

Dennis K. Ledford, MD

Professor of Medicine and Pediatrics
 Ellsworth & Mabel Simmons Professor of Allergy & Immunology
 University of South Florida Morsani College of Medicine

CRU

Mailing Address

University of South Florida (1985-present)
 Asthma, Allergy & Immunology Clinical Research Unit
 13801 Bruce B. Downs Blvd. Suite 505, Tampa, FL 33613
 Phone 813-631-4024 Fax 813-631-4030

James A. Haley VA

Hospital

Mailing Address

University of South Florida College of Medicine
 Division of Allergy and Immunology
 c/o V.A. Hospital (111D)
 13000 Bruce B. Downs Blvd.
 Tampa, Florida 33612
 Phone 813-972-7631 Fax 813-910-4041

Drs. Lockey, Fox,

Ledford, Glaum

Clinic

Mailing Address

13801 Bruce B. Downs Blvd. Suite 502
 Tampa, Florida 33613
 Phone 813-971-9743 Fax 813-558-9421

Biographical Data

Born: May 10, 1950
 Place of Birth: Johnson City, Tennessee
 Marital Status: Married to Jennifer L. Shelton, 1973
 Three sons- 1977, 1979, 1982

Professional

Education

B. Ch. Engineering
 Georgia Institute of Technology 1968-73

M.D., University of Tennessee
 Center for the Health Sciences 1974-76

Post-Graduate

Training

Fellowship in Clinical Allergy and Immunology
 University of South Florida, Tampa, Florida 7/83 - 6/85

Fellowship in Clinical Immunology and Rheumatology,
 New York University, New York, New York 7/80 - 6/82

Chief Residency in Medicine, City of Memphis
 Hospitals, Memphis, Tennessee 7/79 - 6/80

Assistant Residency and Associate Resident in
 Medicine, University of Tennessee Affiliated
 Hospitals, Memphis, Tennessee 1/78 - 6/79

Straight Medicine Internship, University of Tennessee
Affiliated Hospitals, Memphis, Tenn. 1/77 - 12/77

**Academic
Positions**

Professor of Pediatrics, University of South Florida 2006-
Director, Training Program in Clinical and
Laboratory Immunology 1992- 2004
Professor of Medicine, University of South Florida 2000-
Associate Professor of Medicine,
University of South Florida, Tampa, Florida 1991-2000
Assistant Professor of Medicine,
University of South Florida, Tampa, Florida 1985 - 1991
Clinical Associate, Internal Medicine,
University of South Florida, Tampa, Florida 1983 - 1985
Instructor, Department of Medicine, University
of Tennessee Center for the Health Sciences 7/79 – 6/80

**Committee
Assignments
and Leadership**

Member, Committee on Core Curriculum for Basic Sciences, University of
Tennessee Center for the Health Sciences, 1975-76
Member, Committee on Medical Library and Resource Utilization, University
of Tennessee Center for the Health Sciences, 1979-80
Member, City of Memphis Hospitals Committee for Operations, 1979-80
AIDS Advisory Committee, James A. Haley Veterans' Hospital, 1987
Infection Control Committee, University Community Hospital, 1987
Blue Cross Blue Shield of Florida, Medical Advisory Committee, 1987
Medical Director, Asthma and Allergy Clinic of the Judeo-Christian
Clinic, 1988-
American Academy of Allergy and Immunology Member, Continuing
Medical Education Committee, 1987-1990; Chairman, 1989
Member, American Academy of Allergy and Immunology, AIDS
Committee, 1989-current
Member, American Academy of Allergy Asthma and Immunology,
Autoimmune Committee, 1996-current
Secretary, Florida Allergy and Immunology Society, 1989-1990
Member, Drug Education Task Force, Hillsborough County Medical
Association and Tampa Chamber of Commerce, 1989-1991
National Hemophilia Foundation Medical Advisory Council, Florida
Chapter, 1990-1992

Vice President, Florida Allergy and Immunology Society, 1990-1991

Medical Advisor, Asthma and Allergy Foundation of America, Florida Chapter, Inc., Support Group, 1990-1998

Voting Delegate, Florida Medical Association Annual Meeting, 1991

President of the Florida Allergy and Immunology Society 1991- 1993

Member, Committee on Medical Student Selection, University of South Florida, Tampa, Florida, 1991-1998, 2002-Present

Voting Delegate, Florida Medical Association Annual Meeting, 1992

Member, AIDS Education Advisory Council, Hillsborough County School Board, 1992-1994

Member, American Academy of Allergy and Immunology, Post-graduate Education Planning Committee, 1992-1993

National Heart, Lung and Blood Institute, Expert Panel to Prepare Guidelines for Management of Asthma in the Elderly, in conjunction with the National Asthma Education Project, 1992-1993

American Academy of Allergy and Immunology Committee for the Core Curriculum for Clinical and Diagnostic Laboratory Immunology Training Programs, 1993-2004

Voting Alternate Delegate, Florida Medical Association Annual Meeting, 1993

Chairman, University of South Florida College of Medicine, Medical Student Selection Committee, Tampa, Florida 1994-1998

Chairperson of the Allergy Section, Southern Medical Association, 88th Annual Scientific Assembly, Orlando, FL, November 3-6, 1994

Program Directors' Committee, American Academy of Allergy and Immunology, In-service Examination Committee Member 1995-1999, 2006-

Program Co-chair, Eastern Allergy Conference, Naples, FL, April 26-30, 1995

Chair of the HIV Committee, American Academy of Allergy, Asthma and Immunology, 1996-1998

Medical Staff Section Chief, Allergy and Immunology, University Community Hospital, Tampa, Florida, 1999-

Director of the American Board of Allergy and Immunology, 1999-2004; Chair of Task Force on Maintenance of Certification 2002-2004; Chair of Nominating Committee 2003-2004; Co-Chair of Recertification Examination 2002-2003

Chair of the Laboratory and Clinical Immunology Committee, American Academy of Allergy, Asthma and Immunology, 2000-2002

Chair, Medical Student Selection Committee, University of South Florida, Tampa, Florida, 2003-2006

USF Faculty Sub-Committee (Chaired by Dr. Robert Nelson) for 3rd and 4th Year Curriculum Change, 2003-2004

Co-chair of Conjoint Board Review Course, American Academy of Allergy Asthma and Immunology and American College of Allergy Asthma and Immunology, 2003-2007

Member, Publication Committee, American College of Allergy Asthma and Immunology, 2005-

Director, American Academy of Allergy Asthma and Immunology Board of Directors, 2003-2008

American Academy of Allergy Asthma and Immunology, Governor of Region 3, Regional State and Local Allergy Societies, 2003-

Chair, Task Force for Underserved in Allergy/Immunology, American Academy of Allergy Asthma and Immunology, 2004-2008

Co-Chair, Conjoint AAAAI/ACAAI Board Review for Allergy/Immunology, 2004-2008

Member, Residency Review Committee for Allergy/Immunology, American Council of Graduate Medical Education, 2005-

Vice-chair, Residency Review Committee for Allergy/Immunology, American Council of Graduate Medical Education, 2009-

Co-Chair, Residency Review Committee for Allergy/Immunology, American Council of Graduate Medical Education, 2009-

American Academy of Allergy Asthma and Immunology, Allergy/Immunology Division Directors Task Force, Member, 2008-

Allergy Asthma and Immunology Education and Research Trust Board of Trustees and Co-Chair, 2007-

American Academy of Allergy Asthma and Immunology, Asthma in the Elderly Task Force, Member, 2007-

Allergy and Immunology Program Directors, In-Training Examination Committee, Member, 2006-

American Academy of Allergy Asthma and Immunology, Committee on the Underserved, Member, 2007-

World Allergy Organization, Committee on Immunotherapy, Co-Chair 2008-

Chair, AAAAI Task Force on Federal Lobbying Activities, 2008-2009

National Institute of Aging, Asthma in the elderly workshop, Participant, Bethesda, Maryland, Sept 2008

Chair, Work Group on Post Graduate Medical Education, Future of Allergy and Immunology Task Force of AAAAI and ACAAI July 2009-

Member, AAAAI Annual Program Committee, 2010-2012

Member, AAAAI Finance Committee, 2009-2013

President Elect of AAAAI, 2010-2011

President American Academy of Allergy and Immunology, 2011-12

Vice-President and President Elect, Faculty Council, University of South Florida College of Medicine, 2011-2013

Member of Allergy and Immunology Milestone Project, ACGME and ABAI 2011- 2012

International Safety Committee, Study of Atopic Dermatitis, March 2013-

Professional Memberships

American Medical Association	1975
American College of Physicians	1976
American Society of Internal Medicine	1977
American Rheumatism Association	1983
American Academy of Allergy and Immunology	1983
Florida Allergy and Immunology Society	1987
American College of Allergy and Immunology	1993

Honors

National Merit Scholar, Georgia Institute of Technology, Atlanta, Georgia	1968
Tau Beta Pi, Georgia Institute of Technology, Atlanta, Georgia	1972
B.Ch.E. (Co-Operative Plan) Summa Cum Laude Georgia Institute of Technology, Atlanta, Georgia	1973
A.O.A., University of Tennessee Center for the Health Sciences Memphis, Tennessee	1975
Faculty Medal Winner (Highest Scholastic Average of Class) University of Tennessee Center for the Health Sciences	1976
Department of Medicine Award as Outstanding Student of Internal Medicine, University of Tennessee Center for the Health Sciences	1976
Award of the Northeast Section of the American Rheumatism Association	1981
Department of Internal Medicine Faculty Award for Extraordinary Devotion and Skill in Teaching (awarded by the Third Year Residents of the University of South Florida College of Medicine, Department of Internal Medicine)	1987
Outstanding Speaker Award, Marion County Medical Association	1987
Volunteer of the Year Award, Volunteer Center of Hillsborough County (Judeo-Christian Health Clinic), April 22	1994
American College of Chest Physicians National Community Service Award	2000

Southeast American Lung Association Speaker 2001

Listed in the "America's Top Doctors" Guide
(Chosen among 4,000 doctors nationally) 2001-10

Certificate of Appreciation of Outstanding and Meritous Service,
Florida Medical Association Feb, 2010

Listed as "Most Compassionate Doctor" -Vitals 2012

Tampa General Hospital "25 Years of Service" Award 2013

Licensure

Tennessee MD010337 1977-1983
New York 1981-1983
Florida ME0039340 1982-

Diplomat of the American Board of Internal Medicine 1980
Diplomat of the American Board of Rheumatology 1984
Diplomat of the American Board of Allergy and Immunology 1985
Diplomat of the American Board of Diagnostic Laboratory
Immunology 1986

Private Practice

Internal Medicine, Clearwater, Florida 1982-1983
Allergy and Immunology and Rheumatology, Tampa, Florida 1986-

Editorships

Contributing Editor, Allergy Watch, 2000-present

Editorial Board of the Annals of Allergy Asthma and Immunology, 1998-2003

Editorial Board of the Journal of Allergy and Clinical Immunology, 2004-

Associate Editor of the Journal of Allergy and Clinical Immunology 2007-

MKSAP II for Allergy and Immunology, American College of Physicians,
Philadelphia, Pennsylvania.

Contributing Editor, MKSAP II, American College of Physicians, Section:
"Collagen Vascular Disease," "Immunotherapy" and "Indoor and Outdoor
Environments," 1994-1996

Ledford DK: Building and Home-Related Complaints and Illnesses: "Sick
Building Syndrome". Co-editor, J Allergy Clin Immunol, 94(2): 275-424, 1994

Ledford DK, Section Editor, "Vasculitis". In Current Rheumatology
Reports. Cronstein BN (ed), Gay S (Assoc. ed), 2(5): 365-438, October
2000

Ledford DK, Lockey RF, (Guest Editors). Immunology and Allergy Clinics
of North America-Immunotherapy: A Practical Review and Guide,
Volume 20, Number 3, pp 469-661. W.B. Saunders Company,
Philadelphia, PA, 2000

Lockey RF, Ledford DK.(editors) Allergens and Allergen Immunotherapy,
4th edition. Informa Healthcare (in press)

**Community
Service**

FDLRS-USF Workshop For Elementary School Guidance Counselors: "AIDS", Tampa, Florida, October 18, 1985

Mid-Florida Gulf Coast Chapter of the Retired Officers Association: "The Epidemic of the Acquired Immune Deficiency Syndrome: Impact on the General Community", Palm Harbor, Florida, November 13, 1985

South Florida Educational Planning Council: "The Community Impact of the Acquired Immune Deficiency Syndrome", Tampa, Florida, November 25, 1986

Hillsborough Coalition for Health: "Medical Overview of the Acquired Immunodeficiency Syndrome", Tampa, Florida, December 10, 1985

Men's Club of Northwood Presbyterian Church: "The Community Response to the Acquired Immunodeficiency Syndrome", Clearwater, Florida, December 10, 1985

West Coast Healthcare Coalition, Inc. "Medical Overview of AIDS", Sarasota, Florida, February 25, 1986

Hillsborough County Public Schools: "AIDS and the Risk to Public Workers", Tampa, Florida, February 27, 1986

Red Cross/Health Department/Air Force A.I.D.S. Seminar: "Diagnosis, Treatment, and Management of A.I.D.S.", MacDill Air Force Base, Tampa, Florida, April 4, 1986

Asthma and Allergy Foundation of America: "Stop the Sneeze", Information, Tampa, Florida, April 19, 1986

Pediatric and Adult Asthma, Understanding the Disease and the Treatments: "Adult Asthma". Co-sponsored by the Division of Allergy and Immunology, Departments of Medicine and Pediatrics and the Central Florida Chapter of the Asthma and Allergy Foundation of America, Tampa, Florida, May 17, 1986

Asthma and Allergy Foundation of America: Information Booth, Hillsborough County State Fair, Tampa, Florida, February 19, 1987

Asthma and Allergy Foundation of America: "Controversies in Allergy Testing", Information, Tampa, Florida, March 16, 1987

Asthma and Allergy Foundation of America: Panel Discussion, Tampa General Hospital, Tampa, Florida, May 16, 1987

Hillsborough County High School Science Teachers: "HIV Infections and AIDS", Tampa, Florida, July 8, 1987

Hillsborough County Public Schools Secondary Science In-service Day: "AIDS and Its Impact upon Adolescents", Brandon, Florida, August 26, 1987

Mountain View Chapel Baptist Church: "The Christian View of the Acquired Immunodeficiency Syndrome", Johnson City, Tennessee, September 13, 1987

Church of the Nativity: "The Christian View of the Acquired Immunodeficiency Syndrome", Brandon, Florida, October 4, 1987

Legal Service Providers of Florida: "The Epidemic of the Acquired Immunodeficiency Syndrome Social and Legal Implications", Sarasota, Florida, October 13, 1987

Medical Co-Director, Hillsborough County Chapter, Asthma and Allergy Foundation of America, 1987

Member, Tampa Bay AIDS Task Force, 1987

Hillsborough County Public Schools Secondary Science Inservice Day: "AIDS Update", Brandon, Florida, February 5, 1988

Junior League of Clearwater-Dunedin, Inc.: "AIDS: The Teenager and Parent", Clearwater, Florida, February 16, 1988

Pediatric and Adult Asthma: Public forum- Asthma and Allergy Awareness Week, Co-sponsored by the Division of Allergy and Immunology, Departments of Medicine and Pediatrics and the Central Florida Chapter of the Asthma and Allergy Foundation of America, Tampa, Florida, May 7, 1988

Medical Director of Allergy/Immunology Clinic of Judeo Christian Medical Clinic of Tampa, Florida, 1988-

Comprehensive Hemophilia Program Sponsored by the University of South Florida, "Management of HIV Infection", Tampa, Florida, March 8, 1990

American Rheumatism Association Educational Conference: "Rheumatoid Arthritis: What Treatment Works and What Does Not", Hudson, Florida, April 21, 1990

University of South Florida Health Sciences Teachers' Institute: "AIDS and Immunodeficiency", Tampa, Florida, July 5, 1990

University Community Hospital Lung Club and Asthma and Allergy Foundation of America, Hillsborough County Chapter, "What is Asthma", Tampa, Florida, August 23, 1990

Assistant Sunday School Teacher, Adult Class, Timms Memorial Presbyterian Church, Lutz, Florida, 1990-1991

Medical Advisor, Florida Chapter, National Hemophilia Foundation, 1990-1992

Medical Advisor for Asthma Support Group of the Asthma and Allergy Foundation, Florida Chapter 1990-

Member, Finance Committee, Timms Memorial Presbyterian Church, Lutz, FL, 1991- present

American Rheumatism Association Educational Conference: "Current Treatment of Rheumatoid Arthritis", Brooksville, Florida, May 1991

Hillsborough County School District Middle School Teachers' Workshop, "AIDS and Its Impact on Human Sexuality", Tampa, Florida, June 27, 1991

Hillsborough County School District Teacher In-Service, "AIDS Education to the Middle School Student", Tampa, Florida, Feb 7, 1992

Medical Mission Trip, Presbytery of Tampa Bay, Honduras, June 16-23, 2001

Medical Mission Trip, Presbytery of Tampa Bay, Honduras, June 15-22, 2002

Medical Mission Trip, Presbytery of Tampa Bay, Honduras, June 7-14, 2003

History and Physical Examinations for Preschool Students at Church Mission, Diocese of Tampa Bay, Tampa, FL, July 12, 2003

Tampa Tribune, Avoiding Adverse Drug Reactions, May 6, 2006, p18.

Tampa Tribune, Food Allergies: Uncommon But Dangerous, July 15, 2006, p18.

Tampa Tribune, Hygiene Hypothesis, Nov 2006

Tampa Tribune, Sinusitis, May 2007

Tampa Tribune, Hives: The rash that keeps on itching, Oct 2007

Tampa Tribune, Avoiding Allergies During the Holidays, Dec 2007

School Nurses, Hillsborough County, Update on Allergy, Asthma and Anaphylaxis. August 12, 2008, Tampa, Florida

Conferences and Lectures

American College of Physicians: Clinical Vignette, "Adult meningitis with nonencapsulated hemophilus influenza", New Orleans, Louisiana, April 1981

New York Academy of Science: Conference on the Immune Network, New York, New York, November 1982

Morton Plant Hospital Continuing Education Lecture: "The Acquired Immune Deficiency Syndrome Today", Clearwater, Florida, March 1983

Visiting Nurse Association of Hillsborough Continuing Education Lecture: "The Clinical Spectrum of the Acquired Immune Deficiency Syndrome", Tampa, Florida, December 1983

St. Petersburg Junior College, Lecture in the Emergency Medical Technology Program: "Pediatric Emergencies", St. Petersburg, Florida, January 1984

Orlando Veterans Administration Hospital Outpatient Clinic Continuing Education Lecture: "Immunodeficiency and the Acquired Immune Deficiency Syndrome", Orlando, Florida, August 1984.

Postgraduate Conference: Clinical Allergy and Immunology for the Practicing Physician, Sponsored by the University of South Florida College of Medicine, Division of Allergy and Immunology and the American Academy of Allergy and Immunology, "B and T Cell Lymphocytes", Lake Buena Vista, Florida, December 6, 1984

University of South Florida College of Medicine Medical Grand Rounds: "T & B Cell Function and Dysfunction as They Relate to Clinical Medicine", Tampa, Florida, May 9, 1985

Morton Plant Hospital Medical Grand Rounds: "Current Status of the Acquired Immune Deficiency Syndrome", Clearwater, Florida, May 21, 1985

Staff In Service Lecture: Bear Creek Nursing Home: "The Health Care Worker and the Acquired Immune Deficiency Syndrome", New Port Richey, Florida, June 12, 1985

Human Values Journal Club Lectures: Sponsored by the Division for the Study of Human Values in Medicine, College of Medicine, Department of Comprehensive Medicine, "Acquired Immune Deficiency Syndrome and the Physician", Tampa, Florida, September 20, 1985

Halifax Hospital Medical Grand Rounds: "Clinical Assessment of Lymphocyte Function", Daytona Beach, Florida, October 11, 1985

Florida Diagnostic and Learning Resource System: Department of Psychiatry, University of South Florida College of Medicine, and the Hillsborough County School Board, "The Acquired Immune Deficiency Syndrome", Tampa, Florida, October 18, 1985

University of South Florida Health Services Campus Education Series, Department of Student Affairs: "Current Status of the Acquired Immune Deficiency Syndrome", Tampa, Florida, October 30, 1985

Florida Association for Health and Social Services: "Acquired Immune Deficiency Syndrome and the Health Professional", Tampa, Florida, November 14, 1985

Scientific Assembly of the Southern Medical Association Annual Meeting: "Clinical Assessment of Lymphocyte Function and Dysfunction", Orlando, Florida, November 19, 1985

Postgraduate Conference: Clinical Allergy and Immunology for the Practicing Physician, Sponsored by the University of South Florida College of Medicine, Division of Allergy and Immunology and the American Academy of Allergy and Immunology, "Lymphocytes (B and T Cells)" and "Common Variable Agammaglobulinemia", Lake Buena Vista, Florida, December 5-7, 1985

Hillsborough County Health Department General Staff Meeting: "The Acquired Immune Deficiency Syndrome and the Health Professional", Tampa, Florida, December 17, 1985

MKSAP VII Review Course, University of Miami: "Immunology", Miami, Florida, January 24-25, 1986

University of South Florida College of Medicine Medical Grand Rounds: "HTLV III and Other Human Retroviruses: Their Biology and Potential Therapies", Tampa, Florida, February 6, 1986

Pinellas County Health Department: "The Acquired Immune Deficiency Syndrome from the Physician's Point of View", St. Petersburg, Florida, April 3, 1986

Department of Health and Rehabilitative Services, Hillsborough County Public Schools: "The Potential Impact of the Acquired Immune Deficiency Syndrome on the Public School System", Tampa, Florida, May 2, 1986

Orlando Regional Medical Center Grand Rounds: "HTLV III and Other Human Retroviruses: Their Biology and Potential Therapies", Orlando, Florida, May 22, 1986

Florida Dietetic Association Convention: "Acquired Immune Deficiency Syndrome", Bay Pines, Florida, June 23, 1986

University of South Florida College of Medicine: Education Series for Public High School Teachers, "Immunodeficiency, AIDS", Tampa, Florida, July 15, 1986

University of South Florida College of Medicine: Education Series for High School Students, "The Epidemic of AIDS", Tampa, Florida, November 9, 1986

The Florida Association of Blood Banks: "Look Back Notification and Counseling of Recipients", Tampa, Florida, December 5, 1986

Postgraduate Conference: Clinical Allergy and Immunology for the Practicing Physician, Sponsored by the University of South Florida College of Medicine, Division of Allergy and Immunology and the American Academy of Allergy and Immunology, "AIDS", Lake Buena Vista, Florida, December 11-13, 1986

Showa University Research Institute for Biomedicine in Florida, Research Conference on AIDS: "AIDS in Adults", St. Petersburg, Florida, January 24, 1987

The 43rd Annual Meeting of the American Academy of Allergy and Immunology: Workshop, "Gastrointestinal Diseases in AIDS", Washington, D.C., February 21, 1987

Orlando Regional Medical Center Conference: Infectious Diseases and Antibiotic Therapy '87, "The Acquired Immunodeficiency Syndrome 86", Lake Buena Vista, Florida, March 6, 1987

University of South Florida College of Medicine Introduction to Medicine Course: "Allergic Mechanisms" and "T & B Cell Function", Tampa, Florida, March 12, 1987

University of South Florida College of Medicine, Division of Infectious Diseases: "Immune Deficiency Disease and the Use of Gamma Globulin Therapy", Tampa, Florida, March 23, 1987

MKSAP VII Review Course: "Allergy and Immunology", Lake Buena Vista, Florida, April 30, 1987

Hillsborough Preschool Planning Committee: "HIV Infection in the Day Care and Preschool Setting", Tampa, Florida, June 3, 1987

The Partners in Perinatal Health: "Primer of Immunology for Pregnancy and Breastfeeding", Palm Beach Gardens, Florida, June 13, 1987

Department of Health and Rehabilitative Services: "AIDS", Tampa, Florida, June 16, 1987

Florida Association of Hospital Pharmacists: "HIV Infection Update for the Hospital Pharmacist", Sand Key, Florida, August 8, 1987

Postgraduate Conference: Clinical Allergy and Immunology for the Practicing Physician, Sponsored by the University of South Florida College of Medicine, Division of Allergy and Immunology and the American Academy of Allergy and Immunology "Vasculitis", Lake Buena Vista, Florida, December 3-5, 1987

University of South Florida College of Nursing: "Immunology and Immunodeficiency Diseases", Tampa, Florida, January 14, 1988

Medical Noon Conference: University of South Florida College of Medicine Department of Internal Medicine: "Vasculitis", Tampa, Florida, January 27, 1988

The 44th Annual Meeting of the American Academy of Allergy and Immunology Workshop, "Laboratory Evaluation of Adult Immunodeficiency Disease", Anaheim, California, February 1988

Morton Plant Hospital: "Vasculitis", Clearwater, Florida, March 29, 1988

XI Annual Problems in Rheumatology Postgraduate Course: "Treatment of HIV Disease and Associated Conditions", St. Petersburg Beach, Florida, March 1988

University of South Florida College of Medicine Pulmonary Teaching Conference: "Allergic Testing", Tampa, Florida, March 1988

Orlando Regional Medical Center Grand Rounds: "Vasculitis", Orlando, Florida, May 26, 1988

Florida Academy of Family Physicians: 48th Family Practice Weekend, "Update on Care of the AIDS Patient", Pensacola, Florida, August 12-14, 1988

University of South Florida College of Medicine Infectious Disease Conference: "Evaluation of Immunodeficiency Disease", Tampa, Florida, September, 1988

Postgraduate Conference: Cigna Healthcare Providers Clinical Update and Risk Management: "Diagnosis and Management of HIV Disease and Related Disorders", Orlando, Florida, October 1988

Methodist Hospital Staff Conference: "Asthma and the Late Phase Reaction", Jacksonville, Florida, November 17, 1988

Postgraduate Conference: Clinical Allergy and Immunology for the Practicing Physician, Sponsored by the University of South Florida College of Medicine, Division of Allergy and Immunology and the American Academy of Allergy and Immunology, "Clinical Evaluation of the Patient with Suspected Chronic Fatigue Syndrome (Chronic EB Virus Syndrome)", Lake Buena Vista, Florida, December 8-10, 1988

Southeast Regional Rheumatology Meeting: sponsored by the American College of Rheumatology: "Early Manifestations of HIV Disease", Tampa, Florida, December 1988

The 45th Annual Meeting of the American Academy of Allergy and Immunology: Workshop, "Laboratory Evaluation of Adult Immunodeficiency Disease", San Antonio, Texas, February 24- March 1, 1989

The 45th Annual Meeting of the American Academy of Allergy and Immunology: Course for allergy assistants: "Chronic Fatigue Syndrome", San Antonio, Texas, February 24 March 1, 1989

Postgraduate Conference: Annual Review of Internal Medicine, sponsored by Orlando Regional Medical Center and University of South Florida College of Medicine: "Diagnosis and Clinical Manifestations of HIV Disease" and "Treatment of HIV Disease and Associated Conditions", Lake Buena Vista, Florida, March 20, 1989

Florida West Coast Allergy and Immunology Journal Club: "Vasculitis", Tampa, Florida, April 25, 1989

Literature Review For ABAI Exam: "Immunologic Disorders", Schaumburg, Illinois, May 4-7, 1989

Sarasota Memorial Hospital Grand Rounds: "Allergy Evaluation and Testing", Sarasota, Florida, May 12, 1989

Southwest Florida Society of Hospital Pharmacists, Florida Society of Hospital Pharmacists, James A. Haley Veterans Administration and University of South Florida College of Medicine: HIV: Past, Present, and Future: "History of HIV Disease", Tampa, Florida, June 17, 1989

Humana Hospital-Brandon: CME Conference; "History of HIV Epidemic - Epidemiology and Virology", Brandon, Florida, October 28, 1989

Postgraduate Conference: Clinical Allergy and Immunology for the Practicing Physician, Sponsored by the University of South Florida College of Medicine, Division of Allergy and Immunology and the American Academy of Allergy and Immunology, "Laboratory Evaluation of the Immunodeficient Patient", and "AIDS – Clinical Presentation", Lake Buena Vista, Florida, November 30- December 2, 1989

University of Texas Health Science Center: Allergy & Immunology for the Primary Care Physician, "AIDS and HIV Related Disease Update", San Antonio, Texas, December 3, 1989

University of South Florida College of Medicine Introduction to Medicine Course: "Food, Drug and Hymenoptera Hypersensitivity", Tampa, Florida, January 10, 1990

James A. Haley Veterans' Hospital Ambulatory Care CME Meeting: "Immunology for the Practicing Physician", Tampa, Florida, January 22, 1990

Orlando Regional Workshop: "Comprehensive Management of HIV Disease," Lake Buena Vista, Florida, February 3-4, 1990

Pinellas County Pharmacists Society: "Sodium Cromolyn: Review of Pharmacology and Use in Mastocytosis", Largo, Florida, March 15, 1990

46th Annual Meeting, The American Academy of Allergy and Immunology: Educational Seminar on "Chronic Fatigue Syndrome", Baltimore, Maryland, March 23, 1990

Halifax Medical Center Medical Rounds: "The Inflammatory Component of Asthma", Daytona Beach, Florida, March 30, 1990

Orlando Regional Medical Center: "Epidemiology/Virology" and "Diagnosis and Treatment of HIV Infections/Vaccine Prospects", Orlando, Florida, March 31, 1990

Inverness Hospital Medical Staff Meeting: "Inflammatory Component of Asthma", Inverness, Florida, June 18, 1990

MKSAP VIII Review Course: "Allergy and Clinical Immunology", Lake Buena Vista, Florida, August 15, 1990

University of South Florida College of Medicine Medical Microbiology Course: "Autoimmune Disease", Tampa, Florida, September 6, 1990

James A. Haley Veterans Hospital Pharmacy Service; Biotechnology: The Wave of the Future: "The Immune System- an Overview", Tampa, Florida, September 8, 1990

Florida Hospital Noon Conference: "Asthma: Airway Inflammation and Its Importance and Treatment", Orlando, Florida, September 11, 1990

Florida Academy of Family Physicians: "AIDS Update", Jacksonville, Florida, October 27, 1990

Medical Staff Education Conference, Humana Hospital Brandon: "History of Epidemic, Epidemiology and Virology", Brandon, Florida, October 28, 1990

Medical Microbiology and Immunology for Medical Students, University of South Florida College of Medicine, "Anaphylaxis, Hymenoptera and Food Hypersensitivity", Tampa, Florida, November, 1990

Post Graduate Conference: Clinical Allergy and Immunology for the Practicing Physician, Sponsored by the University of South Florida College of Medicine, Division of Allergy and Immunology and the American Academy of Allergy and Immunology, "Rhinoscopy", Lake Buena Vista, Florida, December 6-8, 1990

Medical Staff Conference, Bayfront Hospital: "Inflammation in Asthma and Its Effect on Treatment", St. Petersburg, Florida, January 1991

47th Annual Meeting, The American Academy of Allergy and Immunology: Seminar, "Treatment of Rheumatic Diseases", San Francisco, California, March 3, 1991

Post Graduate Conference: Occupational Lung Disease: Asthma and Asbestosis, Sponsored by the University of South Florida College of Medicine and the American College of Chest Physicians, "Diagnosis History, Skin Tests, Serology, PFTs", Saddlebrook Golf and Tennis Resort, Wesley Chapel, Florida, June 13-15, 1991

American College of Physicians & Florida Internal Medicine Review Course: "T-Cells, B-Cells, Cytokines & the Concept of Immunologic Damage via Allergic Mechanisms", Walt Disney World, Florida, August 1991

University of South Florida Medicine Grand Rounds: "Alternative Treatments of Asthma", Tampa, Florida, October 3, 1991

Hillsborough County Osteopathic Medical Society, "NHBI Guidelines for the Diagnosis and Management of Asthma", Tampa, Florida, November 15, 1991

Post Graduate Conference: Clinical Allergy & Immunology for the Practicing Physician, Sponsored by the University of South Florida College of Medicine, Division of Allergy & Immunology and the American Academy of Allergy & Immunology, "Alternative Treatment of the Steroid Dependent Asthmatic", Lake Buena Vista, Florida, December 5, 1991

Sarasota Memorial Hospital Postgraduate Course: "Evaluation of the Patient with Recurrent Infection", Sarasota, Florida, January 10, 1992

Pinellas County Osteopathic Medical Society, "NHLBI Guidelines for the Diagnosis and Management of Asthma", Clearwater Beach, Florida, January 23, 1992

48th Annual Meeting, The American Academy of Allergy & Immunology, Allied Health Conference: "Exercise Induced Asthma", Orlando, Florida, March 8, 1992

48th Annual Meeting, The American Academy of Allergy & Immunology: Seminar, "Anti-inflammatory Therapy Viewed by the Allergist", Orlando, Florida, March 9, 1992

Holy Cross Hospital CME Conference: "Allergic Rhinitis-Pathophysiology and Treatment," Fort Lauderdale, Florida, April 25, 1992

Eastern Allergy Conference/Southwest Allergy Forum, Moderator of Session: "Animal and Chemical Sensitivity", New Orleans, Louisiana, April 30, 1992

Eastern Allergy Conference/Southwest Allergy Forum: "Alternative Treatments of Steroid Dependent Asthma", New Orleans, Louisiana, May 2, 1992

Oak Hill Hospital Medical Staff Conference: Department of Pharmacy, "Allergic Rhinitis: Pathophysiology and Treatment", Spring Hill, Florida, May 6, 1992

Texas Medical Association Annual Meeting: "Use of Steroids in Acute & Chronic Asthma", San Antonio, Texas, May 15, 1992

"Occupational Asthma: Isocyanates, Anhydrides, Formaldehyde and Pharmaceuticals", American College of Chest Physicians and the University of South Florida, Occupational Lung Disease CME Course, Saddle Brook, Wesley Chapel, Florida, June 1992

Post Graduate Conference: "The Problem of the Sick Building - Facts & Implications", Sponsored by the University of South Florida College of Medicine, Division of Allergy & Immunology and the American Academy of Allergy & Immunology, "Indoor Allergens", Lake Buena Vista, Florida, December 3, 1992

Fifteenth Annual Pulmonary Wintercourse, Florida Thoracic Society: "Hypersensitivity Pneumonitis", Orlando, Florida, February 12, 1993

North Broward Medical Center Staff Conference: "Allergies in the Immunocompromised Host", Ft. Lauderdale, Florida, February 25, 1993

49th Annual Meeting of the American Academy of Allergy and Immunology, Course Director, Fellows-in-Training Conference: "Connective Tissue Diseases", Chicago, Illinois, March 11, 1993

49th Annual Meeting of the American Academy of Allergy and Immunology, Fellow-in-Training Conference: "Autoimmune Cardiovascular Disease", Chicago, Illinois, March 11, 1993

49th Annual Meeting of the American Academy of Allergy and Immunology, Course Director, Indoor Allergen Course, Chicago, Illinois, March 12, 1993

49th Annual Meeting of the American Academy of Allergy and Immunology: Luncheon Seminar, "New Approaches to Asthma Therapy in the Adult", Chicago, Illinois, March 14, 1993

49th Annual Meeting of the American Academy of Allergy and Immunology: Breakfast Conference, "Treatment of Autoimmune Disease", Chicago, Illinois, March 16, 1993

Florida Academy of Physicians Assistants, Orlando Chapter: "NHLBI Guidelines for the Assessment and Management of Asthma", Orlando, Florida, March 25, 1993

The Eastern Allergy Society Meeting, 6th Annual Conference, Moderator: "Allergen Extracts: The Changing Picture", Bermuda, April 15-17, 1993

MKSAP IX Course, University of South Florida: "Lymphocyte Biology, Allergic Disease Mechanisms, Mast Cell and Eosinophil Biology and Immune Complex Disease", Lake Buena Vista, Florida, May 6, 1993

VA Clinic Orlando, VA Clinic Staff Conference: "Allergic and Non-Allergic Rhinitis", Orlando, Florida, May 19, 1993

University Community Hospital Staff Conference: "Rhinitis Pathophysiology, Diagnosis and Treatment", Tampa, Florida, May 20, 1993

MacDill AFB Hospital Staff Conference: "Update on Asthma Treatment", Tampa, Florida, June 3, 1993

American College of Chest Physicians and the University of South Florida, Occupational Lung Disease CME Course: "Building Related Illness: Specific Disorders", Saddlebrook Resort, Wesley Chapel, Florida, June 25, 1993

L.W. Blake Hospital: "Rhinitis: Pathogenesis, Differential Diagnosis and Therapy", Bradenton, Florida, July 12, 1993

Bayonet Point Hospital: "Rhinitis: Pathogenesis, Differential Diagnosis and Treatment", Hudson, Florida, September 1993

Polk County Association of Pharmacists: "Pathogenesis and Treatment of Asthma: Understanding the Inflammatory Component", Winter Haven, Florida, September 12, 1993

Florida Pharmacy Association, "Management of Asthma", Winter Haven, Florida, September 16, 1993

American College of Chest Physicians Annual Meeting: "Sick Building Syndrome, Chronic Fatigue and Environmental Illness", Orlando, Florida, October 1993

American College of Chest Physicians Annual Meeting: Distinguished Lecturer, "Pathogenesis of Asthma", Orlando, Florida, October 1993

American Academy of Allergy and Immunology Education Trust Fund Fall Update and Benefit: "Alternative Therapy for Severe Asthma", New York, New York, October 1993

American College of Allergy Annual Meeting: Breakfast Seminar, "Alternative Therapy for Severe Glucocorticoid Dependent Asthma", Atlanta, Georgia, October 7, 1993

Wisconsin Allergy Society: "Alternative Therapy for Glucocorticoid Dependent Asthma," Milwaukee, Wisconsin, October 30, 1993

Post Graduate Conference: "Clinical Allergy and Immunology for the Practicing Physician", Sponsored by the University of South Florida College of Medicine, Division of Allergy & Immunology and the American Academy of Allergy & Immunology, "Basic Immunology to Explain Why Immunodeficiency Patients Become Infected", Lake Buena Vista, Florida, Dec. 2-4, 1993

American Academy of Allergy and Immunology 50th Annual Meeting: Luncheon Seminar, "Pathogenesis and Treatment of Autoimmune Disease", Anaheim, California, March 1994

American Academy of Allergy and Immunology, Autumn Update: Lecture, "What is a practical approach to the Management of Chronic Urticaria?" New York, NY, October 13, 1994

88th Annual Scientific Assembly of the Southern Medical Association: Lecture, "Treatment of Urticaria," Orlando, Florida, November 2, 1994
88th Annual Scientific Assembly of the Southern Medical Association: Lecture, "Latex Allergy", Orlando, Florida, November 3, 1994

American College of Allergy and Immunology Annual Meeting: Lecture, "Alternative Treatment of Steroid-Dependent Asthma", San Francisco, California, November 7, 1994

Lecturer, The University of South Florida College of Medicine, Division of Allergy and Immunology Conference: Current Aspects of Asthma and New Horizons, St. Petersburg, Florida, December 10, 1994, "Steroid Resistant Asthma - Alternative Treatments."

Florida Thoracic Society 17th Annual Winter Meeting: Lecture, "Latex Allergy," Lake Buena Vista, Florida, February 16, 1995

American Academy of Allergy and Immunology Annual Meeting: Lecture, "The Clinical Use of Anti-Inflammatory Therapies," February 28, 1995

Indoor Air Quality Symposia: Lecture, "Building Related Medical Illness," St. Petersburg, Florida, March 23, 1995

Florida Academy of Family Practice, 17th Annual Practice Review: Lectures, "Food Allergy," "Treatment of Asthma: Use and Misuse of Inhaled Glucocorticoids", Clearwater, Florida, March 29, 1995

Grand Rounds, University of North Carolina at Greenville Medical School: Lecture, "Alternative Therapy of Steroid Dependent Asthma," Greenville, North Carolina, April 6, 1995

Research Conference, University of North Carolina at Greenville Medical School, Division of Allergy and Immunology: Lecture, "Indoor Environment: Identification and Measurement of Allergens and Implications for Respiratory Disease," Greenville, North Carolina, April 6, 1995

St. Petersburg Medical Clinic: Lecture, "Pathogenesis of Asthma: Implications for Therapy", St. Petersburg, Florida, April 7, 1995

Medical Grand Rounds, Citrus Memorial Hospital: Lecture, "Evaluation and Treatment of Rhinitis", Inverness, Florida, April 18, 1995

Eastern Allergy Conference: Lecture, "Nutrition and the Immune System", Naples, Florida, April 29, 1995

Florida Nurse Practitioner Association: Lecture, "Treatment of Childhood, Adolescent and Adult Asthma," Clearwater, Florida, May 20, 1995

Georgia Lung Association, Summer Asthma Camp Fund Raiser:
Lecture, "Role of Immunotherapy in Asthma", Atlanta, Georgia, May 25,
1995

Dade County Allergy Society Journal Club sponsored by Schering/Key:
Lecture, "Review of the Risks and Benefits of Inhaled Steroids," Miami,
Florida, June 19, 1995

Seminar sponsored by Marion Merrell Dow: Lecture, "Treatment of
Rhinitis: Comparison of antihistamines therapy and inhaled steroids",
Winter Park, Florida, June 29, 1995

Lloyd V. Crawford, M.D. Symposium on Allergy and Clinical
Immunology: Lecture, "Alternative Treatment of Steroid Dependent
Asthma", Memphis, Tennessee, July 14-16, 1995

St. Pete Medical Clinic: Lecture, "New Advances in Asthma Treatment,"
St. Petersburg, Florida, July 28, 1995

National Leaders Conference on Asthma, sponsored by The Institute for
Medical Studies: Lectures, "Role of Bronchodilators in the Treatment of
Asthma" and "Compliance Issues in the Management of Asthma",
Chicago, IL, August 4-6, 1995

Florida Nurse Practitioner Association: Lecture, "Asthma Update:
Treatment in the 90's", Orlando, Florida, August 17, 1995.

Gastroenterology Group of South Florida, Monthly Medical Forum,
sponsored by Marion Merrell Dow: Lecture, "Treatment of Allergic
Rhinitis - Antihistamine Therapy versus inhaled glucocorticoid". Miami,
Florida, September 13, 1995

Marshfield Clinic, Grand Rounds, sponsored by Astra Pharmaceuticals:
lecture, "Sick Building Syndrome and Building Related Complaints",
Marshfield, Wisconsin, September 21, 1995

ASTRA Medical Workshops - Case Study: Lecture, "Evaluation of
Rhinitis - Case Study", Philadelphia, Pennsylvania, September 26, 1995

The University of Medicine and Dentistry of New Jersey, seminar
sponsored by Rhône-Poulenc Rorer Pharmaceuticals, Inc: Lecture, "The
Inflammatory Component of Asthma", Newark, New Jersey, September
28, 1995

American Lung Association, Florida Chapter: Lecture, "Case Study on
Asthma" Tallahassee, Florida, October 5, 1995

Ft. Lauderdale Allergy Journal Club - Case Discussions: Lecture, "Case
Presentations - Asthma", Ft. Lauderdale, Florida, October 13, 1995

The Phillipian Medical Society, seminar sponsored by Fisons: lecture,
"Diagnosis and Management of Asthma", Tampa, Florida, October 14,
1995

Miami Children's Hospital: lecture, "New Treatments for Asthma", Miami,
Florida, October 20, 1995

Asthma Update: New Horizons in Understanding and Managing Asthma sponsored by Access Medical Group, Ltd.: lectures, "Systemic

Corticosteroids: Strategies for Effective use in Asthma" and "Steroid Sparing Medication", Atlanta, Georgia, November 4, 1995

Georgia Academy of Family Physicians, 47th Annual Scientific Assembly and Exhibition: lecture, "Asthma in the Family Practice", Atlanta, Georgia, November 9-11, 1995

Post Graduate Conference: "Clinical Allergy and Immunology for the Practicing Physician", Sponsored by the University of South Florida College of Medicine, Division of Allergy & Immunology and the American Academy of Allergy & Immunology, "Allergic Rhinitis, Pathophysiology and Clinical Presentation" and "Systemic Diseases of the Upper Airway and Sinuses", Lake Buena Vista, Florida, November 30-December 2, 1995

St. Joseph Hospital, Department of Family Practice: lecture, "Differential Diagnosis and Treatment of Rhinitis", Tampa, Florida, February 22, 1996

South Florida Allergy Journal Club: lecture, "Literature Review on Asthma and Immunotherapy", Coral Gables, Florida, February 26, 1996

Sarasota Physician Group, sponsored by Pfizer: lecture, "Differential Diagnosis and Treatment of Rhinitis", Tampa, Florida, February 27, 1996

Moderator, Continuing Medical Education Program, "The Chronic Airway Disease Connection: Redefining Rhinitis", sponsored by the Office of Continuing Medical Education, UCLA School of Medicine, Charlotte, North Carolina, March 2, 1996

Oak Hill Hospital staff, sponsored by Pfizer: lecture, "Differential Diagnosis and Treatment of Rhinitis", Spring Hill, Florida, March 12, 1996

American Academy of Allergy, Asthma and Immunology 52nd Annual Meeting:

1. Workshop, Building and Home-Related Complaints and Illnesses (Sick Building Syndrome), "A General Overview and Definition of Terms".
2. Workshop, Factors that Exacerbate Asthma, "Steroid Resistant Asthma", New Orleans, Louisiana, March 15 - 20, 1996

Seminar, Family Practitioners Group, sponsored by Rhone-Poulenc/Rorer: Lecture, "Problem Based Learning: Rhinosinusitis", Tampa, Florida, March 25, 1996

Symposium, "New Directions in the Management of Asthma and Allergy", sponsored by the University of Wisconsin Medical School in association with the National Institute of Allergy and Infectious Diseases (NIAID): Lecture, "Differential Diagnosis and Treatment of Rhinitis Syndromes", Ponte Vedra Beach, Florida, March 30, 1996

National Association of Indoor Environmental Professionals (NAIEP), 3rd Annual Premier IAQ Symposium '96, supported by University of South Florida: Lectures, "Building Related Disease and Illness" and "Legionaire's Disease", Orlando, Florida, April 11, 1996

American Lung Association, Pulmonary Symposium sponsored by Fisons Pharmaceuticals: lectures, 1) Epidemiology and Mortality of Asthma, and 2) Two lectures on "Evaluation of Patient with Cough", Tallahassee, Florida, April 12, 1996

Nurse Practitioner Associates for Continuing Education (NPACE), National Primary Care Conference: lecture, "Assessment and Management of Rhinitis and Sinusitis", Orlando, Florida, April 17-20, 1996

Seminar, American Lung Association of Southeast Florida: Lecture, "An Update on Newer Treatments of Asthma", West Palm Beach, Florida, April 24, 1996

CME Speaker program, Disney/Family Day Program, sponsored by Marion Merrill Dow, April 26, 1997, Orlando, Florida, "Differential Diagnosis and Treatment of Rhinitis".

1997 American Occupational Health Conference, sponsored by the American College of Occupational and Environmental Medicine, Orlando, Florida, May 9-16, 1997, "Vocal Cord Dysfunction".

Texas Medical Association, 1996 Annual Session, "Interlink for Patient Care": Lectures, "Urticaria: The Common but Difficult to Treat Malady" and "Practical Encounters in Autoimmune Disorders: A Step-by-Step Approach to an Autoimmune Workup", San Antonio, Texas, May 11, 1996

Florida Allergy, Asthma & Immunology Society Annual Meeting, "Management Dilemma: Nuts and Bolts for the Practicing Allergist and Immunologist": Lecture, "Intravenous Immunoglobulin as an Immunomodulator Therapy: Indications for Use and Protocol for Administration", Jupiter Beach, Florida, June 7-9, 1996

CME Meeting, Continuing Education Inc., "Primary Care 1996": Lectures, "Asthma" and "Advances in Treatment of Allergy", Litchfield Beach, South Carolina, August 3, 1996

Conference, Nurses Practitioners Group, sponsored by Boehringer Ingelheim: Lecture, "Management of Rhinitis", Knoxville, Tennessee, August 19, 1996

Conference, sponsored by Rhone Poulenc Rorer: Lecture, "Allergic Rhinitis", St. Lucie, Florida, September 14, 1996

Conference, General Practitioners Group, sponsored by Hoechst Marion & Roussel: Lecture, "Differential Diagnosis and Treatment of Rhinitis", Leesburg, Florida, September 25, 1996

University Hospital Staff Conference, sponsored by Boehringer Ingelheim: Lecture, "Management of Rhinitis", Augusta, Georgia, September 26, 1996

2nd Annual Miami Children's Allergy Conference, sponsored by Asthma and Allergy Associates of Florida: Lecture, "Systemic Disease that may present as Chronic Upper Airway Disease", Coral Gables, Florida, October 18-19, 1996

Methodist Hospital Grand Rounds, sponsored by Rhone Poulenc Rorer: Lecture, "Management of Allergic Rhinitis", Indianapolis, Indiana, October 31, 1996

Symposium, sponsored by Glaxo Wellcome, Inc: Lecture, "Role of Topical Steroid Treatment in Asthma", Tampa, Florida, November 2, 1996

Conference, sponsored by Rhone Poulenc Rorer: Lecture, "Treatment of Rhinitis", Tampa, Florida, November 7, 1996

Conference, sponsored by Zeneca: Lecture, "Anti-inflammatory Treatment of Asthma", Tampa, Florida, November 19, 1996

Conference, St. Pete Medical Clinic, sponsored by Hoechst, Marion & Roussel: Lecture, "Rhinitis", St. Petersburg, Florida, December 13, 1996

Asthma and Allergy Foundation of America, Florida Chapter, and The University of South Florida College of Medicine: Asthma, Allergy and Immunology Seminar: Lecture, "AIDS: Pathogenesis and Diagnosis", Tampa, Florida, January 18, 1997

Speaker program sponsored by Zeneca Pharmaceuticals: Lecture, Orlando, Florida, February 6, 1997

The University Club, The University of Tampa, Tampa, Florida, February 19, 1997

Speaker program at Bon Secours Hospital, Venice, Florida, February 20, 1997

New Port Richey Columbia Hospital, medical noon conference: Lecture, "Evaluation and Treatment of Rhinitis", New Port Richey, Florida, February 27, 1997

Educational program sponsored by the American College of Physicians, Philadelphia, Pennsylvania, February 28, 1997

Speaker program sponsored by Abbott Laboratories: Lecture, "The Role of Leukotriene Inhibitors in Asthma Therapy", Birmingham, Alabama, March 2, 1997

Speaker program (local physicians), sponsored by Zeneca Pharmaceuticals: Lecture, "Asthma Therapy: Overview of Anti-Inflammatory Therapy", Tampa, Florida, March 4, 1997

Conjoint Committee/Board Review, sponsored by the American College of Allergy, Asthma & Immunology and the American Academy of Allergy, Asthma and Immunology: Moderator, "Clinical Immunology II" session; Lecture, "Autoimmune/Immunologically-Mediated Diseases of Eyes, Endocrine Glands, Kidney, and Reproductive Organs, Anti-Inflammatory Drugs", Chicago, Illinois, March 6-9, 1997

Volusia County Internal Medicine Society: Lecture, "Evaluation and RX of Anaphylaxis and Anaphylactic Shock", Daytona, Florida, March 13, 1997

Daytona Halifax Medical Center, Medical Grand Rounds: Lecture, "Overview of Asthma Therapy", Daytona, Florida, March 14, 1997

Speaker program (local physicians), sponsored by Hoechst Marion Roussel: Lecture, "Anti-Inflammatory Effects of Antihistamine Therapy", Jacksonville, Florida, March 14, 1997

Speaker program (local physicians), sponsored by Hoechst Marion Roussel: Lecture, "Evaluation and RX of Rhinitis", Jacksonville, Florida, March 15, 1997

Speaker program (local physicians), sponsored by Abbott Laboratories: Lecture, "Leukotriene Inhibitor Therapy of Asthma", Tampa, Florida, March 20, 1997

American College of Physicians Annual Meeting: Lecture, "Literature Review Allergy/Immunology", Philadelphia, Pennsylvania, March 22, 1997

Jaine Medical Society, Lecture, "Evaluation of Rx of Rhinitis", West Palm Beach, Florida, March 23, 1997

Florida Medical Clinic: Lecture, "Case Studies", Zephyrhills, Florida, March 27, 1997

American Lung Association Pulmonary Conference: Lecture, "Sick Building Syndrome and Inhaled Corticosteroid Therapy for Asthma", Tallahassee, Florida, April 4, 1997

20th Annual Gold Coast Conference - Session on Medicine, sponsored by Intercoastal Health Systems, G.S. Medical Center: Lecture, "Bronchial Asthma", West Palm Beach, Florida, April 9, 1997

Florida Academy of Physician Assistants Meeting, sponsored by Boehringer Ingelheim Pharmaceuticals: Lecture, "Allergic Rhinitis and Rhinorrhea", Orlando, Florida, April 10, 1997

Speaker program sponsored by Abbott Laboratories: Lecture, "Zyflo", Tampa, Florida, April 11, 1997

Speaker program sponsored by Astra USA, Sanibel Harbour and Resort Spa, Sanibel Island, Florida, April 11, 1997

Speaker program sponsored by Louise Von Hess Foundation, Lancaster, Pennsylvania, April 16-17, 1997

CME Dinner Program sponsored by Rhone-Poulenc Rorer: Lecture, "Case Based Discussion on Asthma", West Palm Beach, Florida, April 23, 1997

CME speaker program, Disney/Family Day Program, sponsored by Marion Merrill Dow: Lecture, "Differential Diagnosis and Treatment of Rhinitis", Orlando, Florida, April 26, 1997

Asthma Update '97, sponsored by the University of South Florida College of Medicine: Course Director and presentation, "Pathophysiology of Asthma and Treatment with Immunotherapy and Environmental Control", Tarpon Springs, Florida, May 10, 1997

Speaker program sponsored by Boehringer Ingelheim: "Allergic Rhinitis", MacDill Air Force Base, Tampa, Florida, May 15, 1997

Speaker program sponsored by Rhone Poulenc Rorer: "Case Management Approach dealing with Asthma", St. Petersburg Medical Clinic, St. Petersburg, Florida, June 20, 1997

CME speaker program sponsored by Wallace Laboratories: Lecture, "Overview of the Different Antihistamines", Moffitt Cancer Center, Tampa, Florida, June 23, 1997

Speaker program sponsored by Clinical Communications, Inc., Boca Raton Community Hospital: Lecture, "NHLBI Guidelines for the Treatment of Asthma", Boca Raton, Florida, April 21, 1998

Grand Rounds, sponsored by Astra, Memorial Hospital: Lecture, "NHLBI Guidelines for the Treatment of Asthma", Hollywood, Florida, April 22, 1998

Grand Rounds, Columbia Community Hospital: Lecture, "Management of Asthma", New Port Richey, Florida, April 23, 1998

Grand Rounds, sponsored by Astra, Memorial Hospital: Lecture, "NHLBI Guidelines for the Treatment of Asthma", Hollywood, Florida, April 22, 1998

Grand Rounds, Lecture, "Asthma Management", Ft. Lauderdale, Florida, May 13, 1998

Grand Rounds, sponsored by Astra, Columbia Kendall Medical: Lecture, "Rhinocort", Miami, Florida, May 15, 1998

Grand Rounds, Delray Beach Medical Center: Lecture, "New Approaches for the Diagnosis and Management of Asthma", Delray Beach, Florida, June 4, 1998

Martin Memorial Hospital: Lecture, "New Approaches for the Diagnosis and Management of Asthma", Stuart, Florida, July 16, 1998

Primary Care Residents Conference on Allergy, Asthma & Immunology, sponsored by Florida Allergy, Asthma & Immunology Society, University of South Florida and All Children's Hospital: Lecture, "Urticaria: Evaluation and Treatment of a Frustrating Condition", Orlando, Florida, September 26, 1998

Pittsburgh Allergy Society Meeting: Lecture, "Osteoporosis and Inhaled Steroids in Asthma", Pittsburgh, Pennsylvania, September 28, 1998

Grand Rounds, University of Pittsburgh: Lecture, "Treatment Options for Allergic Rhinitis - Is Anything New?", Pittsburgh, Pennsylvania, September 29, 1998

Visiting Professor, University of Mississippi: Lectures, "Relationship of Upper Airway Disease and Asthma" and "Treatment of Severe Steroid Dependent Asthma" (Grand Rounds), Jackson, Mississippi, October 12-13, 1998

Fourth Annual Miami Children's Hospital Allergy Conference: Lectures, "Insect Sting Allergy" and "Treating the Difficult Asthmatic Patient", Miami, Florida, October 23, 1998

Lecture, Evaluation and Treatment of Asthma - Comparison of Inhaled Corticosteroids", West Palm Beach, Florida, October 24, 1998

Lecture, "Treatment of Asthma", sponsored by Pharmedica, Inc., Lake Wales, Florida, November 10, 1998

Lecture, "Treatment Choices in Rhinitis: Review of Comparison of Azelastine and Beclomethasone", sponsored by Wallace Laboratories, Lake Buena Vista, Florida, November 14, 1998

Lecture, "The Connection between Upper Airway Disease and Asthma", sponsored by Schering, Inc., Orlando, Florida, November 14, 1998

Arnold Palmer Hospital Housestaff meeting: Lecture, "Problem Based Learning - Treatment of Asthma", sponsored by Blanchard Bedford, Inc., Orlando, Florida, November 16, 1998

Lecture, Management of Severe Asthma", sponsored by Astra Pharmaceuticals, Ocala, Florida, November 18, 1998

Orlando Allergy Society: Lecture, "Hurdles to Overcome for Optimal Asthma Care", Orlando, Florida, November 19, 1998

Lecture, Asthma Therapy: Issues in Inhaled Drug Therapy", sponsored by Pharmedica, Inc., Tampa, Florida, December 18, 1998

All Children's Hospital: Lecture, "Overview of Osteoporosis for the Allergist", January 6, 1999

Academy of Family Practice Annual Meeting: Lecture, "Issues of Allergy for the Family Physician", Orlando, Florida, January 31, 1999

St. Joseph's Hospital Staff Conference: "Treatment Choices in Asthma", Tampa, Florida, February 17, 1999

James A. Haley V.A Hospital, Housestaff Conference: Lecture, "Overview of Immunodeficiency", Tampa, Florida, February 24, 1999

Lecture, "Treatment of Asthma", sponsored by Merck, Inc., Citrus Hills, Florida, March 19, 1999

1999 Internal Medicine Staff Meeting, Roper Hospital: Lecture, "Diagnosis and Management of Allergic Rhinitis", Charleston, South Carolina, April 8, 1999

University of Texas Medical Center: Lecture, "Clinical Review: Nasal Polyposis", Knoxville, Tennessee, April 20, 1999

Cleveland Clinic: Lecture, "Review of Immunotherapy", Ft. Lauderdale, Florida, April 21, 1999

St. Petersburg Medical Clinic: Lecture, "Rhinitis". St. Petersburg, Florida, April 30, 1999

Florida Asthma Allergy and Immunology Society 1999 Annual Meeting: Lecture, "Allergists and Osteoporosis: Important Considerations", Bermuda, June 19, 1999

Visiting Professor, Grand Rounds, University of Wisconsin: Lecture, "Treatment of Asthma and Osteoporosis", Madison, Wisconsin, October 13, 2000

Wisconsin Allergy Society Meeting: "Non-allergic Rhinitis", Madison, Wisconsin, October 14, 2000

American College of Allergy, Asthma and Immunology Annual Meeting: "Pathogenesis of Perennial Non-Allergic Rhinitis", Seattle, Washington, November 2000

Regional Conference, International meetings and Science: "Relationship Between Upper and Lower Airway Disease", St. Louis, Missouri, April 2001

Greater Miami Allergy and Immunology Journal Club, Review of European Asthma and Allergology meeting in Berlin, Miami, Florida, June 15, 2001

Greater Miami Allergy and Immunology Journal Club, Role of Long-Acting Beta-Agonists Therapy in Asthma Management, Miami Beach, Florida, August 27, 2001

Florida Allergy, Asthma and Immunology Society, Annual Resident, Conference: "Urticaria" and "Evaluation of Immunodeficiency Workshop", Orlando, Florida, September 8, 2001

Pathology lecture to 2nd year medical students, "Immunodeficiency" University of South Florida College of Medicine, Tampa, Florida, September 7, 2001

University of South Florida CME cruise: "Asthma, Immunodeficiency, Vasculitis", September 30- October 6, 2001

Tampa General Hospital Pulmonary conference: "GERD and Upper Airway Disease", November 8, 2001

Broward County Allergy Journal Club, "The Role of Long-acting Beta-Agonists in Asthma Management, Palm Beach, Florida, December 1-4, 2001

Immunologic Education Institute of New England Lecture Series: "Allergens and Allergy Avoidance", Sacramento, California, December 1, 2001 and Anaheim, California, Dec 2, 2001

Immunology Education Institute of New England, Allergens and Allergen Avoidance, April 6, 2003, Cincinnati, Ohio

USF/All Children's Hospital Teaching Conference, Churg-Strauss Vasculitis and Hypersensitivity Vasculitis, April 23, 2003, St. Petersburg, FL

National Medical Management Association Meeting, "The Role of Monoclonal Anti-IgE in the Management of Severe Asthma", May 2, 2003, Orlando, Florida

Pri-Med Update for the General Physician, "Management of Allergic Rhinitis", May 6, 2003, Tampa, Florida

Pri-Med Update for the General Physician, "Management of Allergic Rhinitis", May 9, 2003, Houston, TX

National Allergy/Immunology and Pulmonary Residents Conference, "Management of Anaphylaxis", May 14, 2003, Seattle, WA

Immunology Education Institute of New England, "Allergens and Allergen Avoidance", May 18, 2003, Miami Beach, FL

Pri-Med Update for the General Physician, "Management of Allergic Rhinitis", May 29, 2003, Dallas, TX

Winter Meeting, Pittsburgh Allergy Society, "New Developments in the Treatment of Asthma", Dec 3, 2004, Pittsburgh, PA

American Thoracic Society/AAAAI National Fellowship Conference, Anaphylaxis: Diagnosis and Treatment, May 19, 2005, San Diego, CA

Florida Academy of Family Physicians' Annual Meeting, Asthma Update, May 21, 2005, Orlando, Florida

Baptist Hospital Annual CME Conference, Asthma Update, June 24, 2005, Duck Key, Florida

Tennessee Allergy Asthma and Immunology Society Annual Meeting, The Role of Anti-IgE in the Treatment of Asthma/ RSL and the Growth of State Allergy Society, July 9, 2005, Blackberry Farm, Tennessee

USF/Tampa General Hospital Teaching Conference, "Assessment and Management of Anaphylaxis", May 30, 2003, Tampa, FL

Immunology Education Institute of New England, "Allergens and Allergen Avoidance", May 31, 2003, Dallas, TX

Immunology Education Institute of New England, "Allergens and Allergen Avoidance", June 1, 2003, Austin, TX

Florida Allergy Asthma and Immunology Society Annual Meeting, "Role of Omalizumab in the Management of Moderately Severe to Severe Asthma", June 15, 2003, Orlando, FL

University of South Florida, 6th Symposium on Bioethics, Volunteerism, and Drug Development, June 16, 2003, Tampa, FL

Tampa Bay Nurse Practitioner/Physician Assistant Quaterly CME Meeting, "Case Discussion of Allergic Rhinitis", June 18, 2003, Tampa, FL

National Meeting of Indian AAPI, "Management of Asthma" and "Assessment and Management of Rhinitis", June 19-21, 2003, Orlando, FL

Consultant Meeting, Blue Cross/Blue Shield of South Carolina, "Cost/Benefit Analysis of Omalizumab Therapy for Severe or Moderately Severe Asthma", June 27, 2003, Columbia, SC

National Respiratory Consultants Meeting, Genentech and Novartis Pharmaceutical, July 18-20, 2003, Los Angeles, CA

Medical Student Lecture, "Clinical Evaluation of Immunologic Function", Aug 20, 2003, USF, Tampa, FL

Palm Beach Allergy/Immunology Journal Club, "Omalizumab in the Treatment of Moderate to Severe Asthma", September 5, 2003, Boca Raton, FL

USF/Tampa General Teaching Conference, "Asthma Management", September 10, 2003, Tampa, FL

Pri-Med CME Conference for General Physicians, "Assessment and Management of Allergic Rhinitis, September 11, 2003, Detroit, MI

Jacksonville Allergy/Immunology Journal Club, "Role of Omalizumab in the Management of Asthma", September 12, 2003, Jacksonville, FL

Grand Rounds, Blake General Hospital, "Assessment and Management of Allergic Rhinitis", September 19, 2003, Bradenton, FL

Florida Allergy Asthma and Immunology Society, Primary Care Residents' Conference, Assessment and Management of Rhinitis and Sinusitis, Sept 20-22, 2003, Orlando, Florida

USF/VA Teaching Conference, "Assessment and Management of Anaphylaxis", September 24, 2003, Tampa, FL

Southeast Allergy Asthma and Immunology Society Annual Meeting, "GERD and Upper Airway Complaints", October 16-18, 2003, Wild Dunes, South Carolina

Miami Lakes Allergy/Immunology Journal Club, "Antibiotic Use in Era of Bacterial Resistance", October 27, 2003, Miami, FL

Miami Childrens Hospital, Grand Rounds, Update on Asthma and Allergic Diseases in Children, Nov, 2003

South Florida Allergy Journal Club, "The Role of Xolair in the Treatment of Allergic Asthma", Jan 26, 2004, Palm Beach, Florida

Grand Rounds, Miami Children's Hospital, "Asthma and Allergy Update 2003", November 21, 2003, Miami, FL

Greater Miami Allergy/Immunology Journal Club, "Role of Omalizumab in the Management of Asthma and Review of ACAAI Annual Meeting", November 24, 2003, Miami Beach, FL

USF Medical Student, Clinical Correlation, "Allergy and Allergic Rhinitis", November 24, 2003, USF, Tampa, FL

USF Medical Student, Physical Examination Workshop, "Examination of the Chest and Lungs", December 5, 2003, Tampa, FL

39th Annual Pediatric Update Course "Perspectives in Pediatrics", Miami Children's Hospital, Asthma Workshop and Evaluation and Management of Rhinitis. Feb 1-4, 2004, Miami Beach, Florida

USF/All Children's Hospital Allergy and Immunology Teaching Conference, Mediators of Rhinitis, February 18, 2004, St. Petersburg, Florida

USF/James A. Haley VA Hospital Teaching Conference, "Assessment and Treatment of Anaphylaxis", February 25, 2004, Tampa, Florida

60th AAAAI Annual Meeting, "Osteoporosis for the Allergist/Immunologist", March 20, 2004, San Francisco, California

60th AAAAI Annual Meeting, "Maintenance of Certification for the Allergist/Immunologist: Town Hall Meeting", March 21, 2004, San Francisco, California

60th AAAAI Annual Meeting, "Pathogenesis of Osteoporosis", March 23, 2004, San Francisco, California

USF Premedical Student Symposia, Key note speaker, "Preparing for Medical School Now", March 27, 2004, Tampa, Florida

Jacksonville Allergy Journal Club, "Review of the AAAAI Annual Meeting", March 30, 2004, Jacksonville, Florida

28th Annual Internal Medicine Conference, Orlando Regional Healthcare, "Allergic Problems in Primary Care", April 2, 2004, Orlando, Florida

Regional Respiratory Consultant Meeting, Aventis Pharmaceutical, "Antihistamine Therapy of Allergic Rhinitis", "Topical Nasal Corticosteroid Therapy of Allergic Rhinitis", April 7, 2004, Tampa, Florida

University Community Hospital, Health Source Community Lecture Series, "Allergic Diseases and Asthma", April 7, 2004, Tampa, Florida

Immunology Educational Institute of New England, "Pathophysiology of IgE-Mediated Asthma", April 27, 2004, Orlando, Florida

USF/Tampa General Teaching Conference, "Evaluation and Treatment of Rhinitis", May 5, 2004, Tampa, Florida

National Allergy/Immunology & Pulmonary Residents Conference, "Evaluation and Treatment of Anaphylaxis", May 20, 2004, Orlando, Florida

Immunology Educational Institute of New England, "Risk/Benefit Analysis of Current Treatments of Asthma", May 25, 2004, Tampa, Florida

National Allergist Advisory Board, Aug 5-8, 2004, Kohler, Wisconsin

Practice Parameters Consensus Workshop, Aug 12-14, 2004, Napa, California

Florida Allergy Asthma and Immunology Society, Annual Residents Conference for Primary Care Residents, Evaluation and Management of Asthma, September 11-12, 2004, Orlando, Florida.

Visiting Professor, Pulmonary/Allergy Divisions, Duke University,
October 20, 2004, Durham, North Carolina

American College of Allergy Asthma and Immunology Annual Meeting,
Maintenance of Certification, November, 2004

Dallas/Fort Worth Allergy/Immunology Journal Club, GERD and Upper
Airway Complaints, Dallas, Texas, December 2, 2004.

University of Pittsburgh, Winter Allergy Meeting, New Therapeutics for
Management of Asthma, Pittsburg, PA, December 3, 2004.

61st Annual Meeting of AAAAI, "Osteoporosis for the
Allergist/Immunologist", March 2005, San Francisco, CA

61st Annual Meeting of AAAAI, "Medical Liability in Allergy/Immunology",
March 2005, San Francisco, CA

61st Annual Meeting of AAAAI, "Maintenance of Certification for
Allergy/Immunology, March 2005, San Francisco, CA

South Carolina Allergy Asthma and Immunology Society, The Role of
Omalizumab in the Management of Asthma 2005/ RSL and the Growth of
Local and State Allergy Societies, Charleston, SC, April 2005.

Florida Academy of Family Physicians Annual Meeting, Allergy and
Asthma, Orlando, May 21, 2005

Baptist Health South Florida Fourth Annual Primary Care Focus
Symposium, Asthma Update, Duck Key, FL, June 26, 2005

Combined Tennessee and Kentucky Allergy Asthma and Immunology
Society Meeting, Anti-IgE Therapy for Allergic Asthma and Rhinitis and
Region 3 Report for RSL and Maintenance of Certification; Blackberry Farm,
TN, July 9-10, 2005

62nd Annual Meeting of AAAAI, "Osteoporosis for the Allergist/Immunologist",
March 2006, Miami, FL

AAAAI/ACAAI Conjoint Board Review, Insect Allergy, April 6-9, 2006,
Chicago, FL

Kentucky Allergy and Blue Grass Allergy Asthma and Immunology Society,
Allergic Rhinitis: Is there anything new?/ Allergic Rhinitis: Can we do better?/
RSL and the State Society, Lexington, April 15, 2006

AAAAI Annual Meeting, Osteoporosis Evaluation and Treatment for the
Allergist, March 5, 2006, Miami, FL

AAAAI/ACAAI National Board Review, Insect Allergy, April 8, 2006,
Chicago, IL

Physicians for Compassionate Care, Perspectives on Application to
Medical School, April 21, 2006, Melbourne, FL

Bluegrass Allergy Association and Kentucky Allergy Asthma and
Immunology Society Annual Meeting, New Developments in Rhinitis;
Assessment of Rhinitis in Primary Care, April 22, 2006, Lexington,
Kentucky

American Thoracic Society/AAAAI National Fellowship Program,
Anaphylaxis: Assessment and Treatment, May 16, 2006, San Diego, CA

Tennessee Allergy/Immunology Society Meeting, Anti-IgE Therapy in
Asthma/ RSL and Building a State Allergy Society, Chattanooga, TN,
July 21, 2006

Presentation to SNMA Chapter, Career in Allergy/Immunology, Emory
University Medical School, Sept. 26, 2006, Atlanta, GA

CME Conference, Allergy/Immunology Update, Osteoporosis and the
Treatment of Asthma and COPD, University of South Florida, Tampa,
Florida, Oct 2006.

Presentation to SNMA Chapter, Career in Allergy/Immunology, Florida
State University Medical School, October 22, 2006, Tallahassee, Florida

Presentation to Preprofessional Minority Student Association, University
of Florida, October 22, 2006, Gainesville, Florida

Sixth University of South Florida Symposium on Bioethics, Volunteerism,
Drugs, Devices, Patents Diligence in the 21st Century, "Payment to
Healthy Volunteers: Is There a Guinea Pig Subculture?" Carl Elliott,
M.D., Ph.D., Panel Discussant, Nov 30, 2006, Tampa, FL

Visiting Professor ACAAI, South Dakota School of Medicine; Grand
Rounds: GERD and Upper Airway Symptoms, Feb 6, 2007, Sioux Falls,
SD

South Carolina Allergy Society Annual Meeting, Anti-IgE Therapy in
Severe Asthma: ART and Importance to the South Carolina Society,
March 24, 25 2007, Charleston, SC

Alabama Allergy Asthma and Immunology Society, Treatment of Severe
Asthma; ART and Importance to the Alabama Society, August 11, 2007,
Sandestin, Florida

Tennessee Allergy/Immunology Society Meeting, Treatment of Severe
Asthma; ART and Importance to the Tennessee Society, Aug 18, 2007,
Nashville, TN

Long Island Allergy Asthma and Immunology Society Meeting,
Rheumatology for the Allergist/Immunologist; GERD and Upper Airway
Symptoms; ART and Importance to the Long Island Society, Sept 8, 9,
2007, Montauk, New York

Panel Discussion. Colloquim II: Emotional Intelligence in Health Care
Professionals. September 19, 2007, University of South Florida, Tampa,
Florida

USF Conference, Allergy and Immunology Update for the Primary Care
Physician, Evidence Based Medicine: Treatment of Acute Asthma, Sept
29, 2007, Tampa, FL

San Diego Allergy Society, Rheumatology for the Practicing
Allergist/Immunologist, Nov 2007, San Diego, CA

Visiting Professor, University of Southern California, Application of the 2007 NHLBI Asthma Guidelines: Anything New?, Nov 2007, Los Angeles, CA

Phillipine Allergy Society of Tampa Bay, Update on Asthma, January 2008, Tampa, Florida

CME Conference, Pri-Med West, Update in asthma, May 15, 2008, Anaheim, CA.

Louisiana Allergy Asthma and Immunology Annual Scientific Meeting, GERD and Upper Airway Complaints, June 21, 2008, New Orleans, LA

Cincinnati Allergy Asthma Allergy and Immunology Society, Visiting Professor, Antihistamine Therapy Update, Aug 12, 2008, Cincinnati, Ohio.

National Institute of Aging, Conference on Asthma in the Elderly, Review of NHLBI Guidelines for Asthma in the Elderly, Sept 9, 2008, Virginia

CME Conference for USF, Allergy, Asthma and Immunology Update, Sinusitis, Sept 27, 2008, Orlando, FL

CME Conference for USF, Allergy, Asthma and Immunology Update, Risks of Inhaled Corticosteroids, Sept 27, 2008, Orlando, FL

2008 ACAAI Annual Meeting, Role of Histamine in Common Allergic Diseases, Nov 10, 2008, Seattle, Washington.

65th Annual AAAAI Meeting, Patient Centered Outcomes: What are the Institute of Medicine and FDA Directives Regarding Patient-Centered Outcomes?, March 14, 2009, Washington, DC.

First Don Fournier Commemorative Lecture, Pediatric Asthma Following NHLBI III: Is there an asthma epidemic?, Sept 3, 2009, Pediatric Grand Rounds LSU, Shreveport, LA.

Sublingual Immunotherapy: Where are we and where are we going? Research/Teaching Conference, LSU, Sept 3, 2009, Shreveport, LA.

Visiting Professor, Sublingual Immunotherapy Review and Update, Ohio State University, Sept 22, 2009, Columbus, Ohio.

Evaluation and Treatment of Sinusitis in Children, 26th Annual Care of the Sick Child Conference, Arnold Palmer Hospital for Children and Florida State University Medical School, October 8, 2009, Orlando, Florida.

Risk and Benefits of Inhaled Corticosteroids for the Treatment of Asthma, 26th Annual Care of the Sick Child Conference, Arnold Palmer Hospital for Children and Florida State University Medical School, October 8, 2009, Orlando, Florida.

Differential Diagnosis and Treatment of Asthma, Update in Allergy and Immunology, University of South Florida College of Medicine, October 17, 2009, Tampa, Florida.

Laboratory Tests for Autoimmune Diseases: Optimal Choices and Interpretation, Plenary Lecture, 2009 ACAAI Annual Meeting, November 9, 2009, Miami Florida

Meet the Professor Symposia, GERD in Adults and Children, 2009 ACAAI Annual Meeting, November 9, 2009, Miami, Florida.

66th Annual Meeting AAAAI, "GERD and Asthma: Is the Case Overstated?", Workshop Panelist, Feb 27, 2010, New Orleans, LA.

66th Annual Meeting, AAAAI, "Evaluation and Treatment of Nonallergic Rhinitis", Feb 29, 2010, New Orleans, LA

Internal Medicine Grand Rounds, "GERD and Asthma: Is the Case Overstated?", March 11, 2010, Tampa, Florida

Florida Allergy, Asthma and Immunology Society Annual Meeting & Scientific Program, Adult Allergy Expert Panel, June 22-24, 2012

Florida Dermatology West Coast Conference, "Allergy and the Skin: The Immunologic Crossroad", August 14, 2012, Tampa, Florida

Asthma and Allergy Foundation of America, Alaska Chapter's Seventh Annual Asthma and Allergy Conference, "Anaphylaxis", September 7, 2012, Alaska

Southeastern Allergy, Asthma and Immunology Society 67th Annual meeting, "Autoimmunity for the Allergist/Immunologist", September 13-15, 2012, Amelia Island, Florida

ACAAI 2012 Annual Scientific Meeting, "M7 Severe Asthma", November 8-13, 2012, Anaheim, CA

Allergy, Asthma and Immunology Society of South Carolina Annual Meeting, "Anaphylaxis: Mechanism, Differential Diagnosis and Treatment", "Eosinophilic Esophagitis", March 23-24, 2013, Charleston, SC

Florida Allergy, Asthma and Immunology Society Annual Meeting & Scientific Program, "Urticaria Therapy: What Should I Do After Antihistamines?" Plenary Session: Asthma, July 12-13, 2013, Orlando, Florida

Visiting Professor, Insect Hypersensitivity, Allergy Grand Rounds at Winthrop University Hospital, September 6, 2013, Mineola, New York.

American College of Allergy, Asthma and Immunology 2013 Annual Scientific Meeting, "New Frontiers in Allergy and Immunology: From Bench to Clinic". November 7-11, 2013, Baltimore, Maryland

**International
Conferences
& Lectures**

Visiting Guest Professor, National Institute of Respiratory Disease: Review of Basic Immunology", "Molecular and Cellular Aspects of Granulomatous Reactions", "Overview of Immunopharmacology" and "Immunopharmacologic Approaches to Therapy of Lung Disease Including AIDS", Santiago, Chile, July 16-23, 1988

Grand Rounds National University Hospital: Lecture, "Sick Building Syndrome," Seoul, Korea, May 11, 1995

Korean Society of Allergology Annual Congress: Lecture, "Anti-inflammatory Therapy of Asthma: Role of Nedocromil," Chon ju, Korea, May 13, 1995

World Allergy Organization, International Conference on Sublingual Immunotherapy. Paris, France, January 21-22, 2009.

Turkish National Society of Allergy and Immunology Annual Meeting, Update and Review of Urticaria, Antalya, Turkey, Nov 5, 2009

Turkish National Society of Allergy and Immunology Annual Meeting, Review of Insect Allergy, Antalya, Turkey, Nov 5, 2009

Preventative Effects of Immunotherapy, XXI World Allergy Congress, December 6, 2009, Buenos Aires, Argentina

Fire Ant Allergy, XXI World Allergy Congress, December 7, 2009, Buenos Aires, Argentina

Chronic Rhinosinusitis, XXI World Allergy Congress, December 7, 2009, Buenos Aires, Argentina.

Chairperson, Workshop on Rhinoscopy: Hands on Learning, XXI World Allergy Congress, December 7, 2009, Buenos Aires, Argentina

Anaphylaxis: Relationship to Antigens, XXI World Allergy Congress, December 8, 2009, Buenos Aires, Argentina

Gastroesophageal Reflux and Asthma, XXI World Allergy Congress, December 9, 2009, Buenos Aires, Argentina

Immunomodulation of Rheumatic Diseases, Sister Society Symposia, XXI World Allergy Congress, December 9, 2009, Buenos Aires, Argentina

American College of Allergy Asthma and Immunology, Annual Meeting, John P. McGovern Memorial Lecture, "GERD and Asthma", November , 2010, Phoenix, Arizona

World Allergy Organization Interim Meeting, Dubai, UAE

World Allergy Organization Interim Meeting, Dubai, UAE

World Allergy Organization Interim Meeting, Dubai, UAE

World Allergy Organization Interim Meeting, Dubai, UAE

European Allergy Asthma and Clinical Immunology, World Allergy Organization and American Academy of Allergy Asthma and Immunology, Joint Leadership Meeting, February 3-5, 2011, Hartwell House, UK

American Academy of Allergy Asthma and Immunology, Annual Meeting, "Nonallergic Rhinitis", March 2011, San Francisco, CA

Congresso SudAmericano, Sociedad Latinoamericana de Alergia, Asma e Immunologica-Capitulo Cono Sur, Plenary Lecture, "Obesity and Asthma:

What is the connection?", April 29, 2011, Cordoba, Argentina

Congresso SudAmericano, Sociedad Latinoamericana de Alergia, Asma e Immunologica-Capitulo Cono Sur, Plenary Lecture in Honor of Prof. Juan C. Baena-Cagnani, AAAAI Sister Symposia, "Genetics, Epigenetics and Pharmacogenetics in Asthma", April 30, 2011, Cordoba, Argentina

Adjuvant and Allergen Vaccines 2012 International Congress, "Allergen Immunotherapy, Prevention, Recognition and Treatment of Systemic allergic reactions. May 6-11, 2012, Valadero, Cuba

EAACI Annual Meeting, Chair session "Unmet needs by iCAALL", June 16-20, 2012, Geneva, Switzerland.

**Publications:
Journal Articles**

Parham DM, Ledford DK, Pinkston GR:
Coexisting gastric adenocarcinoma and lymphoma following pulmonary lymphocytic infiltration.
J Tenn Med Assoc 74: 569-72, 1981

Ledford D, Goni F, Pizzolate M, Franklin E, Solomon A, Frangione B:
Preferential association of KIIIIb light chains with monoclonal human IgMK autoantibodies.
J Immuno131:1322-1325, 1983

Ledford DK, Frangione B:
Characterization of anti-idiotypic activity in mixed cryoglobulinemia
Ann NY Acad Sc 418: 324-330, 1983

Ledford DK, Overman M, Gonzalvo A, Cali A, Mester SW, Lockey RF:
Microsporidiosis Myositis in the Acquired Immune Deficiency Syndrome
Annals Int Med 102: 628-630, 1985

Weiss A, Ledford DK, Lockey RF:
Toxoplasmic retinochoroiditis as an initial manifestation of the acquired immune deficiency syndrome. Letter to the Editor.
Am J Ophthamol 101(2): 248-249, 1986

Nelson RP, Ledford DK, DeVoe PW, Lockey RF:
The use of hepatitis hyperimmune globulin in healthcare workers exposed to HTLV III.
Ann Int Med 105: 465, 1986

Nelson RP, Ledford DK, Lockey RF:
The epidemiology of AIDS.
Immunopathology Immunotherapy Letter 3:2-5, 1987

Ledford DK, Espinoza LR:
Immunologic Aspects of cardiovascular disease.
JAMA Primer on Allergic and Immunologic Diseases, 258: 2974-2982, 1987

Ledford DK, Espinoza LR:
Immunologic aspects of cardiovascular disease.
JAMA Primer on Allergic and Immunologic Diseases, Chinese edition, 8:
207-215, 1988

Nordvall L, Ledford DK, Johansson SGO, Lockey RF:
Allergens of the imported fire ant.
J Allergy Clin Immunol 82: 567-576, 1988

Ledford DK, Sakamoto Y, O'Connor C, Krzanowski K, Lockey R, Polson J, Krzanowski J:
Lack of Effect of Gold Salts on Acetylcholine or Histamine Contraction of Canine Tracheal and Bronchial Smooth Muscle. Archives Internationales de Pharmacodynamie et de Therapie y298: 237-246, 1989

Wright DN, Ledford DK, Lockey RF:
Systemic and local allergic reaction to the Tine Test purified protein derivative.
JAMA 262(21): 2999, 1989

Silton RP, Ledford DK, Lockey RF:
A promising new drug for severe asthma.
Contemporary Int Med 1: 37-38, April, 1989

Ledford DK, Espinoza LR:
Immunoloska Strana Kardiovaskularne Bolesti.
JAMA Jugoslovensico Izdanje Beograd, pp 154-162, Maj, 1989

Ledford DK:
Can Allergies affect classroom performance?
Private Schools Magazine Vol 1, #4, 89/90, pp 26-31

Wright DN, Nelson RP, Ledford DK, Fernandez Caldas E, Trudeau W, Lockey RF:
Serum IgE and human immunodeficiency virus (HIV) infection.
J Allergy Clin Immunol 85:445-452, 1990

Fernandez-Caldas E, Fox RW, Bucholtz GA, Trudeau WL, Ledford DK, Lockey RF:
House dust allergy in Florida, mite survey in households of mite sensitive individuals in Tampa, Florida.
Allergy Proceeding 11:263-268, 1990

Ledford DK:
Immunologic aspects of cardiovascular disease.
JAMA 268: 2923, 1992

Calderon E, Lockey RF, Bukantz SC, Coffey R, Ledford DK:
Is there a role for cyclosporine in asthma?
J Allergy Clin Immunology 89(2): 629-636, 1992

Ledford DK:
Alternative treatments for severe, chronic asthma.
Allergy Proc 14: 23-30, 1993

Ledford DK:
Rheumatic Diseases.
In: MKSAP for Allergy and Immunology. Edited by Fink JN, Lockey RF.
American College of Physicians, Philadelphia, PA, pp 117-129, 1993

Israel E, Rubin P, Kemp JP, Grossman J, Pierson W, Siegel SC, Tinkelman D, Murray JJ, Busse W, Segal AT, Fish J, Kaiser HB, Ledford D, Wenzel S, Rosenthal R, Cohn J, Lanni C, Pearlman H, Karahalios P, Drazen JM: The effect of inhibition of 5-Lipoxygenase by Zileuton in Mild-to-Moderate Asthma. *Ann Inter Med* 119:1059-1066, 1993

Ledford DK:
Immunological Aspects of Cardiovascular Diseases.
Clinical Immunotherapeutics 1(5):327-347, 1994

Ledford DK:
Indoor allergens.
J Allergy Clin Immunol 94: 327-335, 1994

Fernandez-Caldas E, Trudeau WL, Ledford DK:
Environmental control of indoor biologic agents.
J Allergy Clin Immunol 94: 404-413, 1994

Ledford DK, Lockey RF:
Building- and home-related complaints and illnesses: "Sick building syndrome".
J Allergy Clin Immunol 94: 275-276, 1994

Stewart II GE, Diaz JD, Lockey RF, Seleznick MJ, Trudeau WL, Ledford DK:
Comparison of oral pulse methotrexate with placebo in the treatment of severe glucocorticosteroid-dependent asthma.
J Allergy Clin Immunol 94: 482-489, 1994

Ledford DK:
Asthma Update 1995: Anti-inflammatory Therapy.
Florida Family Physician 45:17-20, 1995

Ledford DK:
Immunologic Aspects of Vasculitis and Cardiovascular Disease.
JAMA 278(22): 1962-1971, 1997

In KH, Asano K, Beier D, Grobholz J, Finn PW, Silverman EK, Silverman ES, Collins T, Fischer AR, Keith TP, Serino K, Kim SW, De Sanctis GT, Yandava C, Pillari A, Rubin P, Kemp J, Israel E, Busse W, Ledford D, Murray JJ, Segal A, Tinkleman D, Drazen JM. Naturally occurring mutations in the human 5-lipoxygenase gene promoter that modify transcription factor binding and reporter gene transcription. *J Clin Invest.* 1997 Mar 1;99(5):1130-7. PubMed PMID: 9062372; PubMed Central PMCID: PMC507922.

Dykewicz MS, Ledford DK:
Recent Findings in Asthma Likely to Impact Patient Care.
Comprehensive Therapy 24(4): 187-192, April 1998

Ledford DK, Lockey RF:
Allergic rhinitis: Understanding the process.
J Resp Dis 19(7): 576-584, 1998

Ledford DK, Lockey RF:
Allergic rhinitis: Offering relief this season.
J Resp Dis 19(8): 647-666, August 1998

Ledford DK, Apter A, Brenner AM, Rubin K, Prestwood K, Frieri M, Lukert B: Osteoporosis in the Corticosteroid-Treated Patient with asthma. *J Allergy Clin Immunol* 102(3): 353-362, September 1998

Ledford DK. Clinical trials review: vasculitis. *Curr Rheumatol Rep* 2000;2:365-8.

Theodoropoulos DS, Ledford DK, Lockey RF:
Reply (letter to editor) to article by Crisera CA, Connelly PR, et al, entitled, "TTF-1 and HNF-3 beta in the developing tracheoesophageal fistula: further evidence for the respiratory origin of the distal esophagus". *J Pediatr Surg*, 35(5): 811-812, 2000

Druce HM, Ledford DK. Fiberoptic rhinoscopy. *Clin Allergy Immunol*. 2000;15:233-45. Review. PubMed PMID: 10943296.

Theodoropoulos DS, Ledford DK, Lockey RF, Pecoraro DL, Rodriguez JA, Johnson MC, Boyce HW Jr:
Prevalence of upper respiratory symptoms in patients with symptomatic gastroesophageal reflux disease. *American Journal of Respiratory & Critical Care Medicine*. 164(1):72-6, 2001 Jul 1.

Fernandez-Caldas E, Codina R, Ledford DK, Trudeau WL, Lockey RF. House dust mite, cat, and cockroach allergen concentrations in daycare centers in Tampa, Florida. *Ann Allergy Asthma Immunol*. 2001 Sep;87(3):196-200.

Lilly CM, Churg A, Lazarovich M, Pauwels R, Hendeles L, Rosenwasser LJ, Ledford D, Wechsler ME. Asthma therapies and Churg-Strauss syndrome. *J Allergy Clin Immunol*. 2002 Jan;109(1):S1-19.

Ramirez NC, Ledford DK. Immunotherapy for allergic asthma. *Med Clin North Am* 2002;86:1091-112.

Fish JE, Szeffler SJ, Frieri M, Lang D, Lazarus SC, Ledford D, et al. ACCP/AAAI/ACAAI Systematic review of the evidence regarding potential complications of inhaled corticosteroids use in asthma. *Chest* 2003;124:2329-2340.

Ledford D. Inadequate diagnosis of nonallergic rhinitis: assessing the damage. *Allergy Asthma Proc* 2003;24:155-62.

Fish JE, Szeffler SJ, Frieri M, Lang D, Lazarus SC, Ledford D, et al. Quick reference guide for clinicians: systematic review of the evidence regarding potential complications of inhaled steroid use in asthma. *Ann Allergy Asthma Immunol* 2004;92:294-304.

Bukstein DA, Jones CA, Ledford DK, Smith P, Wechsler ME, Urbano FL. Discussing the COSTS of asthma: controlling outcomes, symptoms, and treatment strategies. *Am J Manag Care* 2005;11(Suppl 11):S318-S336.

Bielory L, Blaiss M, Fineman SM, Ledford DK, Lieberman P, Simons FE, Skoner DP, Storms WW: Joint Task Force of the American Academy of Allergy, Asthma and Immunology/American College of Allergy, Asthma and Immunology. Concerns about intranasal corticosteroids for over-the-counter use: position statement of the Joint Task Force for the American Academy of Allergy, Asthma and Immunology and the American College of Allergy, Asthma and Immunology. *Ann Allergy Asthma Immunol*

2006;96:514-25.

Ramey JT, Ledford D. Daily corticosteroids were not better than as-needed corticosteroids in mild persistent asthma. *ACP J Club*. 2005;143:60.

Singam R, Jena PK, Behera S, Hellermann GR, Lockey RF, Ledford D, Mohapatra SS. Combined fluticasone propionate and salmeterol reduces RSV infection more effectively than either fo them alone in allergen-sensitized mice. *Virol J* 2006;3:32-

Cole SL, Ledford DK, Lcokey RF, Daas A, Kooper J. Primary gastrointestinal lymphangiectasia presenting as cryptococcal meningitis. *Ann Allergy Asthma Immunol* 2007;98:490-2.

Chacko T, Ledford D. Peri-anesthetic anaphylaxis. *Immunol Allergy Clin North Am*. 2007;27:213-30

Miller AC, Chacko T, Rashid RM, Ledford DK. Fever of unknown origin and isolated noncaseating granuloma of the marrow: could this be sarcoidosis. *Allergy Asthma Proc* 2007;28:230-5.

Canonica GW, Bousquet J, Casale T, Lockey RF, Baena-Cagnani CE, Pawankar R, Potter PC, Bousquet PJ, Cox LS, Durham SR, Nelson HS, Passalacqua G, Ryan DP, Brozek JL, Compalati E, Dahl R, Delgado L, van Wijk RG, Gower RG, Ledford DK, Filho NR, Valovirta EJ, Yusuf OM, Zuberbier T, Akhanda W, Almarales RC, Ansotegui I, Bonifazi F, Ceuppens J, Chivato T, Dimova D, Dumitrascu D, Fontana L, Katelaris CH, Kaulsay R, Kuna P, Larenas-Linnemann D, Manoussakis M, Nekam K, Nunes C, O'Hehir R, Olaguibel JM, Onder NB, Park JW, Priftanji A, Puy R, Sarmiento L, Scadding G, Schmid-Grendelmeier P, Seberova E, Sepiashvili R, Solé D, Togias A, Tomino C, Toskala E, Van Beever H, Vieths S. Sub-lingual immunotherapy: World Allergy Organization Position Paper 2009. *Allergy*. 2009 Dec;64 Suppl 91:1-59. doi: 10.1111/j.1398-9995.2009.02309.x. PubMed PMID: 20041860.

Canonica GW, Bousquet J, Casale T, Lockey RF, Baena-Cagnani CE, Pawankar R, Potter PC, Bousquet PJ, Cox LS, Durham SR, Nelson HS, Passalacqua G, Ryan DP, Brozek JL, Compalati E, Dahl R, Delgado L, van Wijk RG, Gower RG, Ledford DK, Filho NR, Valovirta EJ, Yusuf OM, Zuberbier T. Sub-lingual immunotherapy: world allergy organization position paper 2009. *World Allergy Organ J*. 2009 Nov;2(11):233-81. doi: 10.1097/WOX.0b013e3181c6c379. Epub 2009 Nov 19. PubMed PMID: 23268425; PubMed Central PMCID: PMC3488881.

Ledford DK. Omalizumab: overview of pharmacology and efficacy in asthma. *Expert Opin Biol Ther*. 2009 Jul;9(7):933-43. doi: 10.1517/14712590903036060. PubMed PMID: 19527111.

Lieberman P, Nicklas RA, Oppenheimer J. The diagnosis and management of anaphylaxis practice parameter: 2010 update. *J Allergy Clin Immunol* 2010;126(3):477-80.

Parkerson J, Ledford D. Mannitol as an indirect bronchoprovocation test for the 21st century. *Ann Allergy Asthma Immunol*. 2011 Feb;106(2):91-6. doi:10.1016/j.anai.2010.11.010. Epub 2010 Dec 23. Review. PubMed PMID: 21277509.

Lieberman P, Nicklas RA, Oppenheimer J, Kemp SF, Lang DM, Bernstein DI, Bernstein JA, Burks AW, Feldweg AM, Fink JN, Greenberger PA, Golden DB, James JM, Kemp SF, Ledford DK, Lieberman P, Sheffer AL, Bernstein DI, Blessing-Moore J, Cox L, Khan DA, Lang D, Nicklas RA, Oppenheimer J, Portnoy JM, Randolph C, Schuller DE, Spector SL, Tilles S, Wallace D. The diagnosis and management of anaphylaxis practice parameter: 2010 update. *J Allergy Clin Immunol*. 2010 Sep;126(3):477-80.e1-42. doi: 10.1016/j.jaci.2010.06.022. Epub 2010 Aug 7. Erratum in: *J Allergy Clin Immunol*. 2010 Dec;126(6):1104. PubMed PMID: 20692689.

Shin B, Cole SL, Park SJ et al. A new symptom-based questionnaire for predicting the presence of asthma. *J Invest Allergology & Clin Immunology* 2010;120(1):27-34.

Simons FE, Arduzzo LR, Bilo MB et al. World Allergy Organization anaphylaxis guidelines: summary. *J Allergy Clin Immunol* 2011;127(3):587-93.

Parkerson J, Ledford DK. Mannitol: an indirect bronchoprovocation test for the 21st century. *Ann Allergy Asthma Immunol* 2011;106(2):91-6.

Hanania NA, King MJ, Braman SS, et al. Asthma in the elderly: Current understanding and future research needs – a report of a National Institute on Aging (NIA) workshop. *J Allergy Clin Immunol* 2011;128S4-24.

Phillips JF, Fox RW, Ledford DK, Glaum M., Lockey RF. Systemic reactions to subcutaneous allergen immunotherapy and the response to epinephrine. *Allergy & Asthma Proceedings* 2011; 32(4):288-94.

Simons FE, Arduzzo LR, Bilò MB, El-Gamal YM, Ledford DK, Ring J, Sanchez-Borges M, Senna GE, Sheikh A, Thong BY; World Allergy Organization. World allergy organization guidelines for the assessment and management of anaphylaxis. *World Allergy Organ J*. 2011 Feb;4(2):13-37. doi: 10.1097/WOX.0b013e318211496c. Epub 2011 Feb 23. PubMed PMID: 23268454; PubMed Central PMCID: PMC3500036.

Lötvall J, Pawankar R, Wallace DV, Akdis CA, Rosenwasser LJ, Weber RW, Burks AW, Casale TB, Lockey RF, Papadopoulos NG, Fineman SM, Ledford DK, American Academy of Allergy, Asthma & Immunology (AAAAI); American College of Allergy, Asthma & Immunology (ACAAI); European Academy of Allergy and Clinical Immunology (EAACI); World Allergy Organization (WAO). We call for iCAALL: International Collaboration in Asthma, Allergy and Immunology. *J Allergy Clin Immunol* 2012;129(4):904-5.

Lötvall J, Pawankar R, Wallace DV, Akdis CA, Rosenwasser LJ, Weber RW, Burks AW, Casale TB, Lockey RF, Papadopoulos NG, Fineman SM, Ledford DK, American Academy of Allergy, Asthma & Immunology (AAAAI); American College of Allergy, Asthma & Immunology (ACAAI); European Academy of Allergy and Clinical Immunology (EAACI); World Allergy Organization (WAO). We call for iCAALL: International Collaboration in Asthma, Allergy and Immunology. *Allergy* 2012;67(4):449-450.

Lötvall J, Pawankar R, Wallace DV, Akdis CA, Rosenwasser LJ, Weber RW, Burks AW, Casale TB, Lockey RF, Papadopoulos NG, Fineman SM, Ledford DK, American Academy of Allergy, Asthma & Immunology (AAAAI); American College of Allergy, Asthma & Immunology (ACAAI); European Academy of Allergy and Clinical Immunology (EAACI); World Allergy Organization (WAO). We call for iCAALL: International Collaboration in Asthma, Allergy and Immunology. *Ann Allergy Asthma Immunol* 2012;108(4):215-216.

Balduzzi M, Rashid D, Butt A, Ledford D. A Rare Reaction to Intravenous Iron Sucrose. Accepted for publication in the *Annals of Allergy, Asthma & Immunology*.

WAO Task Force: Passalacqua G, Baena-Cagnani CE, Bousquet J, Canonica GW, Casale T, Cox L, Durham S, Larenas-Linnemann D, Lockey RF, Pawankar R, Potter P, Rosario N, Ledford D: Grading side effects of sublingual immunotherapy - speaking the same language. *J Allergy Clin Immunol*, submitted.

Simons FE, Arduzzo LR, Bilò MB, Dimov V, Ebisawa M, El-Gamal YM, Ledford DK, Lockey RF, Ring J, Sanchez-Borges M, Senna GE, Sheikh A, Thong BY, Worm M; World Allergy Organization. 2012 Update: World Allergy Organization Guidelines for the assessment and management of anaphylaxis. *Curr Opin Allergy Clin Immunol*. 2012 Aug;12(4):389-99. doi: 10.1097/ACI.0b013e328355b7e4. PubMed PMID: 22744267.

Papadopoulos NG, Arakawa H, Carlsen KH, Custovic A, Gern J, Lemanske R, Le Souef P, Mäkelä M, Roberts G, Wong G, Zar H, Akdis CA, Bacharier LB, Baraldi E, van Bever HP, de Blic J, Boner A, Burks W, Casale TB, Castro-Rodriguez JA, Chen YZ, El-Gamal YM, Everard ML, Frischer T, Geller M, Gereda J, Goh DY, Guilbert TW, Hedlin G, Heymann PW, Hong SJ, Hossny EM, Huang JL, Jackson DJ, de Jongste JC, Kalayci O, Ait-Khaled N, Kling S, Kuna P, Lau S, Ledford DK, Lee SI, Liu AH, Lockey RF, Lødrup-Carlsen K, Lötvall J, Morikawa A, Nieto A, Paramesh H, Pawankar R, Pohunek P, Pongracic J, Price D, Robertson C, Rosario N, Rosenwasser LJ, Sly PD, Stein R, Stick S, Szefer S, Taussig LM, Valovirta E, Vichyanond P, Wallace D, Weinberg E, Wennergren G, Wildhaber J, Zeiger RS. International consensus on (ICON) pediatric asthma. *Allergy*. 2012 Aug;67(8):976-97. doi: 10.1111/j.1398-9995.2012.02865.x. Epub 2012 Jun 15. PubMed PMID: 22702533.

Ledford DK. House dust mite allergy in Florida. *J Fla Med Assoc*. 1996 Jun-Jul;83(6):411-4. PubMed PMID: 8752369.

Shearer WT, Adelman DC, Huston DP, Engler RJ, Gupta S, Ledford DK, Lopez M, Du Buske LM. Core content outline for clinical and laboratory immunology. AAAI Training Program Directors' Committee. *J Allergy Clin Immunol*. 1994 Dec;94(6 Pt 1):933-41. PubMed PMID: 7798541.

Kaplan A, Ledford D, Ashby M, Canvin J, Zazzali JL, Conner E, Veith J, Kamath N, Staubach P, Jakob T, Stirling RG, Kuna P, Berger W, Maurer M, Rosén K. Omalizumab in patients with symptomatic chronic idiopathic/spontaneous urticaria despite standard combination therapy. *J Allergy Clin Immunol*. 2013 Jul;132(1):101-9. doi: 10.1016/j.jaci.2013.05.013. PubMed PMID: 23810097

Editorials

Ledford DK. Inflammation and asthma: here, there, everywhere. *Ann Allergy Asthma Immunol.* 2002 Oct;89(4):346-7. PubMed PMID: 12392376.

Ledford DK. Is oral immunotherapy too good to be true? *Ann Allergy Asthma Immunol.* 2004 Jan;92(1):1-2. PubMed PMID: 14756456.

Lockey RF, Ledford DK. Allergens and allergen immunotherapy. Preface. *Clin Allergy Immunol.* 2008;21:vii. PubMed PMID: 18828494.

Popov TA, Ledford D, Lockey R, Pawankar R, Li JT, Park HS, Pichler W, Perez NR, Tassinari P, Braido F, Bahna S, Solé D, Katelaris C, Holgate S; World Allergy Organization Education Council. Maintenance of skills, competencies, and performance in allergy and clinical immunology: time to lay the foundation for a universal approach. *World Allergy Organ J.* 2012 Apr;5(4):45-51. doi: 10.1097/WOX.0b013e31825546b4. Epub 2012 Apr 17. PubMed PMID: 23268472; PubMed Central PMCID: PMC3488921.

Lötvall J, Pawankar R, Wallace DV, Akdis CA, Rosenwasser LJ, Weber RW, Wesley Burks A, Casale TB, Lockey RF, Papadopoulos N, Fineman SM, Ledford DK; American Academy of Allergy, Asthma & Immunology (AAAAI), the American College of Allergy, Asthma & Immunology (ACAAI), the European Academy of Allergy and Clinical Immunology (EAACI), and the World Allergy Organization (WAO). We Call for iCAALL: International Collaboration in Asthma, Allergy and Immunology. *World Allergy Organ J.* 2012 Mar;5(3):39-40. doi: 10.1097/WOX.0b013e3182504245. Epub 2012 Mar 15. PubMed PMID: 23268470; PubMed Central PMCID: PMC3507245.

Ledford DK, Burks AW, Ballou M, Cox L, Wood RA, Casale TB. Statement regarding "The public health benefits of air pollution control". *J Allergy Clin Immunol.* 2012 Jul;130(1):24. doi: 10.1016/j.jaci.2012.02.055. PubMed PMID: 22742836.

Lötvall J, Pawankar R, Wallace DV, Akdis CA, Rosenwasser LJ, Weber RW, Burks AW, Casale TB, Lockey RF, Papadopoulos NG, Fineman SM, Ledford DK; American Academy of Allergy, Asthma & Immunology (AAAAI); American College of Allergy, Asthma & Immunology (ACAAI); European Academy of Allergy and Clinical Immunology (EAACI); World Allergy Organization (WAO). We call for iCAALL: International Collaboration for Asthma, Allergy and Immunology. *Ann Allergy Asthma Immunol.* 2012 Apr;108(4):215-6. doi: 10.1016/j.anai.2012.02.025. PubMed PMID: 22469437.

Lötvall J, Pawankar R, Wallace DV, Akdis CA, Rosenwasser LJ, Weber RW, Wesley Burks A, Casale TB, Lockey RF, Papadopoulos NG, Fineman SM, Ledford DK; American Academy of Allergy, Asthma & Immunology (AAAAI), the American College of Allergy, Asthma & Immunology (ACAAI), the European Academy of Allergy and Clinical Immunology (EAACI), and the World Allergy Organisation (WAO). We call for iCAALL: International Collaboration in Asthma, Allergy and Immunology. *Allergy.* 2012 Apr;67(4):449-50. doi: 10.1111/j.1398-9995.2012.02813.x. PubMed PMID: 22414196.

Lötvall J, Pawankar R, Wallace DV, Akdis CA, Rosenwasser LJ, Weber RW, Burks AW, Casale TB, Lockey RF, Papadopoulos NG, Fineman SM, Ledford DK; American Academy of Allergy, Asthma & Immunology (AAAAI); American College of Allergy, Asthma & Immunology (ACAAI); European Academy of Allergy and Clinical Immunology (EAACI); World Allergy Organization (WAO). We call for iCAALL: International Collaboration in Asthma, Allergy and Immunology. *J Allergy Clin Immunol*. 2012 Apr;129(4):904-5. doi: 10.1016/j.jaci.2012.02.009. Epub 2012 Feb 25. PubMed PMID: 22365583.

Passalacqua G, Baena-Cagnani CE, Bousquet J, Canonica GW, Casale TB, Cox L, Durham SR, Larenas-Linnemann D, Ledford D, Pawankar R, Potter P, Rosario N, Wallace D, Lockey RF. Grading local side effects of sublingual immunotherapy for respiratory allergy: Speaking the same language. *J Allergy Clin Immunol*. 2013 May 15. doi:pii: S00916749(13)00528-9. 10.1016/j.jaci.2013.03.039. [Epub ahead of print] PubMed PMID: 23683513.

Akdis CA, Bachert C, Cingi C, Dykewicz MS, Hellings PW, Naclerio RM, Schleimer RP, Ledford D. Endotypes and phenotypes of chronic rhinosinusitis: A PRACTALL document of the European Academy of Allergy and Clinical Immunology and the American Academy of Allergy, Asthma & Immunology. *J Allergy Clin Immunol*. 2013 Jun;131(6):1479-90. doi: 10.1016/j.jaci.2013.02.036. Epub 2013 Apr 12. PubMed PMID: 23587334.

Ledford DK, Lockey RF. Asthma and comorbidities. *Curr Opin Allergy Clin Immunol*. 2013 Feb;13(1):78-86. doi: 10.1097/ACI.0b013e32835c16b6. PubMed PMID: 23222157.

Books

Lockey RF, Ledford DK (eds): Allergens and Allergen Immunotherapy for Allergic Diseases, 4th edition. Informa Healthcare, New York, NY, 2008 (550 pages).

Ledford DK, Lockey RF (Guest Editors): Immunology and Allergy Clinics of North America, Immunotherapy: A Practical Review and Guide, Volume 20, Number 3, W.B. Saunders, Philadelphia, PA, 2000 (pages 469-661).

Ledford DK, Lockey RF: Volume editors - Allergic Diseases. *Encyclopedia of Infection and Immunity*. Rose N, Mackay I (eds). Springer, New York, NY, 2011.

Lockey RF, Ledford DK, in collaboration with the World Allergy Organization (eds): Asthma, Comorbidities, Co-Existing Conditions, and Differential Diagnoses. Oxford University Press, 2014, (481 pages).

Lockey RF, Ledford DK (eds): Allergens and Allergen Immunotherapy: Subcutaneous, Sublingual, and Oral, 5th edition. CRC Press/Taylor & Francis Group, New York, NY, 2014 (525 pages).

Lockey RF, Ledford DK (volume eds: Allergic Diseases): Encyclopedia of Infection and Immunity, (eds, Rose N, Mackay I), Springer, Inc., New York, NY, in preparation.

Book Chapters

Berman A, Richey H, Ledford DK, Espinoza LR:
Vasculitis. In Textbook of Rheumatology. University of Pueblo, Mexico, 1988

Ledford DK, Lockey RF:
Immunotherapy for Allergic Disease. In Allergy, Asthma, and Immunology from Infancy to Adulthood, Third Edition. Bierman CW, Pearlman DS, Shapiro GG, Busse WW (eds). W. B. Saunders, Philadelphia, PA, 1996, pp 237-255

Ledford DK:
Vasculitis and Immune Complex Disease. In Current Practice of Medicine, Volume 2, Lieberman P (Section Editor), Bone RC (Series Editor), Churchill Livingstone, Inc., Philadelphia, PA, 1996, VII: 14.1-14.9

Ledford DK:
Treatment of Steroid-Resistant Asthma. In Immunology and Allergy Clinics of North America, Asthma Update. Williams PV (Guest Editor). W. B. Saunders, Philadelphia, PA, November 1996, 16(4): 777-796

Ledford DK:
Urticaria and Angioedema. In Allergic Diseases - Diagnosis and Treatment. Lieberman P and Anderson JA, (eds). Humana Press, Totowa, NJ, 1997, pp 189-204

Ledford DK:
Vasculitis and Immune Complex Disease. In Current Practice of Medicine, Volume 1, Number 1, Fitzgerald FT (editor-in-chief), Lieberman PL (section editor), Current Practice, Inc., Philadelphia, PA, 1998, pp 183-193

Ledford DK:
Efficacy of Immunotherapy. In Allergens and Allergen Immunotherapy, second edition. Lockey RF, Bukantz SC (eds). Marcel Dekker, Inc., New York, NY, 1998, pp 359-379

Ledford DK:
Adverse Effects of Inhaled Glucocorticoids. In Immunology and Allergy Clinics of North America, Corticosteroids in Respiratory Allergy. Szeffler SJ, Leung DYM (Guest Editors). W. B. Saunders, Philadelphia, PA, November 1999, 19(4): 819-836

Ledford DK:
Rhinitis. In Allergic Diseases – Diagnosis and Treatment, second edition. Lieberman P, Anderson JA (eds). Humana Press, Totowa, NJ, 2000, pp 159-182

Ledford DK:
Steroid-Induced Osteoporosis: Prevention and Management. In Severe Asthma-Pathogenesis and Clinical Management. Szeffler SJ and Leung DY (eds). Marcel Dekker, Inc. New York, NY, 2001, pp 533-565

Ledford DK:
Effectiveness of Immunotherapy. In Immunology and Allergy Clinics of North America, Allergen Immunotherapy. Ledford DK, Lockey RF (Guest Editors). W. B. Saunders, Philadelphia, PA, 2003.

Arias J, Ledford DK. Nonallergic rhinitis. *Conn's Current Therapy*, editors: RE Rakel, ET Bope; 56th ed, W.B. Saunders Co., Philadelphia, PA. 2004.

Ledford DK. Anaphylaxis and serum sickness. *Conn's Current Therapy*, editors: RE Rakel, ET Bope; 56th ed, W.B. Saunders Co., Philadelphia, PA. 2004.

Ledford DK. Anaphylaxis: Assessment and Management, *Current Opinion*, 2006.

Chacko T, Ledford D. Peri-anesthetic Anaphylaxis. In *Immunology and Allergy Clinics of North America, Anaphylaxis*. Lieberman P (Guest Editor). W. B. Saunders, Philadelphia, PA 2007, pp 213-230.

Ledford DK. Rhinitis. In *Allergic Diseases—Diagnosis and Treatment*, 3rd edition. Lieberman P, Anderson JA (eds). Humana Press, Totowa, NJ, 2007, pp 143-165.

Ledford DK. Vasculitis Update, *World Allergy Organization Web Page*, 2006

Ledford DK. Rhinitis. In *Allergy & Asthma: Practical Diagnosis and Management*, Mahmoudi M (ed). McGraw Hill, NY, NY, 2007, pp 38-54.

Ledford DK. Perioperative anaphylaxis. *UpToDate* 2008.\

Ledford DK, Purcell R. Allergic and Nonallergic Rhinitis. In: *Challenging Cases in Allergy and Immunology*, Mahmoudi M (ed). Humana Press, Totowa, New Jersey, 2009.

Ledford DK. Omalizumab: Overview of pharmacology and efficacy in asthma. *Expert Opin Biol Ther* 2009;9:933-43.

Rennard SI, Tashkin DP, McElhattan J et al. Efficacy and tolerability of budesonide/formoterol in one hydrofluoroalkane pressurized metered-dose inhaler in patients with chronic obstructive pulmonary disease. Results from a 1-year randomized controlled clinical trial. *Drugs* 2009;69:549-65.

Bulletins

Human Values Report. The Division for the Study of Human Values in Medicine, College of Medicine, University of South Florida, Fall, 1985.
Ledford Looks at AIDS from the Physician's Point of View.

The Link. Official Publication of the American Association of Medical Assistants. "The Acquired Immune Deficiency Syndrome", pp 12-16, Fall, 1985

Lockey RF, Fox RW, Ledford DK: What is allergy? The Members' Bulletin of the Asthma and Allergy Foundation of America. Sept./Oct., 1989

Lockey RF, Fox RW, Ledford DK: What Allergists say about Allergy... In *People Living with Allergies Year-round*.

A Marion Merrell Dow, Inc. bulletin.
Gem Communications, Inc., Norwalk, CT, 2(3):8-11, Fall 1994

Ledford DK: Appreciation and Contributions (Guest Editorial). *The Journal of the Florida Medical Association, Inc.* June/July 1996, Vol 83, No. 6, pp 367-68

Ledford DK: House Dust Mite Allergy in Florida.
The Journal of the Florida Medical Association, Inc.
June/July 1996, Vol 83, No. 6, pp 411-414

Reviews

Ledford DK: Book review on Rheumatological Medicine by Paul A. Dieppe, Michael Doherty, Diana Macfarlane and Peter Maddison. Annals Int Med 104:736, 1986

Ledford DK: Book review on Fundamental Immunology by William E. Paul. Annals Int Med 112: 555, 1990

Ledford DK. Book review: Harrison, Rheumatology, WAO Web Site, 2006.

Ledford DK. Global trends in asthma managements. Allergy and Immunology Report. 2007;3:3-4.

Abstracts

Ledford DK, Goni F, Solomon A, Franklin EC, Frangione B:
KIIIb is the predominant light chain in the human monoclonal IgM autoimmune response. Clin Res 30:473A, 1982

Ledford DK, Franklin EC, Frangione B:
Anti-idiotypic activity to a common phosphatidic acid binding idiotype in systemic lupus erythematosus.
Arth Rheum 25:S61, 1982

Ledford DK, Lockey RF, Serbousek D, Park J, TeStrake D:
Studies on airborne pollens and fungi during grass mowing.
Southeastern Branch, American Society for Microbiology, Clearwater Beach, Florida, October 25-27, 1984

Johansson SGO, Nordvall S, Ledford DK, Lockey RF:
Specific IgE and IgG responses to immunotherapy (IT) with imported fire ant whole body extract (IFA-WBE) in IFA hypersensitivity. J Allergy Clin Immunol 75:208, 1985

Krzanowski J, Sakamoto Y, O'Connor C, Ledford DK, Krzanowski K, Lockey, RF:
The acute actions of gold salts on canine tracheoal smooth muscle.
J Allergy Clin Immunol 75:123, 1985

Nordvall SL, Johansson SGO, Ledford DK, Lockey RF:
Allergens of imported fire ant, *Solenopsis invicta*.
J Allergy Clin Immunol 75: 119, 1984

Bucholtz G, Hensel III A, Lockey R, Serbousek D, Ledford D:
Allergenicity of the Australian pine pollen (*Casuarina equisetifolia*).
J Allergy Clin Immunol 75:119, 1984

Ledford DK, Overman MD, Gonzalvo A, Cali A, Mester SW, Lockey, RF:
Microsporidiosis myositis in the acquired immune deficiency syndrome.
Annals of Allergy 75(1): 208, 1985

Ledford D, Lockey R, Serbousek D, Park J, Te Strake D:
Studies on airborne fungal spores and pollens during grass mowing.
International Society for Human and Animal Mycology, IXth International Congress, Atlanta, Georgia, May 19-24, 1985, p 27

Ledford DK, Serbousek D, Lockey RF:
The effects of lawnmowing on airborne pollen and fungal spores.
J Allergy Clin Immunol 77(1): 243, 1986

Ledford DK, Bucholtz GA, Lockey RF:
Immunochemical characterization of Bahia grass (*Paspalum notatum*)
pollen extract (BPE) and cross reactivity with aqueous Bahia leaf extract
(BLF). *J Allergy Clin Immunol* 79(1): 215, 1987

Nelson RP, Bucholtz GA, Minor MW, Ledford DK, Lockey RF:
Bayberry (*Myrica cerifera*) pollen as an aeroallergen.
J Allergy Clin Immunol 79(1): 215, 1987

Bucholtz GA, Ledford DK, Lockey RF:
Immunochemical characterization of Australian pine (*Casuarina*
equisetifolia) pollen extract. *J Allergy Clin Immunol* 79(1): 216, 1987

Wright D, Nelson R, Ledford D, Lockey R:
Serum IgE and human immunodeficiency virus (HIV).
J Allergy Clin Immunol 81(1): 2-16, 1988

Wright DN, Ledford DK, Lockey RF:
Systemic allergic reaction to the Tine Test purified protein derivative
(PPD). *J Allergy Clin Immunol* 83(1): 269, 1989

Aronoff D, Ledford DK, Schou C, Fernandez-Caldas E, Trudeau W,
Lockey RF:
House dust mite and cockroach allergen concentrations in daycare
centers. *J Allergy Clin Immunol* 83(1): 197, 1989

Nelson RP, Wright DN, Russell DH, Ledford DK, Lockey RF, Good RA:
Serum prolactin levels in patients with human immunodeficiency (HIV)
infection. Fifth International Conference on AIDS, June 4-9, 1989,
Montreal, Canada.

Wright DN, Nelson RP, Ledford DK, Fernandez-Caldas E, Trudeau WL,
Lockey RF: Serum immunoglobulin E and human immunodeficiency
virus (HIV) infection. *J Allergy Clin Immunol* 85: 445-452, 1990

Askar ME, Wright DN, Ledford DK, Krzanowski JJ, Shabayek HA,
Lockey RF: The effect of heat on murine keratinocyte derived relaxing
factor. *J Allergy Clin Immunol* 87(1): 155, 1991. Presented at the 47th
Annual Meeting of the American Academy of Allergy and Immunology,
Feb. 28-March 6, 1991

Dajani N, Wright DN, Ledford DK, Askar ME, Anile P, Krzanowski JJ,
Lockey RF:
The effects of cultured murine keratinocyte suspension supernatant
(MKSS) on canine bronchial smooth muscle (BSM).
J Allergy Clin Immunol 87(1): 155, 1991. Presented at the 47th Annual
Meeting of the American Academy of Allergy & Immunology, Feb. 28-
March 6, 1991

Trudeau WL, FernandezCaldas E, Ledford DK, Bucholtz GA, Lockey
RF: Immunochemical analysis of bahia grass (*Paspalum notatum*) pollen
extract. *J Allergy Clin Immunol* 87(1): 185, 199.

Askar ME, Wright DN, Ledford DK, Krzanowski JJ, Lockey RF:
The effect of propranolol on murine keratinocyte suspension supernatant derived relaxing factor. J Clinical Research 39:(2), April 1991
Presented at the Annual Meeting of the American Federation for Clinical Research, Seattle, Washington, May 3-6, 1991
Askar ME, Ledford DK, Krzanowski JJ, Lockey RF:
The effect of N-methyl-arginine and alpha-glucosidase on murine keratinocytes suspension supernatant-derived relaxing factor.
Presented at the Annual Meeting of Southeastern Allergy Association, Oct. 3-5, 1991

Askar ME, Wright DN, Ledford DK, Krzanowski JJ, Lockey RF:
The effect of trypsin on murine keratinocytes suspension supernatant-derived relaxing factor.

J of Chest 100: 2 Aug. 1991. Presented at 57th Annual meeting of the American College of Chest Physicians, Nov. 4-8, 1991

Askar ME, Ledford DK, Krzanowski JJ, Lockey RF:
Characterization of the molecular weight of the murine keratinocyte suspension supernatant (MKSS) derived bronchial smooth muscle relaxing factor. J Allergy Clin Immunol 89 (2): 337, 1992

Askar ME, Ledford DK, Krzanowski JJ, Lockey RF:
Characterization of keratinocytes derived relaxing factor that modifies bronchial smooth muscle contractility.
J Allergy Clin Immunol 91: 208a, 1993.

Ledford DK, Stewart GE, Diaz JP, Trudeau WL, Seleznick M, Lockey RF:
Comparison of oral pulse methotrexate with placebo in treatment of severe glucocorticosteroid dependent asthma.
J Allergy Clin Immunol 91: 168a, 1993

Fernandez-Caldas E, Trudeau WL, Stewart GE, Swanson MC, Stanaland BE, Ledford DK, Lockey RF:
Seasonal variations of Group I mite allergens in homes in Tampa, Florida. J Allergy Clin Immunol 91: 327a, 1993

Andrade J, Fernandez-Caldas E, Trudeau WL, Ledford D, Souza-Lima E, Souza-Lima I Swanson MC, Lockey RF:
Serial determinations of Der p1 and Der fl show predominance of one Dermatophagoides species.
J Allergy Clin Immunol 1994; 93:256a

Nelson Jr. RP, Ledford DK, Zhou VA, Bergen-Losee L, Lockey RF:
Quantitative RNA Levels Before and After Influenza Immunization in HIV-Infected Adults. XIth International Conference on AIDS, Vancouver, British Columbia, July 7-12, 1996

Fernandez-Caldas E, Trudeau WL, Ledford DK, Lockey RF:
How useful are room dehumidifiers to control mite allergen levels in bedroom carpets in a subtropical city? American Academy of Allergy, Asthma and Immunology 53rd Annual Meeting, San Francisco, California, February 21-26, 1997.
J Allergy Clin Immunol 99(1): S161, January 1997

Rosenbach KP, Ledford DK, Lockey RF:
 Long-term use of Budesonide Turbuhaler on Steroid Dependent Asthmatics. American Academy of Allergy, Asthma and Immunology 53rd Annual Meeting, San Francisco, California, February 21-26, 1997. *J Allergy Clin Immunol* 99 (1): S327, January 1997 XVIth International Congress of Allergology and Clinical Immunology Cancun, Mexico, October 19-24, 1997

Kasti GL, Codina R, Ledford DK, Lockey RF:
 Mite Contamination of Food Stuffs. American Academy of Allergy, Asthma and Immunology 54th Annual Meeting, Washington, D.C., March 13-18, 1998. *J Allergy Clin Immunol* 101 (1) Part 2: S26, January 1998

Thompson M, Shearer D, Lockey R, Fox R, Ledford DK:
 Systemic Reactions to Percutaneous (P) and Intradermal (ID) Skin Tests (ST). American Academy of Allergy, Asthma and Immunology 54th Annual Meeting, Washington, D.C., March 13-18, 1998. *J Allergy Clin Immunol* 101 (1) Part 2:S30, January 1998

Theodoropoulos DS, Ledford DK, Lockey RF, Pecoraro DL, Rodriguez JA, Johnson MC, Boyce HW:
 Gastroesophageal Reflux Disease (GERD) Associated Symptom Scores Correlate with a Numbers of Reflux Episodes. American Academy of Allergy, Asthma & Immunology 57th Annual Meeting. *J Allergy Clin Immunol* 107(2): S49, February 2001

Singam R, Ledford D, Lockey RF, Mohapatra SS. The use of fluticasone propionate (FP) with salmeterol (S) is a more effective treatment than FP alone for respiratory syncytial virus (RSV) infection-induced airway inflammation in the presence or absence of allergen sensitization. ATS 2004 International Conference, May 21-26, Orlando, Florida. *Amer Journal of Resp & Critical Care Med* 169(7): A126, April, 2004.

Bernstein D, Nathan R, Ledford D, Ledoux E, Pedinoff A, Crivera C, Williams J, Kundu S, Baerji D. Ciclesonide, a new inhaled corticosteroid, significantly improves asthma-related quality of life in patients with severe, persistent asthma. *J Allergy Clin Immunol* 2005;

Bagg A, Ledford D, Lockey RF. Progesterone associated angioedema and vasculitis. *J Allergy Clin Immunol* 2005;

Cole SL, Ledford DK. Development of hypocomplementemic urticarial vasculitis syndrome following intracoronary stent placement. *J Allergy Clin Immunol* 2007;

Franck R, Chacko T, Ledford D, Lockey RF. Churg-Strauss presenting as pulmonary embolism, lymphadenopathy and eosinophilia. *J Allergy Clin Immunol* 2007;

Pesek R, Ledford D. A desensitization protocol for eculizumab in the treatment of paroxysmal nocturnal hemoglobinuria. *Ann Allergy Asthma Immunol* 2009;

Butt A, Alkhalil M, Ledford D, Lockey RF. Methotrexate for Urticarial Vasculitis and Angioedema and Cryoglobulinemia. World Allergy Organization International Scientific Conference (WISC), poster 2305, December 5-8, 2010, Dubai, United Arab Emirates.

Pesek R, Ledford DK, Tanaka A, Bradley WG. The Effects of Polyphenylpropanoid-polysaccharide (PPC) on OVA-sensitized Balb, cJ Mice. *J Allergy Clin Immunol* 2011;127:AB5.

Alkhalil M, Shearer D, Hattaway S, Fox R, Glaum M, Ledford D, Lockey RF: Body Mass Index (BMI) and Immediate ("Stat") Dose of Epinephrine IM (epi IM) Needed to Treat Subcutaneous Allergen Immunotherapy (SCIT) Systemic Reactions (SRs). XXII World Allergy Congress, Cancun, Mexico, December 4 – 8, 2011.

Talreja N, Jelks M, Haq M, Hellermann G, Ledford DK, Lockey RF: Effect of Meteorological Parameters on Airborne Fungal Spore Counts: Sixteen Year Study (1995 – 2010) in Sarasota, FL. 68th Annual American Academy of Allergy, Asthma & Immunology Meeting, Orlando, FL, March 2 – 6, 2012. *J Allergy Clin Immunol* 2012; 129(2): AB17 (# 65).

Lockey RF, Talreja N, Ledford DK: Effect of Inhaled Corticosteroids with Long-Acting Beta2 Agonists vs. Inhaled Corticosteroid Alone on Asthma Control in Children: Results from National Asthma Survey (Poster). XXIII World Allergy Organization International Scientific Congress (WISC), Hyderabad, India, December 6– 9, 2012.

Lockey RF, Talreja N, Ledford DK. Asthma diagnosis and treatment – 1018. Effect of inhaled corticosteroids with long-acting beta2 agonists vs. inhaled corticosteroids alone on asthma control in children: results from national asthma survey. *World Allergy Organ. J.* 2013 Apr 23;6 Suppl 1:P18.doi: 10.1186/1939-4551-6-S1-P18. Epub 2013 Apr 23. PubMed PMID: 23819646; PubMed Central PMCID: PMC2643236.

Talreja N, Ledford DK, Lockey RF: Effect of Inhaled Corticosteroids (ICS) Vs. Inhaled Corticosteroid with Long-Acting Beta2 Agonists (ICS/LABA) On Asthma Control: Results From National Asthma Survey. 69th Annual American Academy of Allergy, Asthma & Immunology Meeting, San Antonio, TX, February 22 – 26, 2013. *J Allergy Clin Immunol (Suppl)* 2013; 131(2): AB230 (#816).

Glaum MC, Rifkin E, Wang JW, Lockey RF, Ledford DK: Real-Time PCR Quantification of Virginia Live Oak (*Quercus virginiana*) Pollen. 70th Annual American Academy of Allergy, Asthma & Immunology Meeting, San Diego, CA, February 28 – March 4, 2014.

Schranz J¹, Ledford D², Gower R³, Soteres D, Jacobson K, Li H, Lumry W, Fitts D¹, Kreuz W. Safety and efficacy of C1 esterase inhibitor for acute attacks in children with hereditary angioedema less than 12 years of age. Will be presented at the European Academy of Allergy and Clinical Immunology Congress Meeting June 7-11, 2014, Copenhagen, Denmark.

M. Maurer MD, Berlin, Germany, P. Staubach MD, Mainz, Germany, M. Ashby PhD, South San Francisco, CA, USA, J. Canvin MD, Horsham, Sussex, United Kingdom, D. Ledford, MD Tampa, FL, USA, A. Kaplan MD Charleston, South Carolina, USA, T. Jakob MD, Freiburg, Germany, K. Rosen MD, South San Francisco, CA, USA: The Safety and Efficacy of Omalizumab in Chronic Idiopathic/Spontaneous Urticaria – will be presented at the Western Allergy & Immunology meeting in 2014.

M. Maurer MD, Berlin, Germany, P. Staubach MD, Mainz, Germany, M. Ashby PhD, South San Francisco, CA, USA, J. Canvin MD, Horsham, Sussex, United Kingdom, D. Ledford, MD Tampa, FL, USA, A. Kaplan MD Charleston, South Carolina, USA, T. Jakob MD, Freiburg, Germany, K. Rosen MD, South San Francisco, CA, USA: The Safety and Efficacy of Omalizumab in Chronic Idiopathic/Spontaneous Urticaria – will be presented at the Australasian College of Dermatologists annual scientific meeting in Melbourne, 18-21 May 2014.

**Tapes/Recorded
Lectures**

One hour tape recording,
Journal Club Allergy; Omega Communications, Inc., review of the 42nd Annual Meeting of the American Academy of Allergy and Immunology, New Orleans, Louisiana, March 1986

One hour tapes recording,
Medical Outlook for Allergists and Pulmonary Disease Physicians, "The Effects of Lawnmowing on Airborne Pollen and Fungal Spores", Cortlandt Group, Inc., Tampa, Florida, June 11, 1986

Latex Allergy, Southern Medical Association, 1995

Current Views in Allergy and Immunology, GERD and Upper Airway Complaints, July 2006

Clinical Research
Principal Investigator
2000-2013

2001 A PHASE II, RANDOMIZED, PLACEBO-CONTROLLED, DOUBLE-BLIND, PARALLEL GROUP, DOSE-FINDING STUDY TO EVALUATE THE EFFECTIVENESS OF 28 DAYS OF TREATMENT WITH XXXXX IN ADULT ASTHMATICS

2001 A Multi-Centre, Multinational, Double-Blind, Double-Dummy, Placebo-Controlled, Group Comparative Study to Investigate the Effects of XXXXX via pMDI Compared with XXXXX in Adult Patients with Chronic Obstructive Pulmonary Disease (COPD)

2001 XXXXX THERAPY OF PERENNIAL NONALLERGIC RHINITIS DOUBLE-BLIND, PLACEBO CONTROLLED TRIAL

2000 A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL- GROUP, MULTIPLE DOSE, MULTICENTER, 12-WEEK STUDY TO COMPARE THE SAFETY AND EFFICACY OF XXXXX VIA THE "TO-BE-MARKETED" SPIROS® DRY POWDER INHALER TO XXXXX METERED-DOSE INHALER IN PATIENTS WITH ASTHMA

2000 EFFICACY AND SAFETY OF TWO FORMULATIONS OF XXXXX MG COMPARED TO XXXXX 5 MG AND XXXXX 240 MG QD SUSTAINED RELEASE, IN THE TREATMENT OF SUBJECTS WITH SEASONAL ALLERGIC RHINITIS

2000 A MULTI-CENTER, DOUBLE-BLIND, PLACEBO-CONTROLLED, GROUP COMPARATIVE STUDY TO INVESTIGATE THE LONG TERM safety of XXXXX via pMDI in Adult Patients with Chronic Obstructive Pulmonary Disease(COPD)

2000 A MULTI-CENTER, DOUBLE-BLIND, PLACEBO-CONTROLLED, GROUP COMPARATIVE STUDY TO INVESTIGATE THE LONG TERM SAFETY OF XXXXX VIA PMDI IN ADULT PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)

2000 MULTI-center, Double-Blind, Placebo-Controlled, Group-Comparative Study to Investigate the Long-Term Safety of XXXXX via pMDI in Adult Patients with Chronic Obstructive Pulmonary Disease (COPD)

2001 A STRATIFIED, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL-GROUP, 12-WEEK TRIAL EVALUATING THE SAFETY AND EFFICACY OF THE XXXXX DISKUS COMBINATION PRODUCT 100/50MCG ONCE DAILY VERSUS XXXXX PROPIONATE DISKUS 100MCG ONCE DAILY AND PLACEBO IN SYMPTOMATIC PEDIATRIC SUBJECTS (4-11 YEARS) WITH ASTHMA

2001 A Multicentre, Randomised, Double-Blind, Parallel Group, Placebo-Controlled Study to Investigate the Long-Term Effects of XXXXXX 50/500µg BD, XXXX50µg BD and XXXX 500µg BD, All Delivered via the Diskus/™ Accuhaler™ Inhaler, on the Survival of Subjects with Chronic Obstructive Pulmonary Disease (COPD) over 3 Years of Treatment.

2002 INHALED CORTICOSTEROID REPLACEMENT STUDY - EFFICACY AND SAFETY OF XXXX IN MODERATE PERSISTENT ASTHMA – PHASE II

2002 DOSE-RANGING STUDY OF XXXX IN PATIENTS WITH PERSISTENT ASTHMA NOT TREATED WITH INHALED CORTICOSTEROIDS - PHASE II

2002 A Multicenter, Open-Label, Randomized, Active-Controlled, Parallel Group Chronic Safety Study of XXX in the Treatment of Subjects with Chronic Obstructive Pulmonary Disease

2002 A Double-Blind, Double-Dummy, Randomized, Placebo- and Active-Controlled, Multicenter, Parallel-Group Study of XXXX in the Treatment of Subjects with Chronic Obstructive Pulmonary Disease

2002 "A TWELVE-WEEK, RANDOMIZED, DOUBLE-BLIND, DOUBLE-DUMMY, PLACEBO-CONTROLLED TRIAL OF XXXX™ (160/4.5MCG) VERSUS ITS MONO-PRODUCTS (XXXXX AND XXXX) IN ADOLESCENTS (≥ 12 YEARS OF AGE) AND ADULTS WITH ASTHMA-XXXXX 160/4.5"

2002 Twelve Week, Randomized, Double-Blind, Double-Dummy, Placebo-Controlled Trial of XXXXX™ (80/4.5 mcg) versus its mono-Products (XXXXX and XXXXX) in Children (≥ 6 Years of age) and Adults with Asthma- XXXXX 80/4.5

2001 A CLINICAL INVESTIGATION TO ASSESS THE SAFETY AND EFFICACY OF XXXXXXXX INTRAVENOUS (HUMAN), 10% IN SUBJECTS WITH PRIMARY IMMUNODEFICIENCY DISORDERS

2000 A PHASE III, 28-WEEK, MULTICENTRE, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL-GROUP STUDY TO ASSESS THE EFFICACY, SAFETY AND TOLERABILITY OF SUBCUTANEOUS XXXXX INITIATED POST HOSPITALIZATION OR EMERGENCY ROOM ADMISSION IN ADOLESCENT AND ADULT ASTHMATICS WITH A HISTORY OF SIGNIFICANT ASTHMA EXACERBATIONS

2003 A DOUBLE-BLIND, DOUBLE-DUMMY, RANDOMIZED, PLACEBO-AND ACTIVE-CONTROLLED, MULTICENTER, PARALLEL-GROUP STUDY OF (R,R) –XXXXX IN THE TREATMENT OF SUBJECTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE

2003 RANDOMIZED, MULTICENTER, PLACEBO-CONTROLLED PARALLEL GROUP STUDY OF FOUR MONTHS DURATION PER PATIENT TO EVALUATE THE SAFETY AND EFFICACY OF TREATMENT WITH 24µg B.I.D. AND 12µg B.I.D. XXXX, DOUBLE-BLIND, AND 12µg B.I.D. XXXX WITH ADDITIONAL ON-DEMAND XXXX DOSES, OPEN-LABEL, IN ADOLESCENT AND ADULT PATIENTS WITH PERSISTENT STABLE ASTHMA

2004 DOSE-RANGING STUDY OF RO 27-2441 IN PATIENTS WITH PERSISTENT ASTHMA NOT TREATED WITH INHALED CORTICOSTEROIDS- PHASE II

2004 INHALED CORTICOSTEROID REPLACEMENT STUDY-EFFICACY AND SAFETY OF RO 27-2441 IN MODERATE PERSISTENT ASTHMA- PHASE II

2004 A TWELVE WEEK, RANDOMIZED, DOUBLE-BLIND, DOUBLE-DUMMY, PLACEBO-CONTROLLED TRIAL OF XXXX (160/4.5 MCG) VERSUS ITS MONO-PRODUCTS (XXXXX AND XXXXX) IN ADOLESCENTS (> OR EQUAL TO 12 YEARS OF AGE) AND ADULTS WITH ASTHMA-SPRUCE 160/4.5

2004 A TWELVE WEEK, RANDOMIZED, DOUBLE-BLIND, DOUBLE-DUMMY, PLACEBO-CONTROLLED TRIAL OF XXXXX (80/4.5 MCG) VERSUS ITS MONO-PRODUCTS (XXXXX AND XXXXX) IN CHILDREN (> OR EQUAL TO 6 YEARS OF AGE) AND ADULTS WITH ASTHMA-SPRUCE 80/4.5

2004 A STRATIFIED, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL-GROUP, 12-WEEK TRIAL EVALUATING THE SAFETY AND EFFICACY OF THE XXXXXX/XXXXX DISKUS COMBINATION PRODUCT 100/50 MCG ONCE DAILY VERSUS XXXXXX DISCUS 100MCG ONCE DAILY AND PLACEBO IN SYMPTOMATIC PEDIATRIC SUBJECTS (4-11 YEARS) WITH ASTHMA

2004 A RANDOMIZED, MULTICENTER, PLACEBO-CONTROLLED PARALLEL GROUP STUDY OF FOUR MONTHS DURATION PER PATIENT TO EVALUATE THE SAFETY AND EFFICACY OF TREATMENT WITH 24UG B.I.D. AND 12 UGB.I.D. XXXXX, DOUBLE-BLIND, AND 12UG B.I.D. XXXXX WITH ADDITIONAL ON-DEMAND XXXXXX DOSES, OPEN-LABEL, IN ADOLESCENT AND ADULT PATIENTS WITH PERSISTENT STABLE ASTHMA

2005 A 12-Month Double-blind, Double-Dummy, Randomized, Parallel group, Multicenter Efficacy and Safety Study of XXXXX pMDI 2 x160/4.5 µg bid and 2 x 80/4.5 µg bid Compared to XXXXX 2 x 4.5µg bid and Placebo in Patients with COPD

2005 Phase II, RANDOMIZED, DOUBLE-BLIND, PARALLEL-GROUP, PLACEBO-CONTROLLED, ORAL FOOD CHALLENGE TRIAL OF XXXXXX IN PEANUT ALLERGY

2007 A 12-Month Double-Blind, Randomized, Parallel Group, Multicenter Efficacy and Safety Study of XXXXX pMDI 2 x 160/4.5 ug bid and 2 x 80/4.5 ug bid Compared to XXXXX TBH 2.4.5 ug bid and Placebo in Patients with COPD - D5899C00001

2008 A 12-week, randomized, double-blind, double dummy, multi-center, phase IV study comparing the efficacy and safety of XXXX pMDI 160/4.5 µg x 2 actuations twice daily versus budesonide inhalation powder DPI 180 µg x 2 inhalations twice daily, in adult and adolescent (≥12 years) African American subjects with asthma

2008 A 52-WEEK RANDOMIZED, DOUBLE-BLIND, PARALLEL GROUP, PLACEBO CONTROLLED, MULTICENTER CLINICAL TRIAL, TO ACCESS THE EFFICACY AND SAFETY OF 200 UG XXXXXXXX, ALSO KNOWN AS XXXXXXXX COMPARED TO PLACEBO, BOTH ADMINISTERED ONCE-DAILY BY INHALATION, IN THE MAINTENANCE TREATMENT OF PATIENTS WITH MODERATE TO SEVERE, STABLE CHRONIC OBSTRUCTIVE PULMONARY DISEASE – PROTOCOL M/34273/31

2008 ROCHE INTEGRIN ANTAGONIST FOLLOW-UP FOR UNDETECTED PML

2009 LAS-MD-33: Efficacy and safety of XXXXX at two dose levels (200 µg twice daily, 400 µg twice daily) vs. placebo when administered to patients with moderate to severe chronic obstructive pulmonary disease (COPD)

2009 LAS-MD-35: A Long-Term, Randomized, Double-blind Study of the Safety, Tolerability and Efficacy of XXXXX At Two Dosage Levels When Administered to Patients With Moderate to Severe, Stable Chronic Obstructive Pulmonary Disease

2009 LAS-MD-36: A Long-term, Randomized, Double-blind, Extension Study of the Safety, Tolerability and Efficacy of XXXXX at Two Dosage Levels When Administered to Patients With Moderate to Severe Chronic Obstructive Pulmonary Disease

2009 LAC-MD-27: Efficacy and Safety Study of Two Fixed-Dose Combinations of XXXXX with Two Doses of XXXXX Compared with XXXXX, and Placebo all Administered Twice Daily (BID) to Patients with Stable, Moderate to Severe Chronic Obstructive Pulmonary Disease (COPD) [protocol no. 0624-203]

2010 OPEN-LABEL, SINGLE-DOSE STUDY TO EVALUATE THE RESPONSE AND PHARMACOKINETICS/PHARMACODYNAMICS OF DIFFERENT DOSES OF CINRYZE™ [C1 INHIBITOR (HUMAN)] FOR TREATMENT OF ACUTE ANGIOEDEMA ATTACKS IN CHILDREN LESS THAN 12 YEARS OF AGE WITH HEREDITARY ANGIOEDEMA

2011 MEASUREMENT OF NATRIURETIC HORMONE PEPTIDES IN EXACERBATION OF ASTHMA

2011 ROF-MD-07: A 52-Week, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study to Evaluate the Effect of XXXX 500 µg on Exacerbation Rate in Subjects With Chronic Obstructive Pulmonary Disease (COPD) Treated With a Fixed-Dose Combination of Long-Acting Beta Agonist and Inhaled Corticosteroid (LABA/ICS)

2011 LAC-MD-31: A Phase III, Randomized, Double-blind, Placebo-Controlled Study Evaluating the Efficacy, Safety, and Tolerability of Two Fixed Dose Combinations of XXXXX Compared With XXXXX and Placebo for 24-Weeks Treatment in Patients With Moderate to Severe, Stable Chronic Obstructive Pulmonary Disease (COPD)

2011 LAC-MD-32: A Long-Term, Randomized, Study of the Safety and Tolerability of a Fixed-Dose Combination of XXXXX compared with XXXXX in Patients With Moderate to Severe, Stable Chronic Obstructive Pulmonary Disease (COPD)

2011 Q4883g: A PHASE III, MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED SAFETY STUDY OF XXXXX (OMALIZUMAB) IN PATIENTS WITH CHRONIC IDIOPATHIC URTICARIA (CIU) WHO REMAIN SYMPTOMATIC DESPITE TREATMENT WITH H1 ANTIHISTAMINES, H2 BLOCKERS, AND/OR LEUKOTRIENE RECEPTOR ANTAGONISTS

2012 A PHASE IIB STUDY TO EVALUATE THE EFFICACY, SAFETY AND DOSING REGIMENS OF MEMP1972A IN ADULTS WITH ALLERGIC ASTHMA WHO ARE INADEQUATELY CONTROLLED ON INHALERS

2012 STUDY OF THE BRONCHODILATOR EFFECTS OF XXXXX INHALED POWDER

2012 STUDY TO EVALUATE THE SAFETY AND EFFICACY OF SUBCUTANEOUS ADMINISTRATION OF XXXXX

2012 A STUDY OF THE EFFICACY, SAFETY AND TOLERABILITY OF TWO FIXED DOSE COMBINATIONS OF XXXXXXXXXXXX, XXXXXXXXXXXX

2012 A 12 WEEK DOES RANGING STUDY TO EVALUATE THE EFFICACY AND SAFETY OF XXXX ADMINISTERED TWICE DAILY COMPARED WITH PLACEBO IN ADOLESCENT AND ADULT SUBJECTS

2012 (PCE) PERENNIAL RHINITIS PINE CONE EXTRACT PROTOCOL

2012 PREVALENCE OF FOOD ALLERGIES IN A COHORT OF ADULT PATIENTS WITH EOSINOPHILIC ESOPHAGITIS

2012 A COMPARISON OF MICRORNA SAMPLES IN PATIENTS WITH NASAL POLYPS AND ASPIRIN EXACERBATED RESPIRATORY DISEASE AND THOSE WITH NASAL POLYPS ONLY

2013 A ONE YEAR STUDY EVALUATING THE EFFICACY AND SAFETY OF THE HOUSE DUST MITE SUBLINGUAL ALLERGEN IMMUNOTHERAPY TABLET IN CHILDREN AND ADULTS

Clinical Research
Sub-Investigator
2000-

2000 XXXX CARDIOVASCULAR TREATMENT ASSESSMENT VERSUS XXXXXX

2000 A Safety, Efficacy and Tolerability Study of Once-Daily Doses of XXXXXX Inhalation Solution in Asthma

2001 A TWELVE- MONTH SAFETY STUDY OF XXXXXXXX QD IN SUBJECTS WITH PERENNIAL ALLERGIC RHINITIS/SEASONAL ALLERGIC RHINITIS

2004 A Long Term Safety Study of XXXXXXXX and XXXXXX in Subjects Twelve Years of Age and Older with Asthma

2003 TWELVE-WEEK, RANDOMIZED, DOUBLE-BLIND, DOUBLE-DUMMY, PLACEBO AND ACTIVE CONTROLLED STUDY OF XXXXXXXX ADMINISTERED ONCE DAILY IN ADULTS AND ADOLESCENTS WITH ASTHMA –

2002 A PLACEBO-CONTROLLED COMPARISON OF THE EFFICACY, SAFETY, AND PHARMACOKINETICS OF THE CURRENT US VERSION OF XXXXXX TURBUHALER® AND THE NEW VERSION OF XXXXXX TURBUHALER® IN ASTHMATIC CHILDREN AND ADOLESCENTS

2004 Determination of Indoor Levels of Fungal Spores by Non-Culture Sampling Method in Central Florida Homes Without Obvious Moisture Problems

2001 A DOUBLE-BLIND, DOUBLE-DUMMY, PARALLEL-GROUP, MULTI-CENTER, RANDOMIZED STUDY OF XXXXX 180 MG vs. XXXXXX 10 MG IN SUBJECTS WITH MODERATE TO SEVERE SEASONAL ALLERGIC RHINITIS (SAR) DURING THE FALL ALLERGY SEASON

2001 A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY TO EVALUATE THE CLINICAL EFFICACY, VIROLOGIC ACTIVITY, AND SAFETY OF XXXX(ORAL SUSPENSION) IN THE TREATMENT OF VIRAL RESPIRATORY INFECTION IN CHILDREN 7 TO 12 YEARS OF AGE

2001 A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY TO EVALUATE THE CLINICAL EFFICACY, VIROLOGIC ACTIVITY, AND SAFETY OF XXXXX (ORAL SUSPENSION) IN THE TREATMENT OF VIRAL RESPIRATORY INFECTION IN CHILDREN 1 TO 6 YEARS OF AGE

2001 Placebo Controlled Efficacy and Safety Study of a Once-Daily PM and Twice Daily Regimens of XXXXXXXX Administered Via Dry Powder Inhaler in Subjects with Asthma Who Were Previously Maintained on Inhaled Corticosteroids

2001 A Phase II, Randomized, Placebo-Controlled, Double-Blind, Parallel Group, Dose-Finding Study to Evaluate the Effectiveness of 28 Days of Treatment with XXXXX in Adult Asthmatics

2001 A RANDOMIZED, DOUBLE-BLIND, DOUBLE DUMMY, PARALLEL GROUP COMPARISON OF XXXXXXXX (50 MCG BID) VIA XXXXX(5 MG QD) CHEWABLE TABLETS IN CHILDREN 6-12 YEARS OF AGE WITH PERSISTENT ASTHMA

2001 A Multi-Center, Randomized, Double-Blind, Double-Dummy, Parallel-Group Comparison of XXXXXXXX Inhalation Aerosol Versus XXXXXXXX and XXXXXXXX Inhalation Aerosol in Subjects With Chronic Obstructive Pulmonary Disease

2000 A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, CROSSOVER TRIAL OF THE SAFETY OF INACTIVATED INFLUENZA VACCINE IN ADULTS AND CHILDREN WITH ASTHMA

2000 ALLERGY TO FERRET

2000 Melaleuca tree and respiratory disease

2000 A ONE WEEK, DOUBLE-BLIND, RANDOMIZED, PLACEBO-CONTROLLED DOSE-CONFIRMING STUDY TO DETERMINE THE EFFICACY AND SAFETY OF XXXX ADMINISTERED TO CHILDREN WITH ASTHMA

2000 Efficacy and Safety of Combination XXXXXvs. its Components vs. Placebo in the Treatment of Subjects with Seasonal Allergic Rhinitis

2000 A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL-GROUP, MULTICENTER TRIAL TO DETERMINE THE EFFICACY OF XXXXX WHEN ADMINISTERED ACCORDING TO CURRENT LABELING INSTRUCTIONS OR SIMPLIFIED DOSING INSTRUCTIONS IN SUBJECTS WITH ASTHMA RECEIVING INHALED β_2 -AGONIST ALONE OR INHALED β_2 -AGONIST IN COMBINATION WITH INHALED CORTICOSTEROIDS (ICS)

2000 EFFICACY AND SAFETY OF COMBINATION XXXXXXXX VS. ITS COMPONENTS IN THE TREATMENT OF SUBJECTS WITH SEASONAL ALLERGIC RHINITIS

2000 RHINITIS IN PATIENTS WITH GASTROESOPHAGEAL REFLUX: PREVALENCE AND CHARACTERIZATION

2000 12 WEEKS TREATMENT WITH 250 μ G XXXXXXXX VERSUS 500 μ G XXXX VERSUS 10MG XXXXX VERSUS PLACEBO IN PATIENTS WITH ASTHMA.

2000 12 WEEKS TREATMENT WITH 250 μ G XXXXX VERSUS 500 μ G XXXXX VERSUS PLACEBO ADDED TO 200 μ G XXXXXXXX IN PATIENTS WITH ASTHMA

2000 A Randomized, Double-Blind, Parallel Group Comparison of the Safety and Efficacy of Three Once Daily Doses of XXXXX with Placebo and XXXXX Daily in Patients with Symptomatic Asthma

2000 A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, CROSSOVER TRIAL OF THE SAFETY OF INACTIVATED INFLUENZA VACCINE IN ADULTS AND CHILDREN WITH ASTHMA

2000 A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, CROSSOVER TRIAL OF THE SAFETY OF INACTIVATED INFLUENZA VACCINE IN ADULTS AND CHILDREN WITH ASTHMA

2000 A MULTICENTER, RANDOMIZED, DOUBLE-BLIND STUDY COMPARING THE CLINICAL EFFECT OF XXXXXX IN PATIENTS WITH ACUTE ASTHMA

2000 A Randomized, Double-Blind, Multicenter Study to Evaluate the Effect of Adding Either XXXXXX or XXXXXX to XXXXXX in Adult Asthmatics

2000 A TWELVE MONTH, OPEN LABEL STUDY OF XXXXXX IN ADULTS AND ADOLESCENTS WITH ASTHMA

2000 ADVIL MULTI-SYMPATOM ALLERGY SINUS EFFICACY AND SAFETY STUDY

2000 A Phase III, Multicenter, Double-Blind, Parallel Group Study Assessing the Effects of XXXXX on Growth in Asthmatic Children

2000 Phase I, Open-Label Investigation of Safety and Pharmacokinetics of XXXXXX 5% Solution in Patients with Primary Immunodeficiency Disorders

2000 A MULTICENTER, OPEN-LABEL, RANDOMIZED, PARALLEL GROUPS STUDY TO ASSESS THE LONG-TERM SAFETY PERFORMANCE OF XXXXX COMPARED TO XXXXX IN SUBJECTS WITH ASTHMA

2002 "SAM40065: A MULTI-CENTER, RANDOMIZED, DOUBLE-BLIND, PARALLEL GROUP, 40-WEEK COMPARISON OF ASTHMA CONTROL USING BRONCHIAL HYPERRESPONSIVENESS AS AN ADDITIONAL GUIDE TO LONG-TERM TREATMENT IN ADOLESCENTS AND ADULTS RECEIVING EITHER XXXXXXXX OR XXXXXXXX (OR PLACEBO BID IF ASYMPTOMATIC)"

2000 An Ascending Four Dose Placebo Controlled Study to Assess the Efficacy and Tolerability of XXXXXX Administered Following Onset of Acute Attacks of Hereditary Angioedema

2003 A Randomized, Controlled Study of XXXX (250 mcg and 500 mcg) Versus Placebo in Patients with Asthma

2003 A MULTI-CENTER, MULTINATIONAL, RANDOMIZED, DOUBLE-BLIND, PARALLEL GROUP STUDY OF THE EFFECTS OF XXXXXX 640 µG/DAY AND XXXX 640 µG/DAY ON LENS OPACIFICATION IN ADULT SUBJECTS WITH MODERATE TO SEVERE PERSISTENT ASTHMA

2000 Study of Acid Reflux and Asthma (SARA)

2000 A Two-Part Study to Evaluate the Safety of XXXXXX in Adult Subjects With Mild, Intermittent Asthma

2002 COMPARISON OF CONTINUED LOW-DOSE INHALED CORTICOSTEROIDS VERSUS XXXXX FOR ASTHMATIC PATIENTS WELL CONTROLLED WITH LOW DOSE INHALED CORTICOSTEROIDS

2003 EFFECT OF EDUCATION AND DRUG PRESENTATION ON EFFICACY OF XXXXX AND PLACEBO IN ASTHMA

2000 URTI SYMPTOM SCORE PILOT STUDY

2000 EDEMA 2: EVALUATION OF XXX EFFECTS IN MITIGATING ANGIOEDEMA. AN OPEN LABEL STUDY TO ASSESS THE EFFICACY AND TOLERABILITY OF REPEATED DOSES OF XXX IN PATIENTS WITH HEREDITARY ANGIOEDEMA

2000 A FOUR WEEK, DOUBLE BLIND, PLACEBO-CONTROLLED EXPLORATORY EVALUATION OF FEV_{1.0} CHANGES AND SAFETY OF XXXXXX IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)

2000 DOUBLE BLIND STUDY OF THE EFFICACY, SAFETY, AND PHARMACOECONOMICS OF XXXXXXXX AS COMPARED TO XXXXXX IN PATIENTS WITH ASTHMA

2000 AN OBSERVATIONAL STUDY OF THE EPIDEMIOLOGY AND NATURAL HISTORY OF ASTHMA: OUTCOMES AND TREATMENT REGIMENS (TENOR)

2000 A Phase II, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Arm, Dose Comparison Study of the Efficacy and Safety of Oral 25mg, 50mg, 75mg XXXX, and Placebo in the Treatment of Patients with Chronic Obstructive Pulmonary Disease

2000 POSSIBLE ALLERGENICITY OF OAK ACORNS

2000 EFFECT OF AGING AND THE EFFECT OF SUN DAMAGE ON ALLERGY SKIN TESTS

2000 Parietaria floridana and allergic rhinitis in the Tampa Bay Area

2000 THE EFFICACY OF XXXXXX AND VACUUM CLEANING IN LOWERING HOUSE DUST MITE POPULATION AND HOUSE DUST MITE ALLERGEN LEVELS IN HOMES IN TAMPA, FL

2000 THE EFFICACY OF XXXXXX AND VACUUM CLEANING IN LOWERING HOUSE DUST MITE POPULATION AND HOUSE DUST MITE ALLERGEN LEVELS IN HOMES

2004 EFFECT OF EDUCATION AND DRUG PRESENTATION ON EFFICACY OF XXXXXXXX AND PLACEBO IN ASTHMA

2004 A Randomized, Double-Blind, Active-Controlled, Parallel-Group, Single-Dummy, Multicenter, 12 Week Study to Assess the Efficacy and Safety of XXXXX® pMDI 160/4.5 µg x 2 Actuations Once-Daily (QD) Compared to XXXX MDI 80/4.5 µg x 2 Actuations QD, XXXX pMDI 80/4.5 µg x 2 Actuations Twice-Daily (BID) and to XXXX pMDI 160 µg x 2 Actuations QD in Asthmatic Subjects 12 years of Age and Older

2004 AN ASCENDING FOUR DOSE PLACEBO CONTROLLED STUDY TO ASSESS THE EFFICACY AND TOLERABILITY OF XXXX (RECOMBINANT PLASMA KALLIKREIN INHIBITOR) ADMINISTERED FOLLOWING ONSET OF ACUTE ATTACKS OF HEREDITARY ANGIOEDEMA

2004 A STRATIFIED, MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PARALLEL GROUP, 4-WEEK COMPARISON OF /XXXXXX DISKUS COMBINATION PRODUCT 100/50MCG BID VERSUS XXXXXXXX DISKUS 100MCG BID IN PEDIATRIC AND ADOLESCENT SUBJECTS WITH ACTIVITY INDUCED BRONCHOSPASM

2004 A Randomized, Parallel Group, Double-Blind, Comparative Trial Assessing Lung Function and Other Measures of Asthma Control in Adults and Adolescents, at least 12 Years of Age, with Persistent Asthma, Who Have Either a B16-Arg/Arg, a B16-Gly/Gly or a B-16 Arg/Gly Genotype and are Treated With XXXXX DISKUS Combination Product 100/50mcg or XXXXXX DISKUS 50 mcg BID

2004 A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter Study to Evaluate the Efficacy and Safety of Once-Daily, Intranasal Administration, of XXXXX Aqueous Nasal Spray 100 mcg for 4 Weeks in Adult and Adolescent Subjects (≥ 12 years of age) with Perennial Allergic Rhinitis (SAR)

2004 A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter Study to Evaluate the Efficacy and Safety of Once-daily, Intranasal Administration of XXXXX Aqueous Nasal Spray 50mcg and 100mcg for 2 weeks in Pediatric Subjects Ages 2 to <12 Years with Seasonal Allergic Rhinitis (SAR).

2005 A Randomized, 24-week, Double-blind, Placebo-controlled, Parallel-group Study to Evaluate the Efficacy, Safety and Tolerability of XXXXX (15mg BID) in Patients with Chronic Obstructive Pulmonary Disease (COPD).

2005 Safety and Dosing Study for Sublingual-Oral Administration of Standardized Glycerinated Cat Hair Allergenic Extract

2004 A Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multi-Center, Multiple Dose (7 days) Dose-Ranging study, To Assess the Efficacy and Safety of 4 Doses of XXXXXX (50, 100, 200 & 400 μ g) Delivered via a Multiple Dose Inhaler and 1 Dose of XXXXXX (400 μ g) Delivered via a Single Dose Inhaler in Patients with Chronic Obstructive Pulmonary Disease (COPD)

2005 A multicenter, randomized, double-blind, placebo-controlled, parallel-group study to assess the efficacy of XXXXX metered-dose inhaler at a daily dose of 160 μ g administered for 12 weeks either in a once-daily regimen in the morning (160 μ g qd AM) or in a twice-daily regimen (80 μ g bid) in adults and adolescents with mild to moderate persistent asthma treated previously with inhaled corticosteroids

2005 A Randomized Double-Blind Placebo-Controlled, Parallel-Group, Multicenter, Study to Evaluate the Efficacy and Safety of XXXXXX Inhalation Powder 200mcg, 400mcg, 600mcg and 800mcg Administered Once Daily in the Morning and XXXXX 500mcg BID via DISKUS Inhalation Powder Compared with Placebo for 8 Weeks in Adolescent and Adult Subjects (≥ 12 years old) with Persistent Asthma Symptomatic on Moderate-Dose ICS Therapy

2005 A Randomized Double-Blind Placebo-Controlled, Parallel-Group, Multicenter, Study to Evaluate the Efficacy and Safety of XXXXX Inhalation Powder 25mcg, 50mcg, 100mcg, and 200mcg Administered Once Daily in the Morning and XXXXX 100mcg BID via DISKUS Inhalation Powder compared with Placebo for 8 Weeks in Adolescent and Adult Subjects (≥ 12 years old) with Persistent Asthma Symptomatic on Non-ICS Therapy

“ A Multi-Centre, Multinational, Double-Blind, Double-Dummy, Placebo-Controlled, Group Comparative Study to Investigate the Effects of XX-XXXXXXXXX via pMDI Compared with XXXXXXI in Adult Patients with Chronic Obstructive Pulmonary Disease (COPD)” 2001- 2003

“XXXXXXXXXXXX therapy of Perennial Nonallergic Rhinitis Double-Blind, Placebo Controlled Trial” 2001- 2002

“A STRATIFIED, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL-GROUP, 12-WEEK TRIAL EVALUATING THE SAFETY AND EFFICACY OF THE XXXXXX XXXXX DISKUS COMBINATION PRODUCT 100/50MCG ONCE DAILY VERSUS XXXXXX XXXXX PROPIONATE DISKUS 100MCG ONCE DAILY AND PLACEBO IN SYMPTOMATIC PEDIATRIC SUBJECTS (4-11 YEARS) WITH ASTHMA” 2001- 2002

“A Multicentre, Randomised, Double-Blind, Parallel Group, Placebo-Controlled Study to Investigate the Long-Term Effects of XXXXXX/XXXXXXXX (XXXXXX) 50/500µG BD, XXXXXXXX 50µG BD AND XXXXXX XXXXXXXX 500µG BD, ALL DELIVERED VIA THE DISKUS/TMACCUHALERTM INHALER, ON THE SURVIVAL OF SUBJECTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD) OVER 3 YEARS OF TREATMENT” 2001- 9/2005

“An Observational Study of the Epidemiology and Natural History of Asthma: Outcomes and Treatment Regimens “ 2001- 2003

“ A CLINICAL INVESTIGATION TO ASSESS THE SAFETY AND EFFICACY OF XXXXX XXXXXXXX INTRAVENOUS (HUMAN), 10% IN SUBJECTS WITH PRIMARY IMMUNODEFICIENCY DISORDERS”2001- 2004

“A Multicenter, Open- Label, Randomized, Parallel Groups Study to Assess the Long- Term Safety Performance of XXXXX Compared to XXXXX in Subjects with Asthma” 5/2002- 2004

“A Multicenter, Randomized, Double- Blind, Double- Dummy, Parallel-Group Comparison of XXXXX XXXXX Inhalation Aerosol versus XXXXX XXXXX and XXXXX Inhalation Aerosol in Subjects with Chronic Obstructive Pulmonary Disease” 1/2002- 3/2002

“A Phase III Double- Blind, Placebo- Controlled, Parallel- Group, Multicenter, Efficacy, Safety, and Dose Response Study of XXXXX Metered Dose Inhaler 50 MCG/Day, 100 MCG/Day, and 200 MCG/Day (Ex- Valve) Administered Once Daily For 12 Weeks In The Treatment of Children with Persistent Asthma” 5/2002- 10/2002

“A Multicenter, Randomized, Open- Label, One Year Long- Term Safety Study of XXXXX Metered Dose Inhaled 50 MCG/Day to 200 MCG/Day (Ex- Valve) Administered Once Daily or XXXXX Dry Powder Inhaler (XXXXXX XXXXX) 50 MCG or 100 MCG Administered Twice Daily for the Treatment of Children with Persistent Asthma” 5/2002- 10/2002

“A Multicenter, Double-Blind, Randomized, Parallel Study Comparing the Efficacy and Safety of XXXXX 120mg BID, XXXXX 240mg QD, and Placebo in Subjects with Perennial Allergic Rhinitis” 10/2002- 3/2003

“THE EFFICACY OF XXXXXXXXXXXXXXXXXXXXXXXXXXXX (XXXX) AND VACUUM CLEANING IN LOWERING HOUSE DUST MITE POPULATION AND HOUSE DUST MITE ALLERGEN LEVELS IN HOMES IN TAMPA, FL” 2002-2003

“A Double- Blind, Double- Dummy, Randomized, Placebo- and Active- Controlled, Multicenter, Parallel- Group Study of XXXXX in the Treatment of Subjects with Chronic Obstructive Pulmonary Disease” 5/2002- 2004

“INHALED CORTICOSTEROID REPLACEMENT STUDY - EFFICACY AND SAFETY OF XX XX-XXXX IN MODERATE PERSISTENT ASTHMA” 2002- 2003

“DOSE-RANGING STUDY OF XX XX-XXXX IN PATIENTS WITH PERSISTENT ASTHMA NOT TREATED WITH INHALED CORTICOSTEROIDS” 2002- 2003

“A Multicenter, Open-Label, Randomized, Active-Controlled, Parallel Group Chronic Safety Study of XXXXXXXX in the Treatment of Subjects with Chronic Obstructive Pulmonary Disease” 2002- 2004

“ EVALUATION OF XXXXXX’S EFFECTS IN MITIGATING ANGIOEDEMA. AN OPEN LABEL STUDY TO ASSESS THE EFFICACY AND TOLERABILITY OF REPEATED DOSES OF XXXXXX (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX) IN PATIENTS WITH HEREDITARY ANGIOEDEMA” 2002- 2005

“A PLACEBO-CONTROLLED COMPARISON OF THE EFFICACY, SAFETY, AND PHARMACOKINETICS OF THE CURRENT US VERSION OF XXXXXXXX (XXXXXXX) AND THE NEW VERSION OF XXXXXXXX IN ASTHMATIC CHILDREN AND ADOLESCENTS” 2002- 2004

“ COMPARISON OF CONTINUED LOW-DOSE INHALED CORTICOSTEROIDS VERSUS XXXXXXXXXXXXXXXX FOR ASTHMATIC PATIENTS WELL CONTROLLED WITH LOW DOSE INHALED CORTICOSTEROIDS” 2002- 2003

“A Multicenter, Randomized, Double-Blind, Double Dummy, Placebo Controlled, Parallel Group, Four-Week Study Assessing the Efficacy of XXXXXX Aqueous Nasal Spray 200mcg QD versus XXXXX 10mg QD in Adolescent and Adult Subjects with Asthma and Seasonal Allergic Rhinitis Who are Receiving Concurrent Open- Label XXXXX Diskus 100/50mcg BID 10/2002- 2003

“A Randomized, Controlled Study of XXXXXXXXXXXXXXXX (250 mcg and 500 mcg) Versus Placebo in Patients with Asthma” 2003- 2005

“EFFECT OF EDUCATION AND DRUG PRESENTATION ON EFFICACY OF XXXXXXXXXXXXXXXX AND PLACEBO IN ASTHMA” 2003-2004

“ A Twelve-Week, Randomized, Double-Blind, Double Dummy, Placebo- Controlled Trial of XXXXX (80/4.5mcg) versus its Mono Products (XXXXX and XXXXX) in Children (\geq 6 years of Age) and Adults with Asthma” 4/2003- 2004

“ A Twelve Week, Randomized, Double-Blind, Double-Dummy, Placebo Controlled Trial of XXXXX (160/4.5mcg) in Adolescents (\geq 12 Years of Age) and Adults with Asthma” 3/2003- 2004

“RANDOMIZED, MULTICENTER, PLACEBO-CONTROLLED PARALLEL GROUP STUDY OF FOUR MONTHS DURATION PER PATIENT TO EVALUATE THE SAFETY AND EFFICACY OF TREATMENT WITH 24 μ G B.I.D. AND 12 μ G B.I.D. XXXXXXX, DOUBLE-BLIND, AND 12 μ G B.I.D. XXXXXX WITH ADDITIONAL ON-DEMAND XXXXXX DOSES, OPEN-LABEL, IN ADOLESCENT AND ADULT PATIENTS WITH PERSISTENT STABLE ASTHMA” 2003- 2004

“A Phase III, 28-Week, Multicentre, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Assess the Efficacy, Safety and Tolerability of Subcutaneous XXXXXX Initiated Post Hospitalization or Emergency Room Admission in Adolescent and Adult Asthmatics with a History of Significant Asthma Exacerbations” 2003- 2005

“A PHASE II, RANDOMIZED, DOUBLE-BLIND, PARALLEL-GROUP, PLACEBO-CONTROLLED, ORAL FOOD CHALLENGE TRIAL OF XXXXXX (XXXXXXXX) IN PEANUT ALLERGY” 2004- 2005

“A LONG TERM SAFETY STUDY OF XXXXXXX AND XXXXXX XXXXXX IN SUBJECTS TWELVE YEARS OF AGE AND OLDER WITH ASTHMA” 2004- 2005

“TWELVE-WEEK, RANDOMIZED, DOUBLE-BLIND, DOUBLE-DUMMY, PLACEBO AND ACTIVE CONTROLLED STUDY OF XXXXXXXX pMDI ADMINISTERED ONCE DAILY IN ADULTS AND ADOLESCENTS WITH ASTHMA – XXXX” 2004-2005

“ A Randomized, Double-Blind, Active-Controlled, Parallel-Group, Single-Dummy, Multicenter, 12 Week Study to Assess the Efficacy and Safety of XXXXXXXX® pMDI 160/4.5 μ g x 2 Actuations Once-Daily (QD) Compared to XXXXXXXX pMDI 80/4.5 μ g x 2 Actuations QD, XXXXXXXX pMDI 80/4.5 μ g x 2 Actuations Twice-Daily (BID) and to XXXXXXXX pMDI 160 μ g x 2 Actuations QD in Asthmatic Subjects 12 years of Age and Older” 2004-2005

“ AN ASCENDING FOUR DOSE PLACEBO CONTROLLED STUDY TO ASSESS THE EFFICACY AND TOLERABILITY OF XX-XX (RECOMBINANT PLASMA KALLIKREIN INHIBITOR) ADMINISTERED FOLLOWING ONSET OF ACUTE ATTACKS OF HEREDITARY ANGIOEDEMA” 2004- PRESENT

“A STRATIFIED, MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PARALLEL GROUP, 4-WEEK COMPARISON OF XXXXXXX XXXXXX/XXXXXXXX DISKUS COMBINATION PRODUCT 100/50MCG BID VERSUS XXXXXXXX XXXXXXXX DISKUS 100MCG BID IN PEDIATRIC AND ADOLESCENT SUBJECTS WITH ACTIVITY INDUCED BRONCHOSPASM” 2004- 2006

“A Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multi-Center, Multiple Dose (7 days) Dose-Ranging study, To Assess the Efficacy and Safety of 4 Doses of XXXXXX (50, 100, 200 & 400 μ g) Delivered via a Multiple Dose Inhaler and 1 Dose of XXXXXX (400 μ g) Delivered via a Single Dose Inhaler in Patients with Chronic Obstructive Pulmonary Disease (COPD)” 2004- 2005

“A Randomized, Double-Blind, Parallel Group, 52-week Study to Compare the Effect of the Fluticasone Propionate/Salmeterol DISKUS Combination Product 250/50mcg BID with Salmeterol DISKUS 50mcg BID on the Annual Rate of Moderate/Severe Exacerbations in Subjects with Chronic Obstructive Pulmonary Disease (COPD)” 1/2005- 6/2006

“XXXXXXXXX in combination with nasal glucocorticosteroid for perennial allergic and non-allergic rhinitis in subjects with persistent nasal congestion” 2/2005- Present

“A Randomized, 24-week, Double-blind, Placebo-controlled, Parallel-group Study to Evaluate the Efficacy, Safety and Tolerability of XXXXX(15mg BID) in Patients with Chronic Obstructive Pulmonary Disease (COPD)” 2005- 2006

“A 12-Month Double-blind, Double-Dummy, Randomized, Parallel group, Multicenter Efficacy and Safety Study of XXXXXXXX pMDI 2 x160/4.5 µg bid and 2 x 80/4.5 µg bid Compared to XXXXXXXX 2 x 4.5µg bid and Placebo in Patients with COPD” 2005- Present

“ Study of Acid Reflux and Asthma” 6/2005- Present

“ A multicenter, randomized, double-blind, placebo-controlled, parallel-group study to assess the efficacy of XXXXXXXXX metered-dose inhaler at a daily dose of 160 µg administered for 12 weeks either in a once-daily regimen in the morning (160 µg qd AM) or in a twice-daily regimen (80 µg bid) in adults and adolescents with mild to moderate persistent asthma treated previously with inhaled corticosteroids” 2005- Present

“A Randomized Double-Blind Placebo-Controlled, Parallel-Group, Multicenter, Study to Evaluate the Efficacy and Safety of XXXXXXXX Inhalation Powder 200mcg, 400mcg, 600mcg and 800mcg Administered Once Daily in the Morning and XXXXXXXX XXXXXXXX 500mcg BID via DISKUS Inhalation Powder Compared with Placebo for 8 Weeks in Adolescent and Adult Subjects (≥12 years old) with Persistent Asthma Symptomatic on Moderate-Dose ICS Therapy” 2005- Present

“A Randomized Double-Blind Placebo-Controlled, Parallel-Group, Multicenter, Study to Evaluate the Efficacy and Safety of XXXXXXXX Inhalation Powder 25mcg, 50mcg, 100mcg, and 200mcg Administered Once Daily in the Morning and XXXXXXXX XXXXXXXX 100mcg BID via DISKUS Inhalation Powder compared with Placebo for 8 Weeks in Adolescent and Adult Subjects (≥12 years old) with Persistent Asthma Symptomatic on Non-ICS Therapy” 2005- Present

“ Safety and Dosing Study for Sublingual-Oral Administration of Standardized Glycerinated Cat Hair Allergenic Extract” 2005- 7/2006
“Impact of an Asthma Camp on Knowledge and Clinical Outcomes” 7/2005

“A Randomized, 24-week, Double-blind, Placebo-controlled, Parallel-group Study to Evaluate the Efficacy, Safety and Tolerability of XXXX (15mg BID) in Patients with Chronic Obstructive Pulmonary Disease (COPD)” 4/2005- Present

“Sinusitis and Rhinitis in Asthma” 12/2005- 2/2006

“Evaluation of XX-XX’S Effects in Mitigating Angioedema A double-blind, placebo-controlled study followed by a repeat dosing phase to assess the efficacy and safety of XX-XX (recombinant plasma kallikrein inhibitor) for the treatment of acute attacks of Hereditary Angioedema” 2005- Present

“A Randomized, Parallel Group, Double-Blind, Comparative Trial Assessing Lung Function and Other Measures of Asthma Control in Adults and Adolescents, at least 12 Years of Age, with Persistent Asthma, Who Have Either a B16-Arg/Arg, a B16-Gly/Gly or a B-16 Arg/Gly Genotype and are Treated With XXXXXX 100/50mcg or XXXXXX 50 mcg BID” 1/2005-7/2006

“A randomized, placebo-controlled, double-blind Phase II study of the efficacy and safety of XXXXXX for the treatment of acute attacks in patients with hereditary angioedema” 2/2006- Present

“A Multicenter, Randomized, Double-Blind, Triple-Dummy, Placebo-Controlled, Parallel Group, Four-Week Study Assessing the Efficacy of XXXXXX Nasal Spray 200mcg QD versus XXXXXX 10mg QD in Adolescent and Adult Subjects with Asthma and Seasonal Allergic Rhinitis Who are Receiving XXXXXX 100/50mcg BID or Placebo BID” 3/2006- Present

“A prospective observational study for the psychometric validation of a patient-reported questionnaire in acute exacerbations of chronic obstructive pulmonary disease (AECOPD)” 3/2006- Present

“A 26-week, randomized, double-blind, parallel-group, placebo-controlled, multi-center study to evaluate the effect of XXXXXX on improving the tolerability of specific immunotherapy in patients with at least moderate persistent allergic asthma inadequately controlled with inhaled corticosteroids” 4/2006-Present

“A Multicenter, Double-Blind, Double-Dummy, Randomized, Active-Controlled, Parallel Group Long-Term Safety Study of 15 µg and 25 µg XXXXXXXX Inhalation Solution BID in the Treatment of Subjects with Chronic Obstructive Pulmonary Disease” 5/2006- Present

“A Randomized, Double-blind, Placebo-controlled, Parallel Group, Stratified, Multi-center, 12-Week Study Comparing the Safety and Efficacy of XXXXX and XXXXXX Combination (XXXXX 100/10µg or 250/10µg twice daily) in a Single Inhaler (XXXX HFA pMDI) with the Administration of Placebo or XXXXX (250µg twice daily) and XXXXXI (10µg twice daily) Alone in Adolescent and Adult Patients with Moderate to Severe Asthma” 6/2006- Present

“Effect of XXXXX on exacerbation rate in patients with COPD. A 52-week, Double-blind Study with 500 mcg XXXXXX Once Daily versus Placebo” 7/2006- Present

“A Phase IIIb Multicenter, Randomized, Double- Blind, Placebo-Controlled Study of XXXXXX in Subjects with Moderate to Severe Persistent Asthma Who Are Inadequately Controlled with High- Dose Inhaled Corticosteroids and Long- Acting Beta- Agonists” 7/2006- Present

2005 A 12-Month Double-blind, Double-Dummy, Randomized, Parallel group, Multicenter Efficacy and Safety Study of XXXXXXXX pMDI 2 x160/4.5 µg bid and 2 x 80/4.5 µg bid Compared to XXXXXXXX 2 x 4.5µg bid and Placebo in Patients with COPD
Phase IV, Multicenter Observational Study of the Long-Term Safety of XXXX in Chronic Asthma (EXCELS), 2010-

Phase IV, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study
Evaluating the Persistency of Response with or without XXXX after Long-Term
Terhap (XPORT), 2010-

Phase III, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study
Evaluation the Efficacy & Safety of XXX in Chronic Idiopathic Urticaria, 2011