**CURRICULUM VITAE**

**STANLEY J. SZEFLER, M.D.**

1. **Biographical Sketch**

Current Position: Professor of Pediatrics

University of Colorado School of Medicine

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1. **Education**

1966-1968 Canisius College, Buffalo, New York

1968-1971 School of Pharmacy, SUNY at Buffalo, B.S, Pharmacy

1971-1975 School of Medicine, SUNY at Buffalo, Doctor of Medicine

1975-1977 Resident in Pediatrics, Children's Hospital, Buffalo, NY

1977-1979 Fellow in Clinical Pharmacology, State University of New York at Buffalo,

Departments of Pharmacology and Therapeutics and Pediatrics

(additional training in allergy/immunology under the direction of Elliot F. Ellis, M.D. and Elliott Middleton, Jr., M.D.)

1. **Academic Appointments**

1991-present Professor of Pediatrics (1990-present) (with Tenure 2016) and Pharmacology (1991-2013), University of Colorado Health Sciences Center.

1983-1991 Associate Professor of Pediatrics (l982-1990) and Pharmacology (l983-1991), University of Colorado Health Sciences Center.

1980-1982 Assistant Professor of Pediatrics and of Pharmacology and Therapeutics

School of Medicine, and of Pharmaceutics, School of Pharmacy, State University of New York at Buffalo.

1979-1980 Research Assistant Professor of Pediatrics and of Pharmacology and Therapeutics

School of Medicine, and of Pharmaceutics, School of Pharmacy, State University of New York at Buffalo.

1. **Hospital, Government or other Professional Positions**

2020-prsent Interim, Medical Director, Research Institute, Children’s Hospital Colorado

2018- present Pediatric Pulmonary Training Program – Research Drector, Secton of Pediatric Pulmonary and Sleep Medicine, Deparment of Pediatrics, University of Colorado School of medicine, Anschutz Medical Campus

2015- present Research Medical Director, The Breathing Institute, Sections of Pulmonary Medicine and of Allergy and Immunology, Department of Pediatrics, Children’s Hospital Colorado, University of Colorado Denver School of Medicine.

2013-present Director, Pediatric Asthma Research, The Breathing Institute, Sections of Pulmonary Medicine and of Allergy and Immunology, Department of Pediatrics, Children’s Hospital Colorado, University of Colorado Denver School of Medicine.

2011-2013 Director of Fellowship Training in Allergy and Immunology, Department of Pediatrics, National Jewish Health and University of Colorado School of Medicine.

1998-2013 Director, Weinberg Clinical Research Unit/Pediatrics Section, National Jewish Medical and Research Center.

1995-2013 Helen Wohlberg & Herman Lambert Chair in Pharmacokinetics, National Jewish Center for Immunology and Respiratory Medicine.

1995-2013 Director of Pediatric Clinical Trials Center, Department of Pediatrics, National Jewish Center for Immunology and Respiratory Medicine.

1989-1995 Director of Fellowship Training, Department of Pediatrics, Allergy and Immunology Program, National Jewish Center for Immunology and Respiratory Medicine.

1982-2013 Director of Clinical Pharmacology, Departments of Pediatrics (l982-2013 and Medicine - l986-1995) National Jewish Center for Immunology and Respiratory Medicine.

1980-1982 Chief, Division of Pediatric Clinical Pharmacology and Pharmacokinetics

Children's Hospital.

1979-1980 Acting Chief, Division of Pediatric Clinical Pharmacology and Pharmacokinetics

Children's Hospital.

1977-1988 Military -- Major, United States Army Medical Reserve

1. **Honors, Special Recognitions and Awards**

A. SCHOLARSHIPS AND FELLOWSHIPS

New York State Regents Scholarship - July l966

United Way Summer Research Fellowship, SUNY at Buffalo School of Medicine -- l973

Pharmaceutical Manufacturers Association Foundation Fellowship in Clinical Pharmacology -- July l977 to June l979

B. SPECIAL RECOGNITIONS

Pharmacy School:

Rho Chi Honor Society Award for High Scholastic Achievement for Academic years l967-68 and l968-69.

Dr. Roger Mantsavinos Award for Excellence in Biochemistry

Dr. Eino Nelson Award for Excellence in Biopharmaceutics

Dr. James A. Lemon Award for Excellence in Biochemical Pharmacology

Aesculapius Award from Kappa Psi Pharmaceutical Fraternity for Outstanding Academic Performance

Leadership Award from Kappa Psi for l969-l970

Scholarship Certificate from Kappa Psi for Academic Performance -- l969-l970

Grand Council Scholarship Key -- Kappa Psi for Highest Scholastic Average in Class of l97l School of Pharmacy, SUNY at Buffalo

Graduation -- Magna Cum Laude

Medical School:

Induction into James A. Gibson Anatomical Society for Performance in Anatomical Sciences -- April l973

Induction into Alpha Omega Alpha Honor Society -- l975

Pediatric Residency:

Children's Hospital Award for Outstanding Performance During Internship Year l975-l976

Children's Hospital Award for Outstanding Performance During Residency Year l976-l977

Faculty:

Faculty Development Award, Buswell Fellowship

State University of New York at Buffalo l979-l980

Helen Wohlberg & Herman Lambert Chair in Pharmacokinetics 1995

Presidential Award, National Jewish Faculty Award 2001

Outstanding Scientific Achievement in Clinical Research, National Jewish Faculty Award 2001

Special Recognition Award for Outstanding Dedication and Service to the Residency Recruitment and Retention Committee, Department of Pediatrics, University of Colorado School of Medicine 2017

Visiting Professor:

University of Oklahoma Children's Hospital (1986)

University of Wisconsin (1990)

Northwestern University/Children's Hospital, Chicago (1990)

Medical College of Philadelphia (1990)

University of Iowa College of Medicine (1992)

Baylor College of Medicine and University of Texas at Galveston (1993)

Rainbow Babies Hospital, Cleveland, Ohio (1994)

Walter Reed Army Medical Center, Bethesda, Maryland (1995)

Nassau County Medical Center (1996)

Bethesda Naval Hospital and Walter Reed Army Medical Center, Bethesda, Maryland (1997)

Children's Hospital, Omaha, Nebraska (1998)

Medical University of South Carolina (1999)

Medical College of Georgia (2000)

Rainbow Children’s Hospital, Cleveland, Ohio (2001)

University of Arkansas at Little Rock (2002)

University of Vermont (2002)

University of Cincinnati (2003)

Ohio State University (2005)

Washington University, St. Louis (2006)

Rush Medical Center University (2006)

Johns Hopkins University (2006)

Walter Reed Army Medical center (2006)

Indiana University (2007)

Children’s Hospital of Norfolk, Virginia (2007)

University of Virginia (2007)

Medical University of South Carolina (2007)

University of Kansas, Children’s Medical Center Hospital (2007)

Mayo Clinic, Rochester, Minnesota (2008)

Imperial College and Brompton Hospital, London, England (2008)

McGill University, Montreal Children’s Hospital, Allergy and Immunology Program (2008)

University of California at San Francisco (2008)

University of California at Davis (2008)

Johns Hopkins University, Department of Pediatrics (2009)

Children’s Medical Center, Northwestern University, Chicago (2010)

University of Florida at Gainesville, Department of Pediatrics and School of Pharmacy (2011)

University of Washington, Department of Pediatrics Allergy and Immunology Division (2011)

University of Miami, Department of Pediatrics Pulmonary Division (2012)

National Institutes of Allergy and Infectious Diseases Program (2013)

University of Indiana, Department of Pediatrics, Children’s Hospital Pulmonary Division (2013)

University of Connecticut, Children’s Medical Center, Hartford, CT (2014)

Emory University, Department of Pediatrics Pulmonary Section (2014)

Stanford University, Lucille Packard Children’s Hospital (2015)

University of Iowa (2015)

University of California, Irvine (2019)

Local:

Colorado School Nurse Association. School Nurse Advocate of the Year 2014

National Recognition:

Carl Arbesman Memorial Lecture - Buffalo Allergy Society May 1990

Director - American Board of Allergy and Immunology 1991-1996.

Best Doctors in America 1992 - present

Goodman Lecturer

American College of Allergy and Immunology Annual Meeting 1994

Jerome Glaser Memorial Lectureship

American Academy of Allergy, Asthma and Immunology Annual Meeting 1995

Who's Who in Medicine and Healthcare 1996

Best Doctors in America: Central Region 1996-present

American Health Magazine/Best Doctors in America 1996

Food and Drug Administration, Member of Pulmonary-Allergy Drugs

Advisory Committee 1996 – 2000

Pfizer Visiting Professor in Pediatrics Medical University of South Carolina 1999

Philip Fireman Lecture Children’s Hospital of Pittsburgh 1999

Elliott Middleton Memorial Lecture

Buffalo Allergy and Immunology Continuing Education Program 1999

Bernard Berman Lecture - American College of Asthma, Allergy, and Asthma 1999

NHLBI/Technical Advisory Group for Evidence-Based Review of Asthma Therapy 2000-2001

NHLBI/National Asthma Education and Prevention Program,

Science Base Committee 2001-2016

Bret Ratner Award, American Academy of Pediatrics, Section for Allergy and Immunology 2002

Elliott Middleton Memorial Lecture - Buffalo Allergy and Immunology Society Continuing Education Program 2002

NHLBI/National Asthma Education and Prevention Program, Expert Panel Advisory Board for update of asthma management in pregnancy guidelines 2003-2004

Los Angeles Children’s Hospital Warren Richards Lectureship 2003

Park-Nicollet Clinical, Minneapolis, Minnesota, Norman A. Sterrie Lectureship 2004

Arizona Respiratory Center Benjamin Burrows Lung Immunology Seminar Series 2004

Elliot F. Ellis Lectureship, American Academy of Allergy, Asthma and Immunology 2005

Philip Fireman Lectureship, Nemacolin Conference 2008

Alvin Wert Lecture, Doerbecher Children’s Hospital, Portland, Oregon 2008

Distinguished Clinician Award, American Academy of Allergy, Asthma and Immunology 2009

William Pearson Lectureship, Washington State Allergy, Asthma and Immunology Society and Seattle Children’s Hospital 2011

University of Miami Pulmonary Section 2012

National Institutes of Allergy and Infectious Diseases 2013

Colorado Association of School Nurses, Advocate of the Year Award 2014

Keynote Speaker, Nationawide Columbus Children’s Hospital, Asthma Program 2015

Pediatric Pharmacy Advocacy Group, Summer Yaffe Lifetime Achievement Award in Pediatric Clinical Pharmacology 2016

Presidential Symposium, John P. McGovern lectureship, American College of Allergy, Asthma and Immunology 2018 2018

International Recognition

World Allergy Organization, Outstanding Clinician Award 2009

Scientific Advisory Committee, Global Initiative for Asthma 2013-2017

Board of Directors, Global Initiative for Asthma 2015-2017

1. **Memberships in Professional Organizations**

Rho Chi Honor Society -- Pharmacy School Inducted May l970

James A. Gibson Anatomical Society Inducted April l973

Alpha Omega Alpha Honor Society Inducted l975

American Academy of Pediatrics l976-present

American Society for Clinical Pharmacology and Therapeutics Full member 1978-1995

American Academy of Allergy, Asthma and Immunology l980-present (fellow-1989)

American Academy of Pediatrics, Clinical Pharmacology and Therapeutics Section Member, 1980-present

Society of Pediatric Research l983-present

American Society of Pharmacology and Experimental Therapeutics l984-2008

Colorado Allergy and Asthma Society - (l983-present)

American College of Allergy, Asthma and Immunology 1986-2014 (fellow-1988)

Allergy and Immunology Section Member, American Academy of Pediatrics 1988-present

American Thoracic Society 1995-present

Colorado Trudeau Society/Medical Section of the American Lung

Association of Colorado 1995-2013

European Respiratory Society 1996-2002

Colorado Association of School-Based Health Care 2009-2013

1. **Major Committee and Service Responsibilities**

A. Hospital

1. Children's Hospital Buffalo, N.Y.

a. Pharmacy and Therapeutics Committee l976-1982

b. Drug Formulary Committee l978-1982

c. Investigational Drug Committee l979-1982

d. Antibiotic Surveillance Committee l979-1982

f. Core Curriculum Committee, Research Council l980-1982

g. Steering Committee, Research Council l980-1982

2. National Jewish Health

a. Pharmacy and Therapeutics Committee, Chairman l983-1999

b. By-Laws Committee, Chairman l983-1985

c. Clinical Investigation Committee, Member l985-1990

d. Patient Education Advisory Committee, Member 1987-1990

e. Medical Illustrations Advisory Committee, Member 1988-1991

f. Biostatics Advisory Committee, Member 1989-1992

g. Executive Committee, Department of Pediatrics, Member 1989-2013

h. Fellowship Program Training Committee,

Department of Pediatrics 1990-2013

i. Research Task Force, Institutional Committee 1990-1994

j. Patent Committee, member 1990-1994

k. Non-Clinical Funding Task Force 1994-1996

l. Disease Management Program, Department of Pediatrics 1995-1996

m. Clinical Research Task Force 1997-1998

n. Long Term Planning Committee 1998-1999

o. Ethics Committee 1999-2013

p. Search Committee, Head for Biostatistics Division 1999-2000

q. Awards Committee 2001-2005

r. Search Committee, Head for Allergy and   
Immunology Division, Department of Medicine 2001-2002

s. Data Safety and Monitoring Committee 2002-2007

t. Strategic Plan Implementation, Pediatric asthma   
representative, Department of Pediatrics, 2007-2008

u. Asthma Retreat, Co-Director 2006

v. National Jewish Kauvar Symposium on Asthma, Director 2007

w. Faculty Awards Committee, Chair 2008-2010

x. Pediatric Pulmonary Division Search Committee, Chair 2009-2013

y. Clinical Research Leadership Committee 2011-2013

B. University

1. State University of New York at Buffalo

a. Human Investigation Review Committee, l978-1982

School of Pharmacy

b. Geriatrics Committee, School of Medicine l980-198l

2. University of Colorado School of Medicine

a. House Staff Recruitment Evaluation 1985-1988

b. Research Committee, Department of Pediatrics l986-1988

c. Pediatric Residents Training Committee,   
Department of Pediatrics 1988-1991

d. Fellowship Review Committee 1992-1995

e. Promotions Committee, Department of Pediatrics 1993-1997

f. University Faculty Promotions Committee 1997-2000

Co-chair, Promotions Committee 1999-2000

1. General Clinical Research Center,   
   Scientific Advisory Committee (SAC) 2001-2008
2. General Clinical Research Center   
   General Advisory Committee (GAC); Chair (2006-2008) 2003-2008
3. Participant and Clinical Interactions Resources (PCIR)

Oversight Committee for the Clinical and Translational

Sciences Institute 2008-2013

1. Resident Applicants Interviews 2014-present
2. Promotion (and Tenure 2017) Committee,

Department of Pediatrics 2015-present

1. Leadership Committee, Breathing Institute 2015-present
2. Research Operations Committee 2016-2017
3. Research Review Committee, Chair, Breathing Institute 2016-present
4. Research Operations Committee, Chair, Breathing Institute 2017-present
5. Research Prioritiziation Committee 2017-present
6. Scientific Steering Committee 2017-present
7. Search Committee, Chair, Emergency Medicine Section 2017-present

C. National

1. American Academy of Allergy, Asthma and Immunology

a. Committee on Drugs/Pharmacotherapy l982-2007

b. Committee on Inhaled Steroids 1986-1990

c. Postgraduate Education Committee (representative of the

Asthma, Rhinitis and Respiratory Disease Section) 1989-1992

d. Course Director, Asthma Course for the Asthma, Rhinitis

and Respiratory Disease Section 1989-1993

e. Secretary, Asthma, Rhinitis, and Respiratory Disease Section 1992-1993

f. Chair-elect, Asthma, Rhinitis, and Respiratory Disease Section 1993-1995

g. Training Program Directors Committee, Chair of Research

Subcommittee 1993-1995

h. Program Committee, Abstract Selection 1993-1996

i. Chair, Asthma, Rhinitis, and Respiratory Disease Section 1995-1997

j. Member, NAEPP Guidelines Dissemination

Project Committee 1998-2000

1. Clinical Research Task Force, Joint Council of Allergy   
   and Immunology 2000-2007

l. Awards Committee 2002-2006

m. Office of School-Based Management, Director 2014-present

n. Grants Review Committee 2017-present

2. American Academy of Pediatrics

a. Section on Clinical Pharmacology, Committee member l984-1988

b. Allergy and Immunology Section, member 1988-present

c. Executive Committee, Allergy and Immunology Section 1992-1997

d. Editor, Synopsis of literature for allergy and immunology,

section publication 1993-1995

e. Liaison, Committee on Drugs 1994-2000

3. Task force for the development of guidelines for non-bronchodilator anti-asthma drugs - co-chairman, section on special pharmacologic considerations, sponsored by the American Academy of Allergy and Immunology and the National Institute of Allergy and Infectious Diseases l985-1986

4. Task Force on Asthma Mortality, member Pharmacology Workshop  
sponsored by the American Academy of Allergy and Immunology l986-1987

5. United States Pharmacopeia - Pulmonary Disease Advisory Panel 1990-2000

6. Childhood Asthma Management Program - National Heart,   
Lung and Blood Institute multicenter clinical trial.

a. Steering Committee 1991-2013

b. Director, Patient Education Center 1992-1999

c. Publications and Presentations Committee 1996-2013

Chair, Editorial Subcommittee

d. Executive Committee 1997-2013

e. Writing committee, main outcomes publication 1999-2000

7. American Board of Allergy and Immunology 1991-1997

a. Task Force on Honorarium/Insurance 1992

b. Examination Proctor 1993-1997

c. Recertification Examination Co-Chair 1994-1995

d. Ad Hoc Examination Guidelines Committee 1995

e. Ad Hoc Nominating Procedure Committee 1996

f. Nominating Committee 1996

g. Nominating Committee Chair 1997

h. Conjoint Credentials Committee Chair 1997

8. American College of Allergy and Immunology

a. Member, Training Program Directors Advisory Committee 1993-1996

9. NHLBI Workshop on Asthma Outcome Measures,   
Discussant on Treatment Measures 1992

10. NHLBI Workshop on Childhood and Adult Onset Asthma, Presenter on pharmacotherapy 1994

11. NHLBI Workshop on Early Intervention in Childhood Asthma, Presenter on pharmacologic intervention 1996

12. Food and Drug Administration,

a. Member of Pulmonary-Allergy Drugs

Advisory Committee 1996-2000

b. Member of Pediatrics Subcommittee,

Infectious Disease Committee 1999-2002

c. Member for the Oral and Nasally Inhaled Product   
Subcommittee for Pharmaceutical Sciences 2000-2002

d. Consultive and Ad hoc Advisor 2014-2018

13. American Thoracic Society

Ad-Hoc Committee on the Evaluation and Management of

Refractory Asthma 1996-2000

14. American College of Chest Physicians

Co-Chair, Clinical Practice Guidelines for the

“Use and Prevention of Complications from Inhaled

Glucocorticoids in the Treatment of Asthma.” 1997-2002

15. Pediatric Pharmacology Research Unit Network –   
National Institutes of Child Health and Human Development 1999-2004

a. Vice Chair, Protocol Review Subcommittee 1999-2001

b. Chair, Pulmonary, Asthma and Allergy Working Group 1999-2003

c. Member, task force on Special Populations 2000-2002

d. Chair, Research Committee 2000-2001

e. Member, Research Committee 2000-2003

f. Vice Chair, Research Committee 2003

16. Childhood Asthma and Education Research Network –   
National Heart, Lung and Blood Institute 1999-2013

a. Lead Investigator, Characterizing Response to Leukotriene   
Antagonist and Inhaled Corticosteroids in Childhood Asthma   
(CLIC) study 1999-2003

b. Member, Presentations and publication committee 1999-2011

c. Member, Genetics Committee 1999-2011

d. Member, Conflict of Interest Policy Committee 2000-2001

e. Member, Quality Control Committee 2001-2002

f. Member, Pharmaceutical Contracts Committee 2003-2011

17. Participant in Workshop for Relative Potency of Inhaled   
Corticosteroid Workshop, sponsored by Canada Health 2000

18. National Heart Lung and Blood Institute/National Asthma Education   
and Prevention Program

a. Consultant, Technical Advisory Group 2000-2001

b. Member, Science Base Committee 2001-2007

c. Member, Asthma and Pregnancy Guidelines Update 2003-2004

d. Expert Panel-3, Asthma Guidelines 2005-2013

e. Special Advisor, Update of NAEPP Asthma Guidelines 2014-2015

f. Technical Expert Panel, NAEPP Asthma Guidelines 2016-2017

19. Task force for Development of Guidelines for Medications studies   
in the Newborn – National Institutes of Child Health and Human Development/Food and Drug Administration 2003-2004

20. Inner City Asthma Consortium I and II - National Institutes of   
Allergy and Infectious Diseases 2000-2015

a. Chair, Protocol Development Committee 2002-2008

b. Lead Investigator, Asthma Control Evaluation (ACE) study 2001-2008

c. Lead Investigator, Preventive Omalizumab or Step-Up

Therapy for Severe Fall Exacerbations (PROSE) Study 2008-2015

21. Asthma Clinical Research Network – National Heart, Lung   
and Blood Institute 1993 - 2011

a. Lead Investigator, Measuring Response to Inhaled   
Corticosteroids in Asthma (MICE) study 1993-1998

b. Member, Genetics Committee 2001-2011

c. Member, Medications Committee 2003-2011

22. Denver Public School Asthma Program, Director

a. Executive Director, Colorado Cancer, Cardiovascular 2006-2008  
and Pulmonary Disease Program and 2009-present

22. NICHD Workshop, “Emergency Research in Children:   
Ethical, Regulatory and Clinical Challenges” 2006

23. NHLBI/NIAID Asthma Outcomes Task Force, Co-Chair,   
Biomarkers Committee 2009-2012

24. NHLBI AsthmaNet – asthma research network 2009 - present

a. Publications and Presentations Committee, Chair 2009-present

b. Long Range Planning Committee, Member 2010-2016

c. Lead-Investigator, Individualized Asthma Therapy for

Toddlers (INFANT) Study 2010-2016

d. Lead Investigator, Pediatrics Section, Best drug response

for African Americans with asthma (BARD) study 2012-present

e. Priority Planning Committee, member 2014-2016

25. NICHD Vision Strategy Task Force – Co-Chair Diagnosis and   
Therapeutics Committee 2010-2011

26. Global Initiative for Asthma, Scientific Advisory Committee 2013-2017

27. Global Initiative for Asthma, Board of Directors 2015-2017

28. NHLBI, PrecISE Network 2017-present

a. Asthma Definitions Committee 2017

b. MedicatiomSelection Committee non-T2 2017-present

c. Protocol Development Committee 2018-present

d. Publications and Presentations Committee, Chair 2018-present

D. Community activities

1. American Lung Association, Asthma Camp Steering Committee 1988-1996

Patient Education Director 1994-1996

2. Mothers of Asthmatics, Advisory Board 1988-2001

3. Colorado Clinical Guidelines Committee, Asthma 2005-2008

4. Denver Public School Health Research Advisory Committee 2008-2017

5. Asthma Nights for Denver Public Schools 2009-2015

6. Colorado Asthma Coalition, consultant 2009-2017

7. Denver Public School, Health Advisory Council 2011-2017

E. Pharmaceutical Industry Advisory Panel and Consultant

1. Advisory Board - Dura Pharmaceuticals 1993-1995

2. Ad hoc consultant 1995-2007- Glaxo/Allen & Hanburys,   
Inc., Schering Pharmaceuticals, Fisons Pharmaceuticals, 3M   
Pharmaceuticals, Marion Merrell Dow, Astra Inc., Forest   
Pharmaceuticals, Muro Pharmaceuticals, Ross Products Division,   
Abbott Laboratories, Amgen

3. Education coordinator

a. Key Pharmaceuticals - symposium on theophylline update -   
held in Denver, Colorado August 1994

b. Rhône-Poulenc Rorer - symposium on "theophylline in the   
management of asthma" held in Denver, Colorado February 1994

c. Glaxo/Allen & Hanburys - organizing committee for   
pharmaceutical representative preceptor program on asthma  
 National Jewish Center, Denver, Colorado 1995- 1997

d. Rhône-Poulenc Rorer – Co-Director for preceptorship   
program on teaching patient education for pharmaceutical  
representatives 1995-1996

e. Zeneca Pharmaceuticals - Moderator for preceptorship   
program for pharmaceutical representatives program on asthma 1996

4. Respiratory Drug Advisory Panel - Glaxo and Wellcome 1996-1999

5. Asthma Regional Advisory Board - Discovery International/Zeneca Pharmaceuticals 1996

6. Leaders in Choice Advisory Panel - Glaxo Wellcome 1996-1998

1. National Directives Respiratory Advisory Board – Merck 1997 – 1999
2. International Respiratory Advisory Board - 3M Pharmaceuticals 1998-1999
3. Pediatric Advisory Board, Chairman – Merck 1999- 2002
4. Ad hoc Consultant – Sepracor 1998-2002
5. Ad hoc Consultant – Schering, 2000-2001
6. Pediatric Asthma Advisory Board – Glaxo Smith Kline 2001-2004
7. Advisory Panel – Pulmicort Respules, Astra Zeneca 2000-2003
8. Respiratory Advisory Board – Aventis 2001-2007
9. Respiratory Advisory Board – Altana 2001 – 2007
10. Respiratory Advisory Board – Novartis/Genentech 2002 – 2008
11. Academic Allergy Specialist Advisory Board – Glaxo Smith Kline 2003-2004
12. Merck Scientific Advisory Board 2003 – 2010  
    Global Respiratory Advisory Board 2010 – 2015
13. Ad hoc consultant- Ross Laboratories 2003
14. Ad hoc consultant – Roche Pharmaceuticals, Session Chairman 2003
15. Advisory Panel – Symbicort Development– Astra Zeneca 2003 – 2007
16. Ad hoc consultant – Abbott Pharmaceuticals, Respiratory Division 2007 – 2009
17. Boehringer Ingelheim – consultant new drug development –   
    pediatric plan 2008-2009

Chair, pediatric tiotropium study 2010 – 2016

1. Schering – consultant new drug development 2009
2. Sepracor – consultant new drug development 2010
3. Glaxo Smith Kline, Chair Pediatric Steering Committee for the   
   FDA mandated Long Acting ß-agonist trial 2011 – 2016
4. Roche, Global Respiratory Advisory Board 2012-2017
5. Aerocrine/Circassia, Consultant Exhaled nitric oxide monitoring 2014-present
6. Glaxo Smith Kline, Food and Drug Administration Advisory Meeting Consultant 2015
7. Novartis, Chair, Advisory Committee meeting, new asthma medication and

TENOR II study 2015

1. Teva, Advisory Panel, new asthma medication 2016
2. Astra Zeneca, AIRS Forum Advisory Panel 2016-present
3. Aviragen, Advisory Panel, new antiviral medication 2017
4. GlaxoSmithKline, pediatric asthma panel 2017-present
5. GlaxoSmithKline, Global Advisory Panel, immunomodulatory 2017-present
6. Regeneron/Sanofi Advisory Committee, immunomodulatory 2017-present

F. International

1. International Advisory Board of Asthma UK Centre for Applied Asthma Research, London UK, Keynote lecture: Multicentre trials: the key to success in 2014; 2014-present

2. Global Initiative for Asthma 2013-2017

3. GlaxoSmnithKline, Global Pediatric Asthma Panel 2017-present

1. **Licensure and Board Certification**

New York State Pharmacy Board February l973

National Board of Medical Examiners July l976

American Board of Pediatrics September l979

Colorado State Board of Medical Examiners August l982

American Board of Allergy and Immunology October 1987

1. **Inventions, Intellectual Property and Patens Held or Pending**

PATENTS HELD OR PENDING: Interferon-gamma for the treatment of severe asthma;   
 use of peripheral blood mononuclear cell glucocorticoid receptors in assessing asthma   
 severity

1. **Review and Referee Work**

A. Deputy Editor - Journal of Allergy and Clinical Immunology 1997-2018

B. Editorial Board

Biology of the Neonate/Developmental Pharmacology 1987-1996

Journal of Asthma 1988-1998

Journal of Allergy and Clinical Immunology 1988-1993

Pediatric Pulmonology 1989-1998

Pediatric Asthma, Allergy and Immunology 1990-1996

Yearbook of Allergy, Asthma and Clinical Immunology 1992-1997

Pharmacotherapy 1993-2004

Scientific Editor 2001-2004

Annals of Allergy, Asthma and Immunology 1995-2000

Bronchial Asthma: Index & Reviews 1996-1998

Clinical Asthma Reviews 1996-1998

Current Opinion in Allergy and Immunology 2015-2018

C. Ad Hoc Reviewer - in addition to editorial board activities

American Journal of Respiratory and Critical Care Medicine; Chest; Clinical Drug Investigation; Current Therapeutic Research; Drug Safety; European Respiratory Journal; Journal of the American Academy of Pharmaceutical Sciences; Journal of the American Medical Association; Journal of Pediatric Gastroenterology and Nutrition; Journal of Pediatrics; Metabolism; Lancet; New England Journal of Medicine; Pediatric Allergy and Immunology; Pediatrics

D. National Institutes of Health Reviewer:

Pharmacology (1992); Heart, Lung and Blood Institutes (1993); Maternal and Child Health (1993); Pharmacology (1993); Asthma Management in Minority Children Practical Insights for Clinicians, Researchers, and Public Health Planners, NHLBI, NIH Publication No. 95-3675 (1995); Consultant reviewer, Expert Panel Report 2: Guidelines for the Diagnosis and Management of Asthma, NHLBI, NIH publication No. 97-4051 (1997); NIH/NHLBI ad hoc special reviewer (1999); NIH/NHLBI reviewer for Severe Asthma Research Group proposals (2001); NIH/NHLBI Program Project Grant Reviewer (2006, 2007, 2008); NIH/NHLBI Loan Repayment Program Grants (2008 - 2016); NIH/NHLBI Study Section Clinical Trials (2008 – 2013; Chair 2012-2013); NIH National Institute of Arthritis and Musculoskelatal Diseases, Pediatric Reported Outcomes study section (2015)

E. Section Author - UpToDate in Pulmonary Disease and Critical Care, sections on "Mechanisms of Steroid Action" and "Use of Glucocorticoids in Asthma Therapy" 1998-2002

F. Academic Advisory Board Pfizer Visiting Professorship Program in Allergic Diseases and Asthma, 2002 – 2005.

G. Asthma United Kingdom Center for Applied Research, Advisory Board (2014-present)

H. Food and Drug Administration - Food and Drug Administration Anaesthesia and Analgesia Panel (2015)

1. **Invited Extramural Lectures, Presentations and Visiting Professorships**

Local

1. Colorado Biosymposium on Respiratory Disease, 2009, University of Colorado Denver School of Medicine, lecture on “Asthma Progression: A new target for Therapeutic Intervention.”
2. Colorado School-Based Health Care Symposium, (1) 2010 Annual Meeting, workshop moderator and speaker, “The Denver Public School Asthma program: Collaborations to Enhance Communication” and (2) 2011 Annual Meeting, workshop on "New Directions in Asthma Management: What SBHCs Need to Know"? Denver, CO
3. Children’s Hospital of Denver, Pulmonary Conference,

2011, “Cotton Club”, Copper Mountain, lecture on “NIH Asthma Network Studies: An Update on Recent Studies”

2014 “Cotton Club”, Keystone, lecture on “New Therapies for Asthma”

2015 “Cotton Club”, Keystone, “Updating the NAEPP Asthma Guidelines: What and When?”

2016 – “Cotton Conference, Granby, CO, “Implications of reduced lung growth on long term asthma outcomes”

2018 – “Cotton Conference, “New Directions in Managing Childhood Asthma”; Lecture - Career Development “Fellow to Faculty Transition”

Regional

None

National

1. **American Society for Pharmacology and Experimental Therapeutics**

1978 - Isoproterenol excretion and metabolism in the isolated perfused rat kidney.

1979 - Prednisolone and prednisone metabolism and excretion in the isolated perfused rat kidney.

2. **American Academy of Allergy, Asthma and Immunology**

1979 - Effect of diphenhydramine on prednisolone elimination kinetics.

1980 - Intrasubject variation in sustained-release theophylline absorption.

1981 - Effect of erythromycin base on theophylline elimination.

1982 - Steroid-specific and anticonvulsant interaction aspects of troleandomycin-steroid therapy.

1983 - Effect of erythromycin base on methylprednisolone kinetics.

1984 - Intraindividual variation in absorption from a sustained release theophylline formulation during continuous therapy in asthmatic children.

1985 - Sustained release theophylline absorption in young children; Evaluation of whole blood theophylline test requiring no instrument.

1986 - Prednisolone and methylprednisolone elimination in children receiving carbamazepine and phenobarbital therapy.

1987 - Interferon- reverses corticosteroid inhibition of oxygen radical release from human monocytes; 24-hour theophylline concentration profiles during therapy with a slow-release theophylline: Experience with 122 asthmatic children.

1988 - Penetration of systemic corticosteroids into the lung: A difference between prednisolone and methylprednisolone; Application of corticosteroid pharmacokinetics to severe steroid-requiring asthmatics; Overestimation of endogenous cortisol in asthmatics receiving steroids using a commercial immunoassay; Are theophylline "levels" a reliable indicator of compliance?

1989 - Patterns of theophylline absorption in adolescents: Comparison of two slow-release formulations; Effect of low-dose troleandomycin on methylprednisolone elimination; Methylprednisolone persists in the lung longer than prednisolone following single-dose administration.

1990 - Plenary Session "Corticosteroid Therapy in Asthma - How to and What to Expect."

1991 - Asthma Course Director - Speaker "New approaches to the treatment of asthma."

1992 - Asthma Course Director and speaker at two workshops.

1993 - Asthma Course Director and speaker at two workshops and one symposium session.

1994 - Speaker at grand seminar on aerosol delivery systems; Minisymposium on glucocorticoids - "Effect of glucocorticoids on growth in children with asthma."; Asthma Consultant's course on difficult to control asthma - "Management of the difficult to control asthmatic."

1995 - Plenary Session - "The future of anti-inflammatory therapy for asthma"; Workshop moderator and speaker - Childhood asthma"

1996 - Symposium speaker - "Managing Inflammation in Asthma"

1997 - Symposium speaker - "Short & long term safety of inhaled corticosteroid therapy"

ARRD Symposium - "Therapeutic modulation of childhood asthma"

Asthma Consultants Course - "Theophylline: Is there still a role?" (Pediatric viewpoint)

1998 - Astra symposium, moderator and speaker, "Clinical significance of nebulized preparation" and "Budesonide pharmacokinetics"

Regional, State and Local Allergy Societies, "Are all inhaled steroids the same?"

Workshop speaker - "Mechanisms of steroid resistant asthma and implications for medical management"

1999 – Pharmaceutical Symposia: “When is it appropriate to use inhaled steroids in the management of asthma in infants and children?

Grand Seminar: “Identifying the “preferred” inhaled steroid for children”

Minisymposium, “Challenges in designing individualized treatment programs for asthma management.” Asthma Consultants Course, Pro position - “Package inserts for inhaled corticosteroids should contain warning labels”

2000 - Grand Seminar, Risks of Poorly Controlled Asthma and Optimal use of Inhaled Corticosteroids. Moderator and lecture entitled “Poorly controlled asthma and permanent lung damage: Are your patients at risk?”

2001- Breakfast seminar – Lessons from the Childhood Asthma Management Program (CAMP); Workshop speaker “When should controller therapy be initiated for infants with recurrent wheezing/asthma?’; NHLBI Symposium “Measuring inhaled corticosteroid efficacy”

2002- Didactic Workshop “Adverse Impacts of Asthma Therapies” lecture on “Adverse impacts of inhaled corticosteroids: Children”

Dinner symposium “Epidemiology of Pediatric Asthma” lecture entitled “How do you identify the child who needs to start on controller therapy?

2003- Postgraduate Symposium on “Therapeutic Advances for Allergies and Asthma”, lecture entitled “Asthma therapy: How to measure a clinical response”.

Seminar, “Treating Severe Asthma in Children”

Symposium “Asthma Control and Disease Progression: Rationale for Targeted Asthma Therapy”; lecture entitled “The natural history of asthma: Modifying the disease”

Seminar, “Methodological Considerations in the Design and Implementation of Randomized Controlled Clinical Trials”

2004 – Course on Immunomodulation: From Bench to Marketplace; lecture entitled “Appropriate Endpoints for Asthma Trials”; Workshop Moderator “Designing Clinical Trials in Childhood Asthma,”; Seminar Discussion Leader “Treating Severe Asthma in Children”; NAEPP Expert Panel Report: Managing Asthma During Pregnancy: Recommendations for Pharmacologic Treatment- Update 2004, lecture entitled “Evidence-based review of asthma medicines during pregnancy”; Symposium, “How variable is asthma?” moderator and speaker, lecture entitled “The Variable Nature of Asthma: What Are the Dynamics Within a Patient?” NHLBI Clinical Research Programs Symposium, CARE Network presentation, “Characterizing response to leukotriene receptor antagonist and inhaled corticosteroid”

2005 – NHLBI Clinical Research Program, lecture entitled “Monitoring Asthma: Insights from trial in children asthma ages 6-17 years on monitoring measures: Asthma outcomes, pulmonary function and biomarkers”; Clinical Research Workshop 1204: NIH Trials; Optimizing Response symposium, Elliot F. Ellis Lectureship, "Variability in response to asthma medications: Selecting the best medication for the patient."

2006 – Miami, FL,Course Difficult cases, discussion of asthma; Symposium on Advances in Non-Invasive Monitoring of Asthma in Children and adults, lecture entitled “Advantages and Limitations of eNO for Evaluation of Asthma Severity Progression and Treatment”: moderator for Pro/Con debate “Introduction: Mild persistent asthma requires maintenance therapy”; Oral abstract Session Presentation on Inflammation, “Biomarkers as Guides for the Management of Childhood Asthma” American Academy of Pediatrics Section on Allergy-Immunology, lecture entitled “Future trends in the management of childhood asthma: Are you ready?”; NHLBI Asthma clinical research networks, session moderator: “NHLBI research Networks Findings on predictors of response to therapy: genotype and phenotype in children and adults.”

2007 - San Diego, CA;Workshop – Journal of Allergy and Clinical Immunology Year in Review lecture on “Update on Asthma”; Symposium Medical Crossfire “Issues in the Management of Persistent Asthma: Looking Forward at Inhaled Corticosteroid Therapy”; Symposium “New NAEPP Guidelines for the Management of Asthma: Expert Panel Report 3”; Lecture on – “Management in Children”; NHLBI Symposium NHLBI Clinical Research Programs: Measuring Asthma Impairment and Risk to Determine Response to Therapy: What Are the Best Measures? lecture entitled “Are Biomarkers Effective in Assessing Impairment and Risk? Evidence From ACRN, CARE and CAMP”; Pro-Con debate, moderator, “LABA are the First Choice Add-on Agent”

2008 – Philadelphia, PA; Workshop lecture New Asthma Guidelines, discuss “Pediatric Implications”; Allied Health Seminar, lecture on “Impairment and Risk: How Do We Evaluate?” Symposium NHLBI Clinical Research Programs in Asthma: New Findings from Childhood Asthma Management Program (CAMP), Childhood Asthma Research and Education Network (CARE), and Asthma Clinical Research Network (ACRN), lecture on “CAMP Continuation Study Outcomes: Maximal Lung Growth and Early Lung Function Decline in Children with Asthma”

2009 - Washington, DC;Workshop lecture “JACI Year in Review-Asthma”; ADT Interest Section Forum, Pro/Con "All Conflicts of Interest in the Relationship of Industry and Academia Should be Avoided" – Con position; media session – “Breaking down barriers to improve asthma control”, Workshop lecture on “What Makes a Good Journal – Views from the Editorial Office Journal of Allergy and Immunology (JACI) Speaker”

2010 – New Orleans, LA, NHLBI Asthma Networks' Impact on Clinical Practice and Research: A Reflection on the Contributions of the Asthma Clinical Research Network and Childhood Asthma Research and Education Network lecture on “Advances in Understanding and Predicting Variable Responses to Asthma Treatment in Children “; EORD Forum, lecture on, “The Impact of Air Pollution on the Emergence of Allergic and Non-Allergic Diseases”

2011 – San Francisco, CA; Symposium – NIH Outcomes Task Force Report, Seminar- Biomarkers for Diagnosing and Managing Asthma

2012 - Orlando, FL Course, Biomarkers in Airway Diseases, Exhaled NO: Easy, but how useful? Poster session, Reducing Health Disparities For Asthma With a School Based Asthma Education Program, Symposium NHLBI CARE network findings – “Measuring outcomes in CARE Network Trials: Lessons Learned” [presented in my absence – due to family illness]

2013 – San Antonio, TX; Primary Discussion Leader: Exhaled NO: Time to Clear the Air!; Workshop – Panel Discussion: Reviewing and Publishing Workshop: Getting Involved in the JACI and JACI: In Practice; Workshop – Panel Discussion: How to Get Your Manuscript Published (Clayton, Leung, Schatz, Hans-Uwe Simon); Session, Exhaled NO: Time to Clear the Air!

2014 – San Diego, CA; Course lecture “Using biomarkers and genetics to personalize therapeutics for allergies and asthma”; Workshop lecture “The use of exhaled nitric oxide in pediatric asthma.”

2015 - Houston, Texas, Plenary session speaker: Utilization of Present Therapies Based Upon Biomarkers, Phenotypes and Endotypes; Symposium speaker: “Advances in Pediatric Basic Science, Clinical and Translational Asthma Research in the Past Seven Years” and “School-Centered Asthma Programs: The Building Bridges Program”; Workshop speaker: Journal of Allergy and Clinical Immunology “Year In Review – Asthma”

2016 – Los Angeles, CA, NHLBI Course: Incorporating New Methodology in Asthma Clinical Trials, lecture on, “Cross-age studies: Important decisions”; Seminar, Barriers to Asthma Management in Schools, Discussion Leader; Symposium moderator and lecture, “Overview of LABA Safety and Efficacy”; Panel Discussion, Update on Asthma Treatment: Evidence-Based Recommendations for 2016.

2017 – Atlanta, GA Symposium: NHLBI’s Clinical Asthma Research Network (AsthmaNet)’s Approach to Key Asthma Questions in Children and Adults lecture on “Metabolomics Analysis to Predict Treatment Response in Early Asthma”; Seminar: “What’s on the Horizon: Upcoming Strategies for Managing Childhood Asthma”; Abstract Presentation: Baseline Blood Eosinophils and Reduction of Asthma Exacerbations By Omalizumab in Children with Moderate-to Severe Allergic Asthma; Workshop: Allied Health: How to Make a School-Based Partnership Work in Your Community; lecture on “The School-Based Asthma Program: Your Role in Making it Work”

2018 – Orlando, FL March 2-5, Poster,Greater Treatment Benefit with Omalizumab in Children with Increased Asthma Severity: Exploratory Analyses from the Inner-City Anti-IgE Therapy for Asthma (ICATA) Study’; Poster, Real-Life Patterns of Asthma Controller Use Vary by Age, Time of Day and Season; Poster, Real-Life Patterns of Short-Acting Beta-Agonist Use in Persistent Asthmatics Vary by Age, Time of Day, and Season; Poster, An Analysis of Type 2 Biomarkers in TENOR II, Poster, The Composite Asthma Severity Index: A Tool for Assessing Impact of Omalizumab Trateament in Children with Moderate-to-Severe Persistent Allergic Asthma; Breakfast session “Not just for research anymore: Utilizing biomarkers to implement personalized medicine in the clinic”

2019 – San Francisco, CA, February 22-25, Symposium on Asthma Care in the Era of Precision Medicine, lecture on “Personalized Medicine at the Patient and Population Levels” [20 minutes; **Poster** Digital assessment of asthma controller and rescue medication use as children transition into adulthood; Poster: Assessing the sensitivity and specificity of self-reported short-acting beta agonist (SABA) inhaler use with electronic medication monitors (EMMs); Symposium moderator, Schools and Tools: How We Can Advance the Management of Asthma, Food Allergies and Anaphylaxis.

3. **American Society for Clinical Pharmacology and Therapeutics**

1980 - Gentamicin serum concentration in premature neonates.

1981 - Troleandomycin inhibition of methylprednisolone elimination in pediatric and adult patients.

1982 - Pharmacokinetics of prednisolone in pediatric patients with inflammatory bowel disease.

1985 - Theophylline bioavailability from sustained release delivery systems: Is one dose enough?

4. **Society for Pediatric Research/Pediatric Academic Societies**

1980 - A reevaluation of gentamicin dosage regimen in small prematures; Quinidine elimination in pediatric patients.

1985 - Sustained release theophylline: absorption in young children.

1991 - Developmental pharmacology symposium: Drug mechanisms and applications in the treatment of airway disease.

1998 - Plenary session speaker: New concepts in the pharmacologic management of childhood asthma

2006 - Pediatric Academic Societies’ 2006 Annual meeting, San Francisco, CA, symposium entitled “New insights into the pathogenesis and treatment of asthma”, lecture entitled “Advances in drug treatment of asthma,” moderate abstract poster symposium “Asthma: Improving Care and Outcomes”

2014 – “Personalized medicine for childhood asthma,” Vancouver, BC, Canada.

2016 - Symposium “Improving quality of care in children with allergic diseases in schools”, speaker on “Enhancing asthma care through school-centered programs”, Baltimore, MD.

5. **American College of Allergy, Asthma and Immunology**

1987 - Critical assessment of troleandomycin in severe steroid-requiring asthmatic children.

1988 - Comparison of bronchodilator properties of albuterol, atropine methylnitrate and the combination in severe asthmatic children.

1990 - Workshop on the clinical pharmacology of medications used in the treatment of asthma.

1991 - Plenary session symposium "Issues in immunomodulator therapy

Point/counterpoint "Does methotrexate have a role in the treatment of asthma?"

Workshop on the management of severe asthma

1992 - Plenary session speaker “Adverse effects of topical glucocorticoids” and workshop on management of severe asthma.

1993 - Workshop presentations on management of severe asthma and dosing strategies in childhood asthma.

1994 - Workshop presentation on management of severe asthma; Plenary session - point/counterpoint discussion on first-line therapy in asthma; Goodman lecture/Plenary session: Steroids and viral infections in asthma

1995 - Symposium of the Role of the Allergist in Controlling Inflammation in Asthma, lecture on "Monitoring inflammation and controlling asthma exacerbations"

1996 - Plenary symposium, lecture entitled "Implications of polypharmacy in asthmatic patients," workshop on "Management of chronic asthma," Plenary Symposium lecture entitled "Optimizing Inhaled Glucocorticoid Therapy: Product Selection and Dosing Strategy"

1997 - Pharmaceutical Symposium: Inhaled Drug Delivery and Compliance: A Closer Look, lecture entitled "Overcoming obstacles to compliance: The impact of steroid phobia and how safety concerns affect compliance"; Pharmaceutical Symposium on Critical Concepts in Respiratory Disease Management, lecture entitled "When apparent asthma is non-reversible"; Meet the Professor - "Inhaled corticosteroids"; Plenary Session on Asthma: New Approaches and Novel Therapies In Asthma, lecture entitled "Early Pharmacotherapy: Can it Cure Asthma?"; Workshop on Severe Asthma.

1998 – Pharmaceutical symposium: “Development of a nebulized glucocorticoid for young kids: Clinical needs and challenges;” Pharmaceutical Dinner Symposium, "Old challenges and new opportunities for pharmacotherapy of the pediatric patient"; Meet the Professor breakfast, discussion on “Inhaled corticosteroids for asthma”; Pharmaceutical Dinner Symposium, "Consequences of untreated asthma: An Evidence-Based Approach," sponsor - Glaxo Wellcome "Inhaled corticosteroid therapy - Aren't they all alike?"; Pharmaceutical Symposium, "Asthma Therapy: What's different? What's New? and the Importance of Getting It to Where You Want" Moderator

1999 - Plenary session "Identifying the risk for persistent asthma in infants and young children."

2001 - Meet the Professor breakfast seminar, “New pharmacologic asthma therapies”;

moderator, symposium, New Destinations for Asthma Therapy, lecture on “Growth in understanding pediatric asthma” symposium, lecture on “Advances in Combination Therapy: Application to Pediatric Asthma.”

2002 - Symposium “Managing Asthma as a Variable Disease” lecture entitled “Optimizing asthma therapy to manage a variable disease.”; Symposium entitled “New Insights into Inhaled Corticosteroids” lecture on “ICS: Pharmacokinetics/Mechanisms of Action,”; World Allergy Organization Symposium entitled “Vancouver 2003 @ ACAAI: The Molecular basis of Allergic Inflammation”, lecture entitled “Inflammation, bronchial hyperreactivity and remodeling”.

2003 - Symposium on “Confident Selection of Controller Therapy for Asthma and Allergic Rhinitis”, lecture entitled“Use of Combination Therapy in Asthma”; Symposium on “Happy Sneezers to Chronic Wheezers: A Closer Look at Pediatric Asthma and Atopy”, lecture entitled “Implications for Therapeutic Selections”

2007 - Symposium, “Is ‘One Size Fits All’ The Ideal for Asthma therapy?”, lecture on “Are Inhaled Steroids the Best Drug for All Mild Persistent asthmatics?”; Meet the Professors Breakfast, A Review of the New Asthma Guidelines; Plenary session – What determines response to therapy in moderate to severe asthma? lecture on “What determines response to asthma therapy?”

2013 - Symposium entitled “COPD and Asthma: Exploring Immunopathophysiological Mechanisms”, lecture on “Severe asthma: Identifying mechanisms to inform therapy”; Meet the Professor session “Severe Asthma”

2014 – Atlanta, GA, Symposium: Root Cause of Allergy and Asthma, “acetaminophen”; Meet the Professor, “Tailoring Asthma Management – Step 2 to Step 4”

2017 – Boston, MA, Symposium Lecture, “Controller therapy: How to Choose the Correct Medication”; Meet the Professor session “Phenotype-based Approach for the Management of Preschool Episodic Wheezing and Asthma”

2018 – Seattle, WA, Presidential symposium, oral presentation, “Lessons learned from the pediatric studies in the NIH Asthma Networks”

6. **American College of Chest Physicians**

1991 - Asthma Update Symposium "Treatment of acute asthma in children"

Reactive Airway Diseases: 1991 Update "High dose inhaled steroids: Is it really a strong and safe therapeutic modality?"

1992 - Postgraduate course: Asthma as an inflammatory disease, "Is there evidence for an anti-inflammatory effect with theophylline or beta-agonists?"

1994 - Postgraduate course on childhood and adult asthma health care policies, lecture on "Pharmacology of asthma therapy."

1997 - Panel discussion on New Choices in Pharmacologic Management of Asthma, lecture entitled "Difficult to control asthma: Rationale for new therapies,"

7. **American Academy of Pediatrics**

1992 - Asthma Dialogue Session and Symposium on the Treatment of Asthma.

1993 - Symposium for practitioners, Current Status of Asthma Therapy in Pediatrics, lecture on "Inhaled steroid controversies".

1994 - Plenary session - "Management of the difficult to control asthmatic" (Spring meeting)

Dialogue session - "Office management of asthma" (Fall meeting)

1997 - Plenary Session - “Leukotriene antagonists in childhood asthma”

1999 - Section of Allergy and Immunology symposium, "New and old available choices for inhaled steroids."

2002 – Section on Allergy and Immunology Symposium, “Cutting edge treatment for allergic disorders” and Symposium lecture on “Identifying the patient in need of intervention”

2003 – Symposium – “Pediatric Asthma: Impacting Health Care Delivery and Outcomes”, lecture entitled “Managing the Young Chronic Asthmatic and the Importance of Device, Delivery, and Drug Safety”

2004 – Dinner symposium program “Challenges of Wheezing and Asthma in children”, moderator and speaker – lecture on “Managing a Child asthmatic Like a Specialist”; Seminar, “Asthma therapy: New and Coming”; Plenary Session, “Asthma 2004: What Do the Studies Show Us?

2005 –

Symposium entitled: “Deciphering the Clues: Detailing the Environmental. Comorbid, and Lifestyle Factors that Influence the Course of Pediatric Asthma”. Lecture entitled “Breathing easier: New information on airway remodeling and the natural history of asthma”; Seminar, “Safe and Effective use of Inhaled Corticosteroids”

2010 - Selected Short Subjects “Asthma Disease Progression in Children: Can it be prevented?” and “Use of long acting bronchodilators in children: Safe or unsafe”

2017 - Pediatric Pulmonary Conference, Orlando, FL, Lectures on **“**Appropriate Use of Biologic Response Modifiers for Childhood Asthma; “Things to Consider in Selecting an Inhaled Corticosteroid; “Macrolide Antibiotics for Pediatric Respiratory Disease”

2017 - Section/Council Program, Section on Allergy and Immunology, “The safety of long-acting beta-agonists in Pediatrics: An Update”, Chicago, IL

2018 - Nov 6, Focused Topic, “New therapies in asthma treatment: What are biologics? Orlando, FL

8. **American Thoracic Society**

1996 - Abstract session/Featured lecture - "Emerging issues in the management of childhood asthma" Evening symposia - "Comparative analysis of available inhaled glucocorticoids" Childhood Asthma Management Program NHLBI Symposia, "Baseline characteristics of the study population"

1997 - Post-Graduate Course, "Managing difficult to control and steroid resistant asthma in children"; Annual Allergy Fellows Symposium, "Inhaled Corticosteroid Therapy"; Post-Graduate Course, Moscone Center, "Inhaled cortico-steroids: How to Tell When Enough is Enough"; Childhood Asthma Management Program NHLBI Symposia, "Environmental exposure and pulmonary function"; Postgraduate Seminar - "Improved targeting of inhaled steroids to the airways - Clinical implications in the treatment of asthma" - lecture entitled "The importance of the inhaled dose"

1998- Allergy Fellows Symposium, Sutton Place Hotel, lecture entitled "Use of corticosteroids in early intervention"; Postgraduate Seminar entitled: Therapeutic Horizons in Asthma Management, lecture entitled "Therapeutic Targets in the Inflammatory Process"

1999 - postgraduate course - Asthma Update: Airway inflammation and therapy issues, lecture entitled “Pros and cons of fixed combinations” in a section entitled Combination Therapy for Asthma, Panel discussion San Diego Convention Center

2000 – Pharmaceutical Symposium - The Role of Additive Therapy in Adult and Pediatric Asthma – lecture entitled “Inhaled steroids: What is the optimal dose?”; Poster Discussion Co-Moderator, “Systemic Effects of Corticosteroids.”

2001 -NHLBI Childhood Asthma Management Program symposium, presentation on “Impact of Asthma Therapy on Lung Growth and Development”; Symposium, “Rationale for early intervention in childhood asthma”; NHLBI Asthma Clinical Research Network Symposium, “Measuring Inhaled Corticosteroid Efficacy”

2002 - Meet the Professor Seminar**,** “Inhaled steroids and Growth”,American Thoracic Society /European Respiratory Society Symposium on “Approach to Tackling Severe Refractory Asthma,” lecture entitled “Severe Refractory Asthma in Children: Comparison to Adults”

2003 - Symposium “Asthma Clinical Trials versus Real World Effectiveness: Comparing Apples to Oranges”, lecture entitled “Considering Therapeutic Choices in the Real World”; Symposium, “Mild Asthma: Should there be a concern? Lecture entitled “Mild asthma and the updated guidelines: The specialist’s role in educating the health care community”

2004 - Division of Lung Diseases, NHLBI Symposium CARE Network– lecture entitled “Factors determining response to ICS and LTRA in children with mild to moderate asthma: CLIC results”; Symposium entitled “Once-daily inhaled corticosteroids in the treatment of asthma: Weighing the risk-benefit relationship” lecture on “ The evidence for once-daily dosing of inhaled corticosteroids: A critical review of the literature”; Symposium on Bronchiolitis in Children: New Solutions, lecture entitled, "Impact of RSV disease on children"

2005 - symposium entitled “Moving Towards a New Age in Asthma Management”, lecture on "Enhancing ICS Therapy for Improved Patient Outcomes in Asthma."

2006 - NHLBI Symposium – Genotype and Phenotypic Predictors of Response to Asthma therapy: What do NIH Clinical Research Studies tell Us? Lecture on “Response in adults vs. children in ACRN and CARE studies”

2007 - Pulmonary and Allergy Fellows Program, lecture on “Asthma management and the New Guidelines”; Advances in Pharmacogenetics Postgraduate course, lecture on “Novel phenotypes for pharmacogenetics: Novel ways of detecting responders and non-responders”; Symposium, Pediatric Year in Review, lecture on –“Advances in Pediatric Asthma”; Pediatric Asthma Symposium, lecture on “Should we treat infantile asthma?”; National Institutes of Allergy and Infectious Diseases Symposium, Inner City Asthma Consortium, lecture entitled “Results of a randomized, double-blind, controlled trial of a biomarker (eNO) for guiding the treatment of childhood asthma.”

2008 - NHLBI Symposium"Childhood Asthma Management Program (CAMP) Continuation Study Outcomes:  Maximal Lung Growth and Early Lung Function Decline in Children with Asthma." Symposium lecture on “ Heterogeneity of asthma in children”; Symposium on Personalized Medicine: The Future of Asthma Care”, lecture on “Incorporating FeNo and other biomarkers into asthma management.”

2010 - New Orleans, Postgraduate Course,Bench to Bedside: The Art and Science of Translational Research, co-moderator and lecture on “Introductions, Educational Objectives, and Worldwide Environmental Factors Affecting Discovery and Development”**;** Thematic Poster session facilitator, Airway Function & Aerosols in Children, Adults and Mice.

2011 – Denver, CO; Postgraduate Course, Asthma and Allergic Diseases: State of the Art in Biology and Therapeutic Targets Course,lecture on“Defining Therapeutic Targets for Asthma”; NHLBI Symposium, lecture on “Lung development patterns in the NHLBI Childhood Asthma Management Program.”

2012 – San Francisco, CA Co-Moderator and speaker, Symposium “Variability of treatment response”, lecture “Differential response to asthma therapy in children”

2013 - Philadelphia, PA Symposium entitled “Beyond the EPR3/GINA guidelines: Incorporating the results of recent asthma trials into clinical care”; “Pediatric Asthma: What areas could be updated in the guidelines?” and “Anti-IgE: Where can it be useful in pediatric asthma?” Thematic Poster Session, " Asthma Mediators and Biomarkers", Lead Facilitator; Co-Chair mini-symposium *“ Early Life Risk Factors for Development of Asthma  ” moderator*; Poster Presentation Incidence Of Malignancy In Omalizumab And Non-Omalizumab Treated Patients With Moderate-To-Severe Asthma: The EXCELS Study”; NIAID ICAC Symposium “Inner City and Asthma: An Insight to the Disease”, lecture on “Does asthma treatment in the inner city need to be different?”

2015 – Denver, Colorado,Validation of Predictors for Fall Asthma Exacerbations in Inner City Children B27-VIRAL INFECTION AND PEDIATRIC ASTHMA  Poster Discussion Session; Reducing School Absenteeism Among Inner-City Children: Preliminary Results from the 2013-14 Building Bridges: Advancing Education by Improving Asthma Management in Inner-City Children Program B107-ASTHMA MANAGEMENT AND HEALTH EDUCATION Poster Discussion Session; Symposium entitled “ IMPLEMENTING COLLABORATIVE PROGRAMS TO SUPPORT STUDENTS WITH ASTHMA IN THE SCHOOL SETTING“, lecture entitled “ Lessons learned from a school-centered asthma program: Opportunities for dissemination and sustainability“

2016 - Joint ATS/ERS/JRS Symposium On Severe Asthma: A Global Perspective Session Type: lecture entitled  “9:22-Severe Asthma In The Pediatric Population

2017 – Washington, DC; Abstracts: A Feasibility Study of Daily Monitoring of Controller and Rescue Medication Use in a Pediatric Patient Population at High Risk of an Asthma Exacerbation; Reduction of Exacerbations by Baseline Indicators of Asthma Severity in Children Receiving Omalizumab;The Clinical Characteristics of Recent Asthma Exacerbators in the TENOR II Cohort; Lung Function Decline in the TENOR II Cohort; Racial Disparities in Asthma-Related Health Outcomes in Children with Severe or Difficult-to-Treat Asthma; Asthma Exacerbations and Lung Function Decline in a Pooled Analysis of Adolescents and Adults From Randomized Controlled Trials of Omalizumab; Building Bridges for Asthma Care: Reducing School Absence for Children with Health Disparities; Viva/PensieTinA-asthma® pooled lung function by allergic modelling; Safety of tiotropium in African American patients with asthma

2018 – San Diego, CA; Poster Greater Treatment Benefit with Omalizumab in Children with Increased Asthma Severity: Exploratory Analyses from the Preventative Omalizumab or Step-up Therapy for Fall Exacerbations (PROSE) Study RAPiD: Rapid Abstract Poster Discussion Session; Forced Expiratory Flow (FEF25-75%) as an Alternative Lung Function; Poster Measurement in Pediatric Patients; Thematic Poster Session; Natural History of TENOR I Patients More Than a Decade Later in TENOR II Based on GOLD Classification of Severity of Airflow Obstruction” thematic poster session; Assessment of Airway Inflammation Using Exhaled Nitric Oxide in Pediatric Asthma and Its Impact on Treatment Decisions Thematic Poster Session; Personal Exposure to Multiple Air Pollutants and Asthma Severity in an Urban Pediatric Asthma Panel RAPiD: Rapid Abstract Poster Discussion Session; Using Digital Technology to Identify Adherence Phenotypes May Identify Appropriate Time for Intervention, Poster discussion; Association between Objective Short-Acting Beta-Ag;onist Use and Self-Reported Asthma Control Test Scores among Adults with Asthma, Poster discussion

2019 – Dallas, TX – Moderator: Symposium Difficult to Treat Asthma, Posters presentations: Digitally Recorded Controller And Rescue Medication Use Vary By Age In Patients With Asthma**;** Real-life Patterns of Short-acting Beta-agonist Use In Patients With COPD Vary By Time Of Day And Season**;** Evaluating Adherence Data In The Clinical Setting: What Tools Should We Use To Describe Behavior?Breathing Counts: Addressing Barriers To Medication Use In High Risk Children With Asthma

1. National Academy of Sciences, 1999, Workshop on Rational Therapeutics for Infants and Children, presentation on “New directions in childhood asthma”.
2. Asthma ‘99: Theory to treatment” Conference, Honolulu, Hawaii, lecture on “Airway remodeling in the pediatric patient” and “Pharmacokinetic variables influencing clinical response to corticosteroids”.
3. NIAID/NIEHS Conference, June 17-19, 2001, Washington, DC, State of the Art Asthma Conference, *Current Strategies in Asthma Management from the Infant to Elderly*, sponsored by National Institute of Allergy and Infectious diseases (NIAID) and the National Institute of Environmental Health Sciences (NIEHS), lecture entitled “An Assessment of Efficacy of Current Treatment Modalities.”
4. World Asthma Meeting, Chicago, Ill – July 13-15, 2001 - Corticosteroids Breakout Session, “Long term inhaled corticosteroid therapy: Observations from the NHLBI Childhood Asthma Management Program (CAMP)”; NHLBI/NIAID Pediatric Asthma Program, summary of NHLBI CAMP study; Dinner Symposium, moderator; Emerging trends affecting the treatment of asthma.
5. Masters in Pediatric Pulmonology conference, University of Miami, Jan 20-21, 2002 – workshop “Childhood Asthma: Opportunities to make a difference” lecture on “Optimizing the use of inhaled corticosteroids for childhood asthma”.
6. NHLBI National Asthma Education and Prevention Program 2003 National Asthma Conference, Washington**,** D.C.,Jun 19, 2003 Symposium on "Therapeutic Issues: Assessing Risk and Avoiding Side Effects", lecture entitled “Potential side effects for children”; Working session: Therapeutic Issues: Making Difficult Decisions, moderated session and lecture entitled “Stepping treatment up and down”.
7. Lovelace Respiratory Research Institute (LRRI) Symposium, Santa Fe, NM, 2003, lecture entitled "Impact of early intervention on the natural history of asthma".
8. AAAAI Distinguished Lecture Series, November 2003, Pri-Med East Symposia, Boston, MA, lecture entitled “Revised asthma treatment guidelines: An update from the National Asthma Education and Prevention Program.”
9. Food and Drug Administration, Rockville, MD, Office of Generic Drugs, “Use of Exhaled Nitric Oxide for Measurements of Bioquivalence and Dose Response Relationship of Inhaled Corticosteroids, April 20, 2006.
10. Children’s Hospital of San Diego CME conference on Current Concepts in Pediatric Allergy and Otolaryngology: San Diego 2006, lecture entitled, “Individualization of asthma therapy: Who needs what and why?”; Case Presentations, Drug Controversies “Ask the Expert Faculty Panel”; Workshops, “The best objective measures in asthma: PFTs or do we NO?”; lecture on “Asthma Guidelines: Who is a mild asthmatic and how should they be managed?” “Case presentations: Controversies in the Guidelines “Ask the Expert Panel”.
11. NIH, NICHD Best Pharmaceuticals for Children Act Symposium,2006,Washington, DC lecture entitled “Information gaps in the treatment of asthma in pediatric outpatients”.
12. Rush Medical Center University, 2006, Chicago, lectures entitled " Current treatment options and future directions for the management of  pediatric asthma," "Early intervention in childhood asthma," and, "The use of long acting bronchodilators in the treatment of asthma."
13. Western Society of Asthma, Allergy and Immunology 2007 Maui, Hawaii, lecture on, “Early interventions in asthma: at what age and / or what level of intensity should ICS be started?” and “Monitoring the natural history of pediatric asthma.”
14. Los Angeles Asthma and Allergy Foundation Annual Meeting, Los Angeles, CA,CME conference, Keynote speaker, lecture on “Update on the New Asthma Guidelines.”
15. Oregon Allergy Society Meeting 2007, Portland, OR, lecture on “ The New NAEPP Guidelines” and “Refractory Asthma: Treatment Options”.
16. American College of Clinical Pharmacy 2007 Annual Meeting, Denver, CO, Symposium: Incorporating Surrogate Markers into Research Investigations, lectureentitled, "Surrogate Markers and Surrogate Endpoints in Clinical Research."
17. California Society for Allergy, Asthma and Immunology, 2008, Huntington Beach, CA, lectures on “Severe asthma in children” and “Application of biomarkers in the management of asthma” .
18. Colorado Asian Health Education and Promotion Multicultural Symposium on “Healthy Living for Our Families”, presentation entitled “The Denver Public School Asthma Program: Accomplishments and Future Plans”.
19. Nemacolin Conference on Childhood Asthma, 2008, Pittsburgh, PA, lecture on “Individualizing asthma therapy: Application of biomarkers”.
20. Los Angeles Society for Pediatrics Conference, 2008, Anaheim, CA, lecture on “Advances in childhood asthma” Use of inhaled corticosteroids for managing childhood asthma” and “Management of severe childhood asthma”.
21. Johns Hopkins Department of Pediatrics Grand Rounds, 2009, Baltimore, MD;lecture entitled ”Individualizing asthma therapy: Directing new insights to improve asthma control”.
22. Western Society for Allergy, Asthma and Immunology 2010, Lanai, Hawaii,lectures on“Early intervention and its effect on the course of allergic disease”and“Evaluation and treatment of the wheezing infant”.
23. National Institutes of Health, NHLBI/NIAID Asthma Outcomes Task Force Workshop 2010 – presentation on Biomarkers Committee Report.
24. Colorado Section of the American Academy of Pediatrics Chapter, “Pediatric Asthma 2011: Recent Advances”.
25. Allergy, Asthma and Immunology Foundation of Northern California, invited by Dr. Michael Martin, lecture on “Controversial issues in the management of childhood asthma: Working toward resolution”, San Francisco, CA.
26. William Pearson Lectureship, Seattle, 2011, Washington State Allergy, Asthma and Immunology Society: Personalizing asthma therapy to achieve asthma control; Grand Rounds, Seattle Children’s Hospital, Grand Rounds: "Managing Asthma with Onset in Young Children".
27. Florida Allergy Asthma Annual Meeting, Amelia Island, FL2011 **-** lecture on “Systemic effects of inhaled corticosteroids”.
28. NICHD Workshop on Diagnostics and Therapeutics, 2011, Washington, DC, plenary presentation on “Improving methods to diagnose and manage childhood disease” and breakout session co-moderator, Break-out session summary
29. National Asthma Education and Prevention Program meeting, 2011, Updating the asthma guidelines”.
30. NIEHS/EPA Sponsored Children’s Environmental Health Centers Meeting, Bethesda MDlecture on “Personalizing asthma therapy: Assessing the environment”.
31. Allergy, Asthma, Immunology Society of Georgia, Lake Lanier, GA, 2012 lecture entitled "NHLBI CAMP study: The natural history of childhood asthma".
32. Webinar Patient Centered Outcomes Research Institute meeting and Webinar, 2013, Advisory Panel on “Severe Asthma in African American and Hispanic/Latinos”, presentation on “Asthma Research: Treatment of Children,” Washington, DC.
33. Nationwide Children’s Hospital, 2015, lecture, "Personalized medicine for asthma: The train has left the station!", Columbus, Ohio
34. Asthma Research Summit California Department of Public Health, Los Angeles, CA 2015 lecture on “Heterogeneity of asthma phenotypes and endotypes” and “Developing a ‘Circle of Support’ in the Community for Children with Severe Asthma”
35. American Academy of Allergy, Asthma and Immunology, School Centered Asthma Summit meeting 2015, “Building Bridges: A Model school-centered asthma program”, Washington, DC
36. Pharmacotherapy of asthma, NICHD 2016 Webinar
37. Patient Centered Outcomes Research meeting 2016, Houston, TX, panel discussion for Journal Editors.
38. Pediatric Pharmacy Advocacy Group, Atlanta, GA, 2016, speaker, “Steroid Pharmacology – Following the Yellow Brick Road”, Atlanta
39. California Allergy, speaker, Asthma and Immunology Society mtg,2016, San Francisco, CA, lectures on **“**Community engagement: lessons from a school-centered asthma program”andPersonalized Medicine for Asthma Management
40. American Academy of Allergy, Asthma and Immunology Asthma Course: The Life Spectrum of Asthma, Chicago; moderator for Case Discussion Workshop
41. American Academy of Pediatrics, Pediatric Pulmonary Conference, Orlando, FL, Lectures on “Appropriate Use of Biologic Response Modifiers for Childhood Asthma; “Things to Consider in Selecting an Inhaled Corticosteroid; “Macrolide Antibiotics for Pediatric Respiratory Disease”
42. NICHD Webinar, 2017, “Study Design, Biomarkers and Endpoints in Asthma Medication Evaluation”
43. Los Angeles Society of Allergy, 2017, Asthma and Clinical Immunology Meeting, lecture on “Updates in childhood asthma management”
44. Nemacolin Annual International Asthma Conference, 2017, Pittsburgh, PA. Personalized Medicine for Asthma Mini-Symposium, lecture on “Will personalized medicine approaches be useful in mild/moderate asthma?”
45. NICHD lecture series 2018, lecture on “Pharmacotherapy of Asthma”
46. Global MindED conference, Denver, CO, 2018, panel discussion on “Chronic disease management: From sick care to health care”
47. Eastern Allergy Conference, Palm Beach, FL, 2019 “Biomarkers in Severe Asthma”; June 2 “Controversies in asthma management: ICS dose escalation to prevent exacerbations and oral corticosteroids for wheezing infants”
48. University of California Irvice, Orange County, CA, 2019, Grand Rounds entitled “Improving Asthma Management by Focusing on the Risk Domain”

**International**

1. **World Conference on Clinical Pharmacology and Therapeutics** 1980 - Quinidine elimination in pediatric patients.

2. **European Respiratory Society**

1. Fisons symposium on Nedocromil in Childhood Asthma, lecture on "Safety and   
    efficacy of long term therapy in childhood asthma"
2. Allergy and Immunology Section Symposium on "New Actions of   
    Glucocorticoids", lecture on "Steroid resistant asthma"

3.  **Allergy and Immunology Society of Mexico Annual Meeting**

1994 - Inhaled steroids: Helpful of Harmful?

Management of the difficult to control asthmatic

Roundtable on controversies in immunotherapy

2003 - National Congress of Pediatric Allergy and Clinical Immunology, lectures on “Pharmacogenetics: Applications for childhood asthma” and “Early intervention in childhood asthma”

4. **European Respiratory Society**

1994 - Fisons symposium on Nedocromil in Childhood Asthma, lecture on "Safety and efficacy of long term therapy in childhood asthma"

1. - Allergy and Immunology Section Symposium on "New Actions of Glucocorticoids", lecture on "Steroid resistant asthma"

2014 - Symposium: Delivering care in Chronic Airway Diseases for Every Patient: Opportunities, Obstacles and Challenges - “If you had to choose only one controller medicine for your asthma patient, what would it be?”

2016 - Symposium Deep phenotyping to improve treatment outcomes in pediatric asthma, speaker,lecture on“Application of biomarkers and patient characteristics to personalize asthma treatment for children

2018 - Paris, France, Presentations: Pediatric Year in Review, lecture, “Year in Review, What’s New in Pediatric Asthma?” Evening Symposium Early management of asthma to prevent adverse outcomes – different management strategies depending on age group

5. **Allergy and Immunology Society of Mexico Annual Meeting**

1994 - Inhaled steroids: Helpful of Harmful?

Management of the difficult to control asthmatic

Roundtable on controversies in immunotherapy

2003 - National Congress of Pediatric Allergy and Clinical Immunology, lectures on “Pharmacogenetics: Applications for childhood asthma” and “Early intervention in childhood asthma”

6. **World Asthma Conference,** Barcelona, Spain, 1998 Interactive session: Controversies: Inhaled steroids: How much, how soon, how long? presentation entitled: “long-term high-dose is dangerous-Con position**”**

Major Symposia on Lifetime Therapy, "Difficult to treat asthma”

1. XVI World Congress on Asthma Buenos Aires, Argentina, 1999 -lectures entitled: 1.) "Safety and efficacy of new HFA-BDP delivery system." 2.) "Leukotriene assessment and modifier therapy in childhood asthma" 3.) "Severe persistent and steroid resistant asthma" and 4.) "Management of severe asthma in children"
2. Japanese Respiratory Society, Hiroshima, Japan,2001symposium on “Safety of inhaled corticosteroids” lecture title “Optimizing the benefits of inhaled steroids for the treatment of childhood asthma.”
3. British Society for Allergy and Clinical Immunology, Harrogate, North Yorkshire, Dec 3, 2002, Symposium on "Mechanisms of glucocorticoid action and resistance", lecture entitled "Strategies for management of glucocorticoid resistance in asthma".
4. World Allergy Organization Congress,

Vancouver, BC, Canada, Sep 8-9, 2003, Seminar, “Inhaled Corticosteroids” Symposium entitled “Pediatric Asthma – Issues and Answers” (sponsored by ACAAI), lecture entitled “Airway remodeling – Does it Occur in Children?”

Bangkok, Thailand, Dec 2007, Symposium – Pediatric Asthma – lecture entitled “What do PEAK, PACT, CAMP, etc tell us?”; Symposium – Asthma treatment – lecture entitled “Comparison of inhaled Corticosteroids – Is there a “best” steroid?”

Buenos Aires, Argentina, Dec 6-11, 2009, Co-Moderator and Speaker for Pediatric Asthma Symposium, lectures on “Inhaled corticosteroids in children: benefits and limitations” and “use of biomarkers to personalize asthma therapy”.

Cancun, Mexico, 2011, Seminar, Treatment of the Asthmatic Patient Under 5: NIH asthma network studies; NIAID and NHLBI: Standardizing Outcomes in Asthma Clinical Research, lecture on “Biomarkers as Outcome Measures in Asthma Clinical Research”; moderator, abstract presentations – “Inhaled corticosteroids for asthma”; Symposium on Asthma in Children: Treatment, lecture on “Step Care”

Rio de Janiero, Brazil 2014Chair session on Pediatric Allergy: Upper and Lower Airway;Update in Pediatric Asthma, lecture on “Are intermittent inhaled steroids an effective option to treat asthma in children?”**;** Chair Poster session on Asthma Diagnosis and Treatment

1. World Asthma Meeting, Bangkok, Thailand,February 2004, Plenary session on “Different Asthma Phenotypes”– speaker lecture on “Childhood Asthma, “ moderator, Concurrent Session on “Childhood Asthma,”
2. Asthma Begins in Children Meeting, Vienna, Austria, April 2005, lecture entitled “Mild Asthma – The Next Frontier”
3. Firestone Respiratory Institute Meeting, Hamilton, Ontario,October 2005, Deciding Therapy Session, lecture entitled “Individualizing Asthma Therapy”
4. Japanese Society of Pediatric Allergology and Clinical Immunology Annual Meeting Fukui, Japan, November 2005, lecture entitled, Frontier of the treatment for infant asthma in the U.S.
5. Hong Kong Pediatric Respirology Society, Hong Kong, China, October 2006, lecture on "Application of Biomarkers for the Management of Pediatric Asthma" and lecture on "Current and Future Management of Pediatric Asthma"
6. Prince of Wales Hospital, Hong Kong, China, October 2006, Chinese University of Hong Kong, lecture on “Early intervention in childhood asthma”
7. Japanese Society of Allergy, 2006, Tokyo, Japan, lecture entitled, “Early intervention in childhood asthma”
8. Exacerbations in Asthma and COPD Conference 2007,San Juan, Puerto Rico,lecture on “Issues in clinical trial strategies in asthma exacerbations”
9. World Allergy Congress, Co-moderator and speaker at Pediatric Asthma Symposium, lectures on “Inhaled corticosteroids in children: benefits and limitations” and “use of biomarkers to personalize asthma therapy”, Buenos Aires, Argentina
10. World Congress of Asthma mtg, Quebec. Break-Out Session, Pediatric Asthma, lecture on “Current and future management of asthma in children”; Break-Out session – Pharmacologic treatment of Asthma, lecture on, “Monoclonal Antibodies”; Break-out Session, Severe Asthma in Children, lecture on “Asthma exacerbations in children”; AAAAI Spectrum of Asthma Symposium, lecture on, “Treatment: What Have We Learned from the Networks?
11. World Allergy International Scientific Conference 2014, Rio de Janiero, BrazilChair session on Pediatric Allergy: Upper and Lower Airway;Update in Pediatric Asthma, lecture on “Are intermittent inhaled steroids an effective option to treat asthma in children?”**;** Chair Poster session on Asthma Diagnosis and Treatment.
12. King’s College John Price Pediatric Respiratory Conference, 2017, London, UKlectures; Key note lecture “A Step-Care Approach to Personalized Medicine for Asthma: Lifespan considerations”, “Closing the Gaps of Communication in Asthma Care for Children”, “Antibiotics for early infant wheezing disorders Pro-Con debate”
13. Chilean Respiratory Society meeting, 2017 **Puerto Varas, Chile** "Managing emerging asthma in young children” “A Step-Care Approach to Personalized Medicine for Asthma: Lifespan Considerations” “Facilitating communication among health care providers to manage severe asthma” “Asthma Care in the Next 10 years: Where Do We Go From Here?
14. International Congress on Pediatric Pulmonology, **Toledo, Spain,** symposium “Choosing the right controller therapy in paediatric patients with asthma”, moderator and speaker, Important steps in choosing a controller medication; poster presentations: Efficacy of tiotropium add-on therapy in children and adolescents who experienced episodes of asthma worsening during four Phase III studies; FEV1 improvements with tiotropium & long-acting beta2-agonists added to inhaled corticosteroid therapy are similar in paediatric patients with asthma; Effect of tiotropium Respimat® on seasonal asthma worsening in paediatric patient; Plenary session, lecture entitled “Steroid refractory inflammatory phenotypes in wheeze and asthma”**;** Workshop on global aspects of pediatric asthma, moderator and **l**ecture entitled “Asthma training and education in the USA”
15. Sophia Children’s Hospital, **Rotterdam, Netherlands** – visiting professor: lectures entitled - “Enhancing community engagement through a school-centered asthma program”; Pediatric Grand Rounds, “Improving Asthma Management by Reducing Risk”
16. Pulmonary Conference 2018, **Taormino, Italy**, session on New Challenges in Pediatric Pulmonology, lecture entitled “Therapeutic challenges in pediatric asthma”.
17. Asthma UK meeting 2019, **London,** Plenary session lecture on “Technology, asthma and the future”
18. King’s College John Price Pediatric Respiratory Conference 2019, **London, UK,**  lectures on **“**Personalized Medicine**”; “**Asthma Across the Lifespan: Focusing on the Risk Domain**”; “**Applying Technology to Asthma Care.”
19. **Teaching Record**

Medical Students

Annual lectures (two to three per year) since 1982 in the Treatment of Asthma for the Department of Pharmacology University of Colorado Health Sciences Center School of Medicine Course Number 6000

Graduate Students

Lectures in the graduate medical School Department of Pharmacology Course Number 7620 from 1992 – 2002 (two to three lectures per year) on immunology, immunomodulators and biologic response modifiers.

House Officers

None

Key Administrative Position

Course Director: Director of Fellowship Training, Department of Pediatrics, Allergy and Immunology Program, University of Colorado Health Sciences Center and National Jewish Center for Immunology and Respiratory Medicine, Denver, Colorado (1989-1995); 2003 - initiated lecture series in the principles of clinical research for Department of Pediatrics Allergy and immunology fellows.

Training Program Director, University of Colorado Allergy and Immunology Program – Pediatrics (2011-2013); also Chair of Training Program Education Committee (2011-2013) and member of the Clinical Competency Committee (2013)

Postdoctoral Fellows

Primarily clinical research training for fellows in our Department of Pediatrics Allergy and Immunology Training Program: Robert Rogers, M.D. (1983), James Haltom, M.D. (1984), Maryanne Bartoszek (Scott), M.D. (1986), Bruce D. Ball, M.D. (1988-89), Pakit Vichyanond, M.D. (1989), Richard Ando, M.D. (1990), Leon Greos, M.D. (1991), Amanda Dove, M.D. (1992), Jaime Alvarez, M.D. (1992), Jeffrey Kam, M.D. (1994), Jeffrey Leflein, M.D. (1995), Sai Nimmigadda, M.D. (1995-6), Michael Clayton, M.D. (1995), Beth Macomber (2004), Christopher Mjaanes (2004), Richard Henderson (2006), Grace Tamesis (2008), Tracy Kruzick (2008), Jonathan Malka (2010), Summer Monforte (2012), Chris Cleveland (2013).

Pediatric Pulmonary section: Heather [Hoch] De Keyser (2014), Deborah Liptzin (2014), Mfonobong Udoko (2020)

Emeregency Medicine Section: Nidhya Navanandan (2019)

1. **Grant Support**

A. Current funding:

1. National Heart, Lung and Blood Institute, 1UG1HL139123, Precision Interventions for Severe and/or exacerbation Prone Asthma (PrecISE), Co-Principal Investigators: Michael Wechsler, MD [Medicine] and Stanley J. Szefler, MD [Pediatrics], 9/30/17 - 9/29/23; $350,000 per year plus patient care costs.

2. Colorado Cancer, Cardiovascular and Pulmonary Disease Grant, 19 FHLA 108325, Colorado Comprehensive School-Centered Asthma Program (AsthmaCOMP), Principal Investigator: Stanley J. Szefler, MD, 7/1/18-6/30/21. Total grant: $2,600,398; Year 3 $869,137.

3. Propeller Health, Data Integration and Community Enhancement Center: Electronic Medication Monitoring, 7-1-19 t0 6-30-19, total gfrant $150,000.

4. National Heart, Lung and Blood Institute, 1UG3HL151297-01A1, Disparities Elimination through Coordinated Interventions to Prevent and Control Heart and Lung Disease Risk (DECIPHeR), “Reducing Asthma Attacks in Disadvantaged School Children with Asthma, 9-10-2020 through 8-31-2023 $2.7 million, Year 1: $610,000 direct costs.

B. Past funding:

1. National Institutes of Allergy and Infectious Diseases. Allergy Center Grant (AI-14198) "Multidisciplinary study of asthma." Principal investigator: Elliott Middleton, M.D. and Stanley J. Szefler, M.D., 9/17/79-8/31/82. Total direct costs $59,089.
2. Muro Pharmaceuticals, Inc., "Bioavailability assessment of a liquid prednisone preparation," Principal investigator: Stanley J. Szefler, M.D., 9/1/80-6/30/81. Total direct costs $11,551.
3. Fisons Corporation, "Evaluation of theophylline absorption from two controlled-release formulations," Principal investigator: Stanley J. Szefler, M.D., 4/1/81-3/31/82. Total direct costs $21,431.
4. Western New York Chapter of the American Heart Association, "Quinidine elimination in pediatric patients," Principal investigator: Danny D. Shen, Ph.D. and co-investigator Stanley J. Szefler, M.D., 9/1/80-8/31/82. Total direct costs $19,500.
5. National Institutes of Health, Heart, Lung and Blood Institute (RO1-HL-30513), "Corticosteroid pharmacologic action and disposition," Principal investigator: Stanley J. Szefler, M.D., 9/1/81-11/30/85. Total direct costs $302,000.
6. Searle Pharmaceutical Inc., "Investigation of intrasubject variability in theophylline absorption from sustained-release preparations," Principal investigator: Stanley J. Szefler, M.D., 11/1/83-10/31/84. Total direct costs $53,106.
7. Muro Pharmaceutical Inc., "Bioavailability assessment of an oral liquid prednisolone preparation," Principal investigator: Stanley J. Szefler, M.D., 6/1/84-8/31/84. Total direct costs $9,983.
8. Syntex Medical Diagnostics, "Theophylline levels determined by the Quant-Stick method," Principal investigator: Stanley J. Szefler, M.D., 7/1/84-8/31/84. Total direct costs $8,000.
9. William H. Rorer, Inc., "Investigation of theophylline absorption from sustained-release formulations in young children," Principal investigator: Stanley J. Szefler, M.D., 6/1/84-3/31/85. Total direct costs $26,922.
10. Merck, Sharp and Dohme, "Comparison of efficacy and side effects of enprofylline, Theo-Dur and placebo in patients with mild to moderate asthma," Principal investigator: Harold Nelson, M.D. and co-investigator Stanley J. Szefler, M.D., 3/1/87-7/1/87. Total direct costs $41,000.
11. Food and Drug Administration, FD-R-000278-01, "Efficacy of troleandomycin in severe asthmatic children," Principal investigator: Stanley J. Szefler, M.D., 9/30/87-9/29/90, Annual direct costs $110,000.
12. Program Project Grant "Inflammation, airway reactivity and asthma," NIH-POL-HL-36577-02, Principal investigator: Richard Martin and co-investigator Stanley J. Szefler, M.D., for project "Nocturnal asthma and airways inflammation," 7/1/86-6/30/91, Annual direct costs $93,906.
13. William H. Rorer Pharmaceuticals, "Comparative evaluation of two sustained-release theophylline products in severe asthmatic children," Principal investigators: Stanley J. Szefler, M.D. and Malcolm Hill, Pharm. D., 7/1/87-6/30/88. Annual direct costs $30,061
14. Biomedical research support grant, National Jewish, "Corticosteroid concentrations in rabbit lung: Analysis of bronchoalveolar lavage fluid," Principal investigator: Malcolm Hill, Pharm. D. and co-investigator Stanley J. Szefler, M.D., 2/1/87-1/31/88. Direct costs $10,192.
15. Wallace Laboratories, "Placebo-controlled study of effectiveness and safety of azelastine in asthmatic patients," Principal investigator: Harold Nelson, M.D. and co-investigator Stanley J. Szefler, M.D., 8/1/87-2/28/89. Total direct costs $115,000.
16. Syntex Laboratories, "Performance assessment of the Accu-Level Theophylline II monitoring technique," Principal investigator: Stanley J. Szefler, M.D., 1/1/88-3/30/88. Total direct costs $5,000.
17. American College of Allergists, Fellowship training fund, "Clinical assessment of efficacy of troleandomycin in severe steroid-requiring asthmatic children," 7/1/87-6/30/88. Total direct costs $5,000 fellowship support for Bruce D. Ball, M.D.
18. Schering-Plough Corporation, "Short and long-term behavior change in asthmatic children taking theophylline," Principal investigator: Stanley J. Szefler, M.D., 9/1/87-8/30/89. Total direct costs $110,860.
19. American College of Allergists, Fellowship research training fund, "Do macrolide antibiotics inhibit cell infiltration into to the lung?" 7/1/88-6/30/89. Total direct costs $4,000 fellowship support for Leon Greos, M.D.
20. 3M/Riker Laboratories, "Single dose duration of action comparative study of pirbuterol, albuterol and placebo aerosols." Principal investigator: Malcolm Hill, Pharm. D. and Co-investigator Stanley J. Szefler, M.D. 9/1/88-1/30/89. Total direct costs $32,000.
21. W.H. Rorer, "Adrenal function in adult asthmatics during chronic treatment with aerosolized triamcinolone acetonide." Principal investigator - Stanley J. Szefler, M.D. 7/1/88-8/30/89. Total direct costs $64,000.
22. NIH-T32 HL 07670-01, "Academic Training in Pediatric Pulmonary Diseases." Gary Larsen, M.D. Principal investigator, S. J. Szefler, M.D. Co-investigator. 7/1/88-6/30/93. Annual direct costs $112,808, Total direct costs $760,452.
23. Program Project Grant "Inflammation, airway reactivity and asthma, NIH-2-P01-HL 36577-06. Co-Principal investigators: Donald Leung, M.D., Ph.D. and Stanley J. Szefler, M.D., for project "Steroid-resistant asthma" 7/1/91-6/30/96. Annual direct costs, $124,000.
24. Fisons Pharmaceuticals, A randomized double-blind multicenter group comparative study of the absolute efficacy and safety of nedocromil sodium 0.5% nebulizer solution TID in the treatment of children 2-4 years of age with bronchial asthma. Principal Investigator: Stanley J. Szefler, M.D. 9/1/91-12/1/92, $50,000.
25. Besselar, Inc. Randomized placebo-controlled study to determine the efficacy of budesonide in glucocorticoid treated asthma. Principal Investigator Stanley J. Szefler, M.D., 9/1/91 to 11/30/93, $120,000.
26. National Heart, Lung and Blood Institute, N01-HR-16048, Childhood Asthma Management Program. Principal Investigator: Stanley J. Szefler, M.D., 9/30/91 to 9/29/99. Total direct cost $6,413,517; annual cost $889,575.
27. National Heart, Lung and Blood Institute, HL51834, Asthma Clinical Research Network, Co-Principal Investigators - Richard Martin, M.D. and Stanley J. Szefler, M.D., 9/30/93-8/31/98, total direct cost $2,5000,000, annual direct cost $625,000; renewed for 9/1/98 to 8/31/2003.
28. Astra/Draco, "A study of 3 dose levels once a day of budesonide nebulizer suspension and placebo in asthmatic children age 8 and under. (Drug Study) Principal Investigator: Stanley J Szefler, MD. Dates and cost of entire project: 8/1/94-7/31/95, $76,745. Cost of current year: Same.
29. Merck Research Laboratories, "A multiple, double-blind, randomized, parallel-group study comparing MK-0476 to placebo in 6 - 14 year old patients with chronic asthma" Dates and cost of entire project: 7/1/95 - 10/30/96, $42,000.
30. 3M Pharmaceuticals, Inc., "Global clinical trial with inhaled HFA-134 beclomethasone dipropionate in childhood asthma," Principal Investigator: Stanley J. Szefler, M.D., Dates and cost of entire project: 9/96 - 12/97, $89,000.
31. Astra, Inc., "Initiating inhaled budesonide in asthmatic patients with recent onset of asthma," Global clinical trial, Principal Investigator: Stanley J. Szefler, M.D., Dates and cost of entire project: 9/96 - 8/2003, $140,000.
32. Glaxo Wellcome, Inc. - “Early intervention in childhood asthma,” National Jewish protocol sponsored by Glaxo Wellcome - multicenter trial, Principal Investigators: Erwin Gelfand, M.D. and Stanley J. Szefler, M.D., Dates and cost of entire project: 9/96 - 12/98, $1,200,000.
33. National Heart, Lung and Blood Institute, HL51834, Asthma Clinical Research Network, Co-Principal Investigator - Richard Martin, M.D.; Co-investigator Stanley J. Szefler, M.D., 9/30/98-8/31/03, total direct cost $2,5000,000, annual direct cost $625,000.
34. National Institute of Child Health and Human Development, 1 U01 HD37237, Pediatric Pharmacology Research Unit Network, Principal Investigator: Stanley J. Szefler, M.D. Dates and cost of project: Year 1 1/1/1999-12/31/2000; $267,508; entire project 1/1/1999-12/31/2003: $1,355,175.
35. National Heart, Lung and Blood Institute, N01-HR-16048, Childhood Asthma Management Program Continuation Study. Principal Investigator: Stanley J. Szefler, M.D., 9/30/99 to 4/30/04. Total direct cost $2,000,00; annual cost $400,000.
36. National Heart, Lung, and Blood Institute, Childhood Asthma Research and Education Network. 1U10 HL64288, Year 1: 9/30/99 - 9/29/00, $600,000; Principal Investigator Denver site, entire project 9/30/99 - 9/29/04 $3,500,000.
37. National Institute of Child Health and Human Development, 1 U01 HD37237-04S1, Pediatric Pharmacology Research Unit Network Directors Funds Award, Principal Investigator: Stanley J. Szefler, M.D. Dates and cost of project: 9/30/2002-12/31/2003; $122,143.
38. National Institutes of Allergy and Infectious Diseases, Inner City Asthma Consortium, N01-AI-25496, Associate Principal Investigator for consortium; Principal Investigator Denver site, entire project 9/30/02-12/31/09; Year 1 – 158,000 core funds plus additional study budget funds; total 6 year project funding approximately $6,000,000 pending project development timeline.
39. National Heart, Lung and Blood Institute, N01-HR-16048, Childhood Asthma Management Program Continuation Study/Phase 2. Principal Investigator: Stanley J. Szefler, M.D., 5/1/04 to 9/30/08. Year cost 132,627; total award $809,822.
40. Ross Pharmaceuticals, Evaluation of a nutritional formula for asthma intervention in children, 6/1/04-12/31/05. Principal Investigator, S. J. Szefler, Total award, $1,100,000.
41. Colorado Cancer, Cardiovascular and Pulmonary Disease Grants. “Reducing School Absence due to Asthma Exacerbations in the Denver Public School System, 1/1/06 – 6/31/06 $267,000; with continuation from 7/1/06 to 6/31/08 for total of $1,200,000.
42. NIH/NHLBI, Proteomics Program in Lung Disease. Frank Accurso, MD, PI, 10/01/05 – 09/30/09 $930,057.
43. Glaxo Smith Kline “Reducing health disparities for asthma with an evidence-based school program ["OAS study"]”, Principal Investigator: Stanley J. Szefler, MD, September 1, 2008 to August 31, 2009. Total grant: $150,000.
44. National Heart, Lung and Blood Institute, R21HL087811, Progression of Airway Obstruction in Childhood Asthma. Principal Investigator: Stanley J. Szefler, MD, 9/1/08-6/30/11. Year cost $234,000; total award 429,000.
45. National Heart, Lung and Blood Institute, HL51834, Asthma Clinical Research Network, Co-Principal Investigator - Richard Martin, M.D.; Co-Investigator Stanley J. Szefler, M.D., 9/30/03-8/31/11, total direct cost $2,5000,000, annual direct cost $625,000.
46. National Heart, Lung, and Blood Institute, Childhood Asthma Research and Education Network. 1U10 HL64288, Year 1: 9/30/04 - 9/29/05, $815,000; Principal Investigator Denver site, entire project 9/30/04 - 9/29/11 $4,327,075.
47. Colorado Cancer, Cardiovascular and Pulmonary Disease Grant #06-FLA-00845, Principal Investigator: Stanley J. Szefler, MD, 7/1/09-9/30/12. Total grant: $1,100,000.
48. National Heart, Lung and Blood Institute, 2U01-HL-075416, Childhood Asthma Management Program Continuation Study/Phase 3. Principal Investigator: Stanley J. Szefler, M.D., 10/1/07 to 9/30/11. Year cost 150,684; total award $631,000.
49. Inner City Asthma Consortium (ICAC) II N01-AI-90052 and N01 AI025496. Principal Investigator: William Busse, MD [Madison, WI; Co-investigator: Stanley J. Szefler, MD, 9/29/09-9/30/14, funding determined based on protocols. [renewed for 10/1/14-3/30/15]
50. National Institute of Environmental Health Sciences/Environmental Protection Agency. 1 P01 ES018181, Childhood Environment and Health Center Grant (CEHC). Principal Investigator: David Schwartz, Co-Director: Stanley Szefler, MD, 9/30/09 - 9/29/14, total funding: $6,000,000.
51. Glaxo Smith Kline, Building Bridges for Asthma Program. Principal Investigator: Stanley J. Szefler, MD, 1/1/12-12/31/16, total $3,000,000.
52. Colorado Cancer, Cardiovascular and Pulmonary Disease Grant #13-FLA-48556, Step Up Asthma program for the Denver Public Schools, Principal Investigator: Stanley J. Szefler, MD, 10/1/12-6/30/15. Total grant: $1,253,128. [renewed for 7/1/15-6-30-18; Year 1 $795,000.
53. Roche Clinical Trial, lebrikizumab in adolescents with asthma, 12/1/14-present, total, approximately $90,000.
54. Colorado Cancer, Cardiovascular and Pulmonary Disease Grant #17 FHLA 93211 and 18 FHLA 96089 , Breathing Counts, Principal Investigator: Heather Hoch, MD, 10/1/16-6/30/18. Total grant: $700,000.
55. National Heart, Lung and Blood Institute, 1U10HL098075, Asthma Research Network (AsthmaNet), Co\_Principal Investigators: Michael Wechsler, MD [Medicine] and Stanley J. Szefler, MD [Pediatrics], 9/30/09 - 9/29/18 with NCE. Total funding: $5,782,376.
56. National Heart, Lung and Blood Institute, 1 UG1 HL139123, Precision Interventions for Severe and/or Exacerbation Prone Asthma (PrecISE). Co-Principal Investigators: Michael Wechsler, MD and Stanley J. Szefler, MD. 9-1-17-8-31-23, Direct Costs: Year 1 #$240,000 plus patient care costs per year.
57. Colorado Cancer, Cardiovascular and Pulmonary Disease Program, Colorado Department of Public Health and Environment, AsthmaCOMP, 7-1-18 to 6-30-21, total funding: $917,000 per year.
58. **Bibliography: CU Profiles** [**https://profiles.ucdenver.edu/display/3353673**](https://profiles.ucdenver.edu/display/3353673)

A. Publications in refereed journals:

1. **Szefler SJ**, Jusko WJ. Decreased volume of distribution of digoxin in a patient with renal failure. Res Comm Chem Pathol Pharmacol 6:l095-l098, l973.
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D. Contribions to Network studies

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E. Letters to the Editor

None

F. Abstracts:

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