic Mechanisms in Chronic Rhinosinusitis”, San Francisco, CA
December 2015	Genentech Protocol Guidance Mtg, San Francisco, CA
December 2015	University of Chicago Research Talk, presentation “Inflammation and remodeling in the human upper airways”, Chicago, IL
December 2015	Rush University Med Ctr Research Talk, Chicago, IL
January 2016	3 <sup>rd</sup> Allergy & COPD Conference, presentation “Sinusitis Pathogenesis”, San Diego, CA
February 2016	AstraZeneca Research Talk & Consultation Mtg, Gaithersburg, MD
March 2016	AAAAI Annual Meeting, moderator, Session #2304 Epithelium and Innate Immune Responses: Airways and Skin; discussion leader, Session #4708 Dysregulation Coagulation System in Airway Inflammation and Remodeling; moderator, Session #4803 New Biological Therapies on the Horizon for Severe Allergic Disease of the Airways and Skin, Los Angeles, CA
March 2016	Scripps Clinic Allergy Conference, presentation “Chronic Rhinosinusitis: Immunologic Mechanisms of an Upper Airways Inflammatory Disease” San Diego, CA
March 2016	University of Arizona College of Medicine Research Talk, Tucson, AZ

March 2016	Mayo Clinic Tackling Problematic Sinusitis: Module-based Solutions, presentation “Pathophysiology of Recalcitrant Sinusitis”; panelist on Panel Discussion: Generating and Evaluating Published Evidence in CRS, Phoenix, AZ
April 2016	FARE Research Retreat, Tysons, VA
April 2016	2016 K. F. Austen Visiting Professor in Allergy and Immunology, Brigham & Women’s Hospital, Harvard Medical School, two presentations “Inflammation, Immunity and Remodeling in the Upper Airways”, Boston, MA
April 2016	Endocrine Society’s 98 <sup>th</sup> Annual Meeting & Expo, presentation “Glucocorticoids and Innate Immunity”, Boston, MA
May 2016	Immunology 2016 AAI Annual Meeting, Seattle, WA
June 2016	Sanofi T2/Th2 Advisory Board Meeting, Boston, MA
July 2016	GSK Advisory Board Meeting, Chicago, IL
September 2016	ADRN Steering Committee Meeting, Rockville, MD
September 2016	UCB Advisory Board Meeting, New York City, NY
October 2016	11 <sup>th</sup> Annual NemaColin Asthma Conference, presentation “Mechanisms of Pathogenesis of Chronic Rhinosinusitis”, Pittsburgh, PA
November 2016	Yale Severe Asthma 2016 Conference, presentation “Inflammation, Immunity and Remodeling in the sinuses and upper Airways”, New Haven, CT
November 2016	Asthma and Allergic Diseases Cooperative Research Centers Steering Committee meeting (AADCRC/NIAID), Rocville, MD
February 2017	FAMRI Sinusitis Symposium, (Chaired mtg), Miami, FL
March 2017	AAAAI Annual Meeting, Atlanta, GA
March 2017	U of South Florida Research Conference/Visiting Professor Lecture Series, presentation “Pathogenic mechanisms in chronic rhinosinusitis”, Tampa, FL
March 2017	Mayo Clinic Tackling Problematic Sinusitis: Benchtop to Better Outcomes 2017, presentation “CRS as a disease of the mucosal barrier”; “An Overview of CRS Pathophysiology for the Clinician”, Phoenix, AZ
June 2017	FOCiS 2017 Precision in Immunology Meeting, Chicago, IL
October 2017	ACAAI Annual Scientific Meeting, presentation “Unraveling innate immunity/barrier function and inflammatory endotypes in chronic rhinosinusitis”, Boston, MA
November 2017	Asthma and Allergic Diseases Cooperative Research Centers Steering Committee meeting (AADCRC/NIAID), Rocville, MD

### **Invited Lectures/Meetings (International )**

May, 1992	19th Symposium of the Collegium Internationale Allergologicum. Capri, Italy
June, 1992	Eosinophils 92 Conference. Sponsored by UCB Pharma and Pfizer Labs. Limerick, Ireland
August, 1992	8th International Congress on Immunology. New Trends in Immunological Activities in Glucocorticoids. Chairman, Special Satellite

September, 1992	Budapest, Hungary "Asthma IV" Conference
January, 1993	Bermuda The first international collegium on Advances in Asthma. Sponsored by Rhone-Poulenc Rorer International.
February, 1994	Cancun, Mexico National Children's Hospital
February, 1994	Tokyo, Japan Yamanouchi Pharmaceutical
February, 1994	Tsukuba, Japan Japan-Korea Allergy Society Meeting
February, 1994	Utsunomiya, Japan Tohoku University
March, 1994	Sendai, Japan Eosinophils and Basophils Chairpersons: Drs. Gleich and Lichtenstein
March, 1995	Cabo San Lucas, Mexico Allergy/Asthma Advisory Committee Sponsored by Rhone-Poulenc Rorer International
June, 1995	Paris, France Asthma - The Important Questions 3
September, 1995	Athens, Greece 1st Astra Draco Annual Research Seminar Sponsored by Astra Draco, Sweden
October, 1995	Lund, Sweden Glucocorticosteroid Resistance - Workshop Sponsored by Astra Draco, Sweden
April, 1996	London, England The Japanese Society of Allergology Spring Meeting of the 8th Japanese Congress of Allergology "Molecular biological approach on steroid treatment"
May, 1996	Yokohama, Japan Allergy and Asthma Advisory Committee Board Sponsored by Rhone-Poulence Rorer, Inc.
June, 1996	Paris, France International symposium on "Eosinophils in Allergic Inflammation and Parasitic and Infectious Diseases"
July, 1996	"Eosinophils and glucocorticoids" Rio de Janeiro, Brazil Workshop entitled "Efficacy and Safety of Inhaled Steroids"
December, 1996	"Chemokines and other epithelial-derived leukocyte chemoattractants as targets of inhaled glucocorticoid actions" Sponsored by: Astra Draco, Sweden and Astra USA St. James, Antigua Inspiraplex workshop on "Viruses and Glucocorticoids"
January, 1997	"Steroids in asthma: What are the issues?" Sponsored by: Inspiraplex Network Vancouver, Canada Workshop: "Methods for Comparing the Efficacy and Safety of Inhaled Glucocorticosteroids".
April, 1997	"Potency of inhaled glucocorticoids" Brussels, Belgium 2nd Annual Astra Draco Annual Research Seminar
May, 1997	Sponsored by: Astra Draco, Sweden Lund, Sweden Asthma V meeting on "Asthma and Allergic Diseases - Physiology, Immunopharmacology and Treatment"

- November, 1997 Naples, Italy  
McGill University / Meakins-Christie Laboratories  
"Mechanism of glucocorticoids in asthma"  
"Chemokines, epithelium and asthma"
- February, 1998 Montreal, Canada  
Chemokines, Eosinophils, and Asthma - Network Centre of Excellence Workshop  
Sponsored by Merck Frosst, Canada  
Held at the Le Chateau Bromont Spa  
"C-C Chemokines - Comparative Studies"
- February, 1998 Montreal, Canada  
"Management of Allergic Rhinitis with Topical Nasal Steroids: Symptomatic Release or Long-term Treatment"  
Sponsored by Schering-Plough  
"Mechanisms of Glucocorticoid Action in Allergic Disease"
- February, 1998 Sienna, Italy  
The International Theophylline Symposium '98  
Sponsored by The Mitsubishi Chemical Corporation and Nikken Chemicals Co., Ltd.  
"The role of chemokines and epithelial activation allergic inflammation"
- March, 1998 Makuhari, Japan  
The Many Faces of Airway Inflammation  
Sponsored by Astra Draco, Sweden  
"Effects of Inhaled Steroids"
- June, 1998 Whistler, Canada  
Perennial Rhinitis: How to Optimize Management  
Astra Satellite Symposium at EAACI '98  
Sponsored by Astra Draco, Sweden  
"Future therapies for allergic diseases of the airways"
- November, 1998 Birmingham, England  
Glaxo Asthma Forum  
Sponsored by Glaxo Wellcome, Nippon  
"Cellular and Molecular Mechanisms of Glucocorticoid Actions in Asthma"
- November, 1998 Tokyo, Japan  
3rd Astra Draco Research Seminar - Techniques and Knowledge for the 21st Century  
Sponsored by Astra, Sweden
- December, 1998 Lund, Sweden  
Internet World Congress  
Novel Cellular and Molecular Mechanisms in Allergic Inflammation  
Chaired by: Judah A. Denburg, M.D., FRCP  
"Effects of Corticosteroids"
- February, 1999 Cytokine and Chemokine Receptor Workshop  
Sponsored by Merck-Frosst Canada, Inc.  
"Chemokines in Allergic Inflammation"
- March, 1999 Ste-Adele, Quebec  
Allergy 2000 - State of the Art  
"Management of Allergic Rhinitis in the New Millenium:  
"The role of cytokines in allergic disease.  
"Future therapies for allergic disease.  
"Mechanisms of action and use of topical nasal steroids for the management of allergic rhinitis"  
Sponsored by: The Royal College of Otolaryngology of Thailand and Schering-Plough, Thailand
- March, 1999 Private Practice: Pediatricians Study Group  
"The role of cytokines in allergic diseases"

March, 1999	Hong Kong The Hong Kong Otorhinolaryngological Society “Potential use of cytokines and cytokine antagonists in allergic rhinitis”
March, 1999	Hong Kong Singapore Society of Otorhinolaryngology and Schering-Plough, Malaysia “Mechanisms of action and use of topical nasal steroids for the management of allergic rhinitis”
May, 1999	Phuket, Thailand International Seretide Launch meeting Sponsored by: Glaxo Wellcome Berlin, Germany
October, 1999	Eosinophil 1999 - An International Symposium on Eosinophil Biology in Health and Disease Sponsored by: AstraZeneca, Schering Plough, Pharmacia and Upjohn “Regulation of epithelial expression of eosinophil-active chemokines by cytokines and glucocorticoids”
March, 2000	Lund, Sweden IX International Respiratory Forum meeting Royal College of Surgeons Sponsored: GlaxoWellcome Research and Development Chairman and speaker “The scientific basis for a complementary approach to asthma treatment”
May, 2000	London 7th Annual Allergy Fellows Symposium “The role of chemokines in allergic diseases”
May, 2000	Toronto, Canada 23rd Collegium Internationale Allergologicum meeting Allergy in the 21st Century: New Answers to Old Questions
July, 2000	Hakone, Japan Schering-Plough Aerius Advisory Board Meeting
October, 2000	Lisbon, Portugal 17th International Congress of Allergology and Clinical Immunology Sponsored by: Pharmacia Allergy Research Foundation “T cells and epithelial chemokines”
February, 2001	Sydney, Australia 4 <sup>th</sup> Annual Meakins-Christie Workshop – The Pathogenesis of Asthma and COPD: Current and Future Aspects. Invited by: Qutayba Hamid, M.D. Montreal, Canada
March, 2001	Control through Synergy: Special Issues Advisory Board Sponsored by: GlaxoSmithKline London, England
April, 2001	Control through Synergy: Special Issues Advisory Board Sponsored by: GlaxoSmithKline Nice, France
May, 2001	The XXth Congress of the European Academy of Allergology and Clinical immunology Sponsored by: EAACI Berlin 2001 “Inflammatory cell trafficking: Adhesion molecules”
June, 2001	Berlin, Germany Preclinical Collaborators Workshop: “Long-acting $\beta$ 2-agonist/ corticosteroid interactions” Sponsored by: GlaxoSmithKline
August, 2001	Amsterdam, Netherlands Respiratory Speakers Summit

	Sponsored by: GlaxoSmithKline "Scientific Update" Vancouver, Canada
January, 2002	Rhinitis Advisory Board Meeting Sponsored by: AstraZeneca Westin Rio Mar Beach Resort Rio Grande, Puerto Rico
February, 2002	5 <sup>th</sup> Annual Meakins-Christie MUHC Research Institute Workshop Pathogenesis and Treatment of Asthma Sponsored by: Merck Frosst, 3M Canada, GSK, AstraZeneca. "Epithelium and allergic inflammation of the airways" Bromont, Quebec, Canada
February, 2002	Seretide Launches Sponsored by: SmithKline International "Combination therapy for bronchial asthma" El Salvador and Honduras
September, 2002	Western Medical Society Sponsored by: GlaxoSmithKline "Advances in asthma therapy" (CME accredited presentation) Kingston, Jamaica "Advances in asthma therapy" (CME accredited presentation) Mandaville, Jamaica "Advances in asthma therapy" (CME accredited presentation) Montego Bay, Jamaica
November, 2002	2002 CIA Symposium 24 <sup>th</sup> Symposium of the Collegium internationale Allergologicum Sponsored by: Aventis, ALK-Abello and Sepracor "On the central role for epithelium in immune and inflammatory responses in the airways" Bermuda
December, 2002	BSI/BSACI Joint Congress Society's Annual Congress "Mechanisms of glucocorticoid actions in asthma: airway epithelium as an important target" Harrogate, North Yorkshire, London
December, 2002	Kyoto Hakka Symposium Latest Developments in Clinical and Basic Research on Mast Cells. "Basophils as important mediators of allergic disease" Tokyo, Japan
February, 2003	6 <sup>th</sup> Annual Meakins-Christie Workshop Invited by: Qutayba Hamid "Airway epithelium in immunity and inflammation: Montreal, Canada
May, 2003	Asthma and Allergic Diseases (Asthma VI) Invited by: Gianne Marone "Epithelial responses in airway inflammation and immunity" Ischia, Italy
June, 2003	GSK Senior Respiratory Consultants Meeting Sponsored by: GlaxoSmithKline, London
September, 2003	World Allergy Organization Congress – XVIII ICACI "Debate of the day – Is the eosinophil a player or interested bystander in asthma?" "Mechanisms of action in inhaled corticosteroids" Vancouver, Canada
February 2005	8 <sup>th</sup> Annual Meakins-Christie International Workshop Montreal, Canada
May 2005	4 <sup>th</sup> Biennial Congress of the International Eosinophil Society mtg

	“Integration of Inflammation and Innate Immunity in the Airways” Bern, Switzerland
July 2005	British Society for Allergy & Clinical Immunology Mtg (BSACI 2005) “Glucocorticoid Action in Allergic Diseases” Loughborough University, Leicestershire, UK
September 2005	14 <sup>th</sup> Airway Club Meeting in Sendai International Center, Abstract presentation “Glucocorticoids Suppress Inflammation but Spare Innate Immune Responses in Airway Epithelium” Sendai, Japan
October 2005	AllerGen NCE Inc. First Annual Research Conference Plenary Research Symposium: AllerGen: Innovation from Cell to Society Toronto, Ontario, Canada
February 2006	2006 Meakins-Christie International Workshop, lecture presentation- “Recent Advances in Asthma and COPD” Ste-Adele, Quebec, Canada
June 2006	Canadian Society for Immunology lecture presentation- “Innate Immunity and Allergic Disease” Halifax, Nova Scotia
February 2007	10 <sup>th</sup> Annual Meakins-Christie Workshop, lecture presentation- “The Role of Epithelium as an Integrator of Innate and adaptive Immune Responses”, St. Sauveur, Quebec, CANADA
May 2007	AllerGen International Scientific Excellence Advisory Committee Meeting, Toronto, Ontario, CANADA
June 2007	The 19 <sup>th</sup> Spring Meeting of the Japanese Society of Allergology Two lecture presentations: “Epithelium” and “Steroids” Yokohama, Japan
October 2007	Schering-Plough National Advisory Board Meeting Toronto, Ontario, CANADA
February 2008	11 <sup>th</sup> Annual Meakins-Christie Workshop, lecture presentation “Airway epithelium: At the interface between innate and adaptive immunity”, Manoir des Sables, Quebec, CANADA
July 2008	British Society for Allergy & Clinical Immunology Mtg (BSACI 2008), presented Jack Pepys Lecture “The roles of epithelium in the intergration of inflammatory and immune responses in the airways” Loughborough University, Leicestershire, UK
September 2008	COPD-The Important Questions VII COPD and asthma: Similarities and differences Presented “Cellular mechanisms in asthma”, Rome, Italy
November 2008	GSK Respiratory CEDD Board Meeting, London, UK
March 2009	GSK Respiratory CEDD Board Meeting, London, UK
June 2009	The 21 <sup>th</sup> Spring Meeting of the Japanese Society of Allergology Three lecture presentations: “Airway epithelium as a contact point of innate immunity and acquired immunity”, “Innate immunity and COPD” and “ICS treatment and innate immunity”, Gifu, Japan
June 2009	GSK Respiratory CEDD Board Meeting, London, UK
July 2009	6 <sup>th</sup> Biennial International Symposium of the International Eosinophil Society, lecture presentation “Molecular basis of corticosteroid action in eosinophilic disorders”, Bruges, Belgium
September 2009	GSK Respiratory CEDD Board Meeting, London, UK

October 2009	59 <sup>th</sup> Annual Congress of Japanese Society of Allergology, lecture presentations “The role of epithelium in innate immunity and inflammation in chronic rhinosinusitis”, “Eosinophilic inflammatory responses in the upper airways and sinuses of humans”, Akita, Japan
November 2009	Severe Asthma Expert Panel Meeting, Windsor, UK
November 2009	GSK Respiratory CEDD Board Meeting, London, UK
February 2010	13 <sup>th</sup> Annual Meakins-Christie Workshop, presentation- “Studies of Inflammation and immunity in the upper airways of patients with chronic rhinosinusitis”, Montreal, Canada
February 2010	GSK Respiratory CEDD Board Meeting, London, UK
November 2010	GSK Respiratory CEDD Board Meeting, London, UK
March 2011	GSK Respiratory CEDD Board Meeting, London, UK
May 2011	GSK Respiratory CEDD Board Meeting, London, UK
May 2011	GSK Benlysta for Respiratory Diseases Advisory Board Meeting, London, UK
June 2011	International Eosinophil Society (IES) 7 <sup>th</sup> Biennial Symposium, presentation “Eosinophils and rhinosinusitis”, Quebec City, CANADA
September 2011	GSK Respiratory CEDD Board Meeting, London, UK
November 2011	GSK Respiratory CEDD Board Meeting, London, UK
February 2012	16 <sup>th</sup> Annual Meakins-Christie Workshop on Asthma and COPD, presentation “On the role of B lymphocytes in chronic sinus disease”, Montreal, Canada
April 2012	GSK Respiratory CEDD Board Meeting, London, UK
July 2012	GSK Respiratory CEDD Board Meeting, London, UK
September 2012	GSK Respiratory CEDD Board Meeting, London, UK
November 2012	Second International Allergy, Asthma & Clinical Immunology Conference, lecture presentation “The emerging pathogenesis of chronic rhinosinusitis” Jerusalem, Israel
March 2013	GSK Respiratory CEDD Board Meeting, London, UK
April 2013	Wuhan Nasal Endoscopic Technique & Rhinosinusitis Summit, presentation “Mechanisms of inflammation and Immunity in chronic rhinosinusitis” Wuhan, China
April 2013	TriSpecialty Allergy-Immunology, Otolaryngology & Thoracic Meeting, presentations “Adaptive Immunity, Autoimmunity and CRS”, “Innate Immunity, Tissue Remodeling and CRS”, Vancouver BC
September 2013 presentation	52 <sup>nd</sup> Japanese Rhinologic Soc (JRS) Annual Congress, “Inflammation, immunity and remodeling in chronic rhinosinusitis” Fukui City, Japan
October 2013	50 <sup>th</sup> Annual Meeting of the Japanese Soc of Pediatric Allergy & Clinical Immunology, presentations “Mechanisms of Allergy”, “Mechanisms of allergic disease: A celebration of 25 years of collaboration with Japan”, Yokohama, Japan
April 2014	GSK Respiratory CEDD Board Meeting, London, UK
Nov 2014	McMaster Univ Residents Research Day 2014, 3 lectures presented, Grand Rounds - 3 <sup>rd</sup> Frederick E. Hargreave Memorial Lecture: “Inflammation, Immunity and Remodeling in Chronic



	Rhinosinusitis”, ENT lecture: “Inflammation, Immunity and Remodeling in Chronic Rhinosinusitis”, Allergy Rounds: The Role of Epithelium in Chronic Rhinosinusitis”, Hamilton Ontario, Canada
December 2014	GSK Respiratory CEDD Board Meeting, London, UK
February 2015	17 <sup>th</sup> Annual Meakins-Christie International Workshop on Asthma and COPD, Montreal, Canada
June 2016	European Academy of Allergy and Clinical Immunology (EAACI) Conference 2016, two presentations “Barrier Dysfunction in Rhinosinusitis”, “Mechanisms of Inflammation and Remodeling in Nasal Polyposis”, Vienna, Austria
May 2017	2017 Wuhan Nasal Endoscopic Technique and Rhinosinusitis Summit, presentation “Pathogenesis of Chronic Rhinosinusitis”, Wuhan, China
June 2017	EAACI Congress 2017 Helsinki, co-chaired poster session: Thematic Poster Session 18-Infection and Allergy; co-chaired: Year in Review Sessions-Year in Review ENT; presented Introductory Lecture “Pathogenic Mechanisms in Chronic Rhinosinusitis”, Helsinki, Finland

## PATENTS/INVENTIONS

Title: Polynucleotides encoding a sialoadhesin family member-2 (SAF-2).

Inventors: Bruce S. Bochner, Kristy K. Kikly, Connie L. Erickson-Miller, and Robert P. Schleimer.

JHU #: DM-3875

United States Patent #: 6,146,845

Date awarded: November 14, 2000

Title: Sialoadhesin factor-2 (SAF-2) antibodies.

Inventors: Bruce S. Bochner, Kristy K. Kikly, Connie L. Erickson-Miller, Julie A. Abrahamson, and Robert P. Schleimer

JHU #: DM-3906

Pending as of May, 2002

Title: Inhibition of cytokine generation.

Inventors: Robert Schleimer, John Schroeder, and William Kreutner

JHU #: DM-3586

Schering-Plough #: AL01143K

United States Patent #: 6,599,914 B2

Date awarded: July 29, 2003

Title: Sialoadhesin family member-2

Inventors: Kristine K. Kikly, Connie Lyn Erickson-Miller, Bruce Bochner and Robert Schleimer

United States Patent #: 7,214,772 B2

Date awarded: May 8, 2007

Title: Sialoadhesin factor-2 antibodies

Inventors: Julie A. Abrahamson, Connie L. Erickson-Miller, Kristine K. Kikly, Bruce Bochner, Robert Schleimer and T. Esra Nutku

United States Patent Application Publication #. US2008/0213212 A1

Date publ: Sept 4, 2008

Title: Sialoadhesin factor-2 antibodies

Inventors: Julie A. Abrahamson, Connie L. Erickson-Miller, Kristine K. Kikly, Bruce Bochner and Robert Schleimer

United States Patent #. 7,557,191 B2

Date awarded: July 7, 2009

Title: Sialoadhesin factor-2 antibodies

Inventors: Julie A. Abrahamson, Connie L. Erickson-Miller, Kristine K. Kikly, Bruce Bochner, Robert Schleimer and T. Esra Nutku

United States Patent Application Publication #. US2010/0056760 A1

Date publ: March 4, 2010

Title: Methods of use of sialoadhesin factor-2 antibodies

Inventors: Julie A. Abrahamson, Connie L. Erickson-Miller, Kristine K. Kikly, Bruce Bochner, Robert Schleimer and Esra Nutku

United States Patent #. 7,871,612 B2

Date awarded: Jan 18, 2011

Title: Peanut Allergy Treatment

Inventors: Daocheng Zhu, Robert P. Schleimer

United States Patent Application#: 13/933,312

Date awarded: Pending

## ACTIVE CONSULTING ACTIVITIES

Founder and Advisory Board Member, Allakos Inc.

Advisory Board Member, Aurasense Therapeutics

Advisory Board Member, Biomarck Therapeutics

Intersect ENT, Inc.

Merck

Sanofi Aventis

AstraZeneca/Medimmune

Genentech

Exicure Inc

Otsuka Inc

UCB

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2. Schleimer RP, Benjamini E, Eisele J, Henderson G. Pharmacokinetics of fentanyl as determined by radioimmunoassay. *Clin Pharmacol Exp Ther* 23(2):188-194, 1978.
3. Schleimer RP. Regulatory roles of histamine in the immune system. *Proc Western Pharmacol Soc* 21:145-151, 1978.
4. Schleimer RP, Leung C, Peterson W, Benjamini E. Immunochemical studies on the Enkephalins and Endorphins. *Proc Western Pharmacol Soc* 22:232-241, 1979.
5. Schleimer RP, Benjamini E. Specificity of mouse leukocyte binding to insolubilized histamine. *Proc Western Pharmacol Soc* 22:251-255, 1979.
6. Schleimer RP, Gillespie E, Lichtenstein LM. Release of histamine from human leukocytes stimulated with the tumor-promoting phorbol diesters. I. Characterization of the response. *J Immunol* 126:570-574, 1981.
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19. Peters SP, Schleimer RP, MacGlashan DW Jr, Schulman ES, Kagey-Sobotka A, Adams GK III, Lichtenstein LM. Lipoxygenase products of arachidonic acid: Their role in inflammatory events mediated by human basophils and mast cells. *In: Advances in Immunopharmacology*. (Eds: Hadden J, Mullen P, Chedid L, Spreafico F), Pergamon Press, Oxford, pp. 617-622, 1982.
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- and inflammatory disorders in man: Implications for the pathogenesis of asthma. *Chest* 87S:162S-164S, 1985.
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