

MARK S. SCHUBERT, M.D., Ph.D.

Allergy Asthma Clinic, Ltd.
 300 W. Clarendon
 #120
 Phoenix, AZ 85013

DEGREES:

<u>Institution and Location</u>	<u>Degree / Year</u>	<u>Major / Minor</u>
Arizona State University Tempe, AZ	B.S. / 1974 (With Distinction)	Microbiology/ Chemistry
University of Arizona Tucson, AZ	Ph.D. / 1979	Molecular Biology/ Biochemistry
University of Arizona Tucson, AZ	M.D. / 1983	Medicine

POSTGRADUATE EDUCATION AND PROFESSIONAL EXPERIENCE:

7/83-6/84	General Surgical Resident; Good Samaritan Regional Medical Center and Phoenix V.A. Medical Center Integrated Surgical Residency, Phoenix, AZ.	
7/84-12/84	Neurosurgical Resident; Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, Phoenix, AZ.	
1/85-4/85	Transplant Fellow; Phoenix Transplant Center, Good Samaritan Regional Medical Center, Phoenix, AZ.	
5/85-6/87	Assistant Director, Transplantation Immunology; Southwest Biomedical Research Institute, Scottsdale, AZ.	
5/85-6/87	Internal Medicine Resident; Good Samaritan Regional Medical Center and Phoenix V.A. Medical Center Integrated Internal Medicine Residency, Phoenix, AZ.	
7/87-6/89	Fellow in Medicine (Allergy/Immunology/Rheumatology); Department of Medicine, Division of Immunology, Stanford University School of Medicine, Stanford, CA.	

- 7/87-6/89 Postdoctoral Scholar; Department of Medicine, Division of Immunology, Stanford University School of Medicine, Stanford, CA.
- 7/89-6/19 Private Practice, Adult and Pediatric Allergy, Asthma and Immunology; Allergy Asthma Clinic, Ltd.
- 7/19-present Status Emeritus (retired from private practice), Adult and Pediatric Allergy, Asthma and Immunology; Allergy Asthma Clinic, Ltd.

ACADEMIC APPOINTMENT:

Clinical Associate Professor of Medicine, Department of Medicine, University of Arizona College of Medicine, Phoenix and Tucson, AZ; 2000- present.

CERTIFICATIONS:

Diplomate of the American Board of Allergy and Immunology, A Conjoint Board of the American Board of Pediatrics and American Board of Internal Medicine (American Board of Medical Specialties, Board Certified- 10/1989; Recertified- 8/1999, Recertified- 10/2009, Recertified- 1/2020).

Diplomate of the American Board of Internal Medicine (American Board of Medical Specialties, Board Certified- 9/87).

Diplomate of the National Board of Medical Examiners, Board Certified 1984.

Medical License: Arizona, #14880.

AWARDS:

“Top Doctors 2019,” *Phoenix Magazine*, April 2019.

“Top Doctors 2018,” *Phoenix Magazine*, April 2018.

The Best Doctors in America; Best Doctors, Inc. Publisher (www.bestdoctors.com), Aiken, SC, 2017-2018.

“Top Doctors (top vote-getter in subspecialty) 2017,” *Phoenix Magazine*, April 2017.

Certificate of Outstanding Contribution in Reviewing, *Journal of Allergy and Clinical Immunology:In Practice*, March, 2017.

“Top Doctors 2016,” *Phoenix Magazine*, April 2016.

The Best Doctors in America; Best Doctors, Inc. Publisher (www.bestdoctors.com), Aiken, SC, 2016

The Best Doctors in America; Best Doctors, Inc. Publisher (www.bestdoctors.com), Aiken, SC, 2015.

“Top Doctors 2015,” *Phoenix Magazine*, April 2015. (“All-Time Specialty Leader- Allergy and Immunology”).

“Top Doctors 2014,” *Phoenix Magazine*, April 2014.

The Best Doctors in America; Best Doctors, Inc. Publisher (www.bestdoctors.com), Aiken, SC, 2014.

The Best Doctors in America; Best Doctors, Inc. Publisher (www.bestdoctors.com), Aiken, SC, 2013.

“Top Doctors 2013,” *Phoenix Magazine*, April 2013.

“Top Doctors 2012,” *Phoenix Magazine*, April 2012.

“Top Doctors 2011,” *Phoenix Magazine*, April 2011.

The Best Doctors in America; Best Doctors, Inc. Publisher (www.bestdoctors.com), Aiken, SC, 2011-2012.

The Best Doctors in America; Best Doctors, Inc. Publisher (www.bestdoctors.com), Aiken, SC, 2009-2010.

“Top Doctors 2010,” *Phoenix Magazine*, April 2010.

"Top Doctors 2009," *Phoenix Magazine*, April 2009.

"Top Doctors 2008," *Phoenix Magazine*, April 2008.

The Best Doctors in America; Best Doctors, Inc. Publisher (www.bestdoctors.com), Aiken, SC, 2007-2008.

"Top Doctors 2007," *Phoenix Magazine*, April 2007.

"Top Doctors 2006," *Phoenix Magazine*, April 2006.

The Best Doctors in America; Best Doctors, Inc. Publisher (www.bestdoctors.com), Aiken, SC, 2005-2006.

"Top Doctors 2005," *Phoenix Magazine*, April 2005.

"Top Doctors 2004," *Phoenix Magazine*, April 2004.

The Best Doctors in America; Best Doctors, Inc. Publisher (www.bestdoctors.com), Aiken, SC, 2003-2004.

"Top Doctors 2003; The Best 272 Doctors in Town," *Phoenix Magazine*, April 2003.

"Top Doctors," *Phoenix Magazine*, April, 2002.

The Best Doctors in America; Best Doctors, Inc. Publisher (www.bestdoctors.com), Aiken, SC, 9th Edition, 2001-2002.

"Top-rated Physicians, Guide to Top Doctors," Center for the Study of Services (www.guidetotopdoctors.org), Washington, D.C., 1999, 2002, 2012.

"Top Doctors 2001," *Phoenix Magazine*, April, 2001.

"Top Docs," *Phoenix Magazine*, April, 1999.

The Best Doctors in America; Woodward/White, Inc. Publisher, Aiken, SC, 4th Edition, 1998.

"Top Docs," *Phoenix Magazine*, April, 1998.

"Best Doctors," *Phoenix Magazine*, April, 1996.

The Best Doctors in America: Pacific Region; Woodward/White, Inc. Publisher, Aiken, SC, 1st Edition, 1996.

"Top Docs: Who Local M.D.'s Pick When They Need A Doctor; 237 Physicians in 23 Specialties," *Phoenix Magazine*, April, 1995.

America's Top Doctors; Castle Connolly Medical Ltd. Publisher, New York, NY: 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017.

Excellence in Teaching Award, St. Joseph's Hospital and Medical Center, Dept. of Internal Medicine, 2011, 2012.

American Medical Association Physician Recognition Award; 1989, 1993, 1997.

"Upjohn Achievement Award for Excellence in Medicine" Good Samaritan Regional Medical Center and Phoenix Veterans Hospital Internal Medicine Residency Program, June 1987.

"Bernard Amos/Sandoz Young Investigator Award for Research in Transplantation Immunology" awarded by the Southeastern Organ Procurement Foundation (SEOPF); May 1986.

National Research Service Award; National Institutes of Health, Bethesda, MD; 1975-1978, 1987-1988.

COMMUNITY AND PROFESSIONAL SERVICE:

Clinical Associate Professor of Medicine, Department of Medicine, University of Arizona College of Medicine, Phoenix and Tucson, AZ; 2000- present.

Journal Manuscript Peer Reviewer:

The Journal of Allergy and Clinical Immunology: In Practice
Annals of Allergy, Asthma, and Immunology
International Archives of Allergy
Otolaryngology Head and Neck Surgery
American Journal of Rhinology
Clinical and Experimental Allergy
Allergy and Asthma Proceedings
Indian Journal of Medical Sciences
Southern Medical Journal
Medical Mycology
Journal of Medical Microbiology

Team Allergist, Arizona Diamondbacks Baseball Team; 1996- 2012.

Executive Editorial Board, *Allergy and Asthma Proceedings*; 2001-2005.

"Ask the Doctor;" Asthma Special Series (message board), *Arizona Republic Newspaper* (azcentral.com); Feb. 2001.

President, Arizona Allergy and Asthma Society 1995-1996, Vice-President 1994-1995, Secretary-Treasurer 1992-1993.

President, Greater Phoenix Allergy and Asthma Society 1995-1997, Vice-President 1993-1995, Secretary-Treasurer 1991-1993.

Teaching Attending, Internal Medicine Residency Residency Program, Banner Good Samaritan Regional Medical Center / Phoenix VA, Phoenix, AZ; 1990-present.

Teaching Attending, Internal Medicine Residency Residency Program, St. Joseph's Hospital and Medical Center, Phoenix, AZ; 1990-present.

Allergy Consultant, City of Phoenix Environmental Quality Commission, 1992; Maricopa County Association of Governments, 1993. (Note: We banned new plantings of olive and mulberry trees in metro Phoenix based on a scientific analysis as a public health control measure).

Class Representative, Class of 1983, College of Medicine, University of Arizona, Tucson, AZ; 1981-1983.

Patient's Advocate, The Free Clinic of Tucson, Tucson, AZ; 1978-1980.

Honors Preceptor, The Professional Internship Program, Tucson Unified High School District, Tucson, AZ; 1974-1981.

Teaching Assistant; Department of Microbiology, College of Medicine, Arizona Health Sciences Center, University of Arizona, Tucson, AZ; 1978-1979.

PROFESSIONAL SOCIETIES:

Fellow, American College of Allergy, Asthma and Immunology

Fellow, American Academy of Allergy, Asthma and Immunology

Fellow, American College of Physicians

Fellow, American College of Chest Physicians

Fellow, American College of Rheumatology

Joint Council of Allergy, Asthma and Immunology

Western Society of Allergy, Asthma and Immunology

Greater Phoenix Allergy and Asthma Society

Arizona Allergy and Asthma Society

Arizona Infectious Diseases Society

Phoenix Rheumatology Association

Maricopa County Medical Society

American Association for the Advancement of Science

American Medical Association

PERTINENT INVITED LECTURES AND PRESENTATIONS:

Effect of RNA on the Immune System, Jan. 1978, Department of Microbiology, Arizona Health Sciences Center, College of Medicine, University of Arizona, Tucson, AZ.

Lectin-Induced Modulation of Cell-Mediated Cytotoxicity, Nov. 1979, Department of Microbiology, Arizona Health Sciences Center, College of Medicine, University of Arizona, Tucson, AZ.

Brain Tumor Immunology, Dec. 1984, Neurosurgical Grand Rounds, Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, Phoenix, AZ.

Transplantation Immunology, May 1985, Arizona State University, Tempe, AZ.

Appearance of IL2-R Bearing Cells as a Prognosticator for Immune-Mediated Events in the Renal Transplant Patient, July 1985, First International Symposium on Monitoring and Manipulation in Autoimmune Disease and Organ Transplantation, Montebello, Quebec, Canada.

Effects of Cyclosporine A on T Cell Subpopulations, April 1986, Arizona State Society of Medical Technology, Mesa, AZ.

Cyclosporine A Inhibits Both the Generation and Function of Lectin-Dependent Cell-Mediated Cytotoxicity: Delineation of a Distinct Effector Cell, May 1986, presented at the scientific session of the annual Southeastern Organ Procurement Foundation meeting as the recipient of the Bernard Amos / Sandoz Young Investigator Award, Lexington, KY.

Delineation of a Distinct Lymphocyte Subpopulation with Cyclosporine A, June 1986, Internal Medicine Grand Rounds, Good Samaritan Regional and Phoenix VA Medical Centers, Phoenix, AZ.

Lectin-Dependent Cell-Mediated Cytotoxicity, June 1987, Southwest Biomedical Research Institute, Scottsdale, AZ.

Beta-Lactam Hypersensitivity; Penicillin-Cephalosporin Cross-Reactivity, Nov. 1987, Stanford Allergy Lecture Series, Stanford University College of Medicine, Stanford, CA.

Primary Immunodeficiency States, Jan. 1989, Immunology Grand Rounds, Stanford University College of Medicine, Stanford, CA.

The Significance of a Skin Test Result; False Negative or False Positive? May 1989, Stanford Allergy Lecture Series, Stanford University College of Medicine, Stanford, CA.

Immunology for the Practicing Physician; Mechanisms and Diseases, Feb. 1990, Internal Medicine Grand Rounds, Good Samaritan Regional and Phoenix VA Medical Centers, Phoenix, AZ.

Allergy and Immunology for the Internist, March 1990, Internal Medicine Lecture Series, Good Samaritan Regional Medical Center, Phoenix, AZ.

Allergic Fungal Sinusitis, Aug. 1990, Internal Medicine Grand Rounds, Good Samaritan Regional and Phoenix VA Medical Centers, Phoenix, AZ.

Immunology for the Practicing Physician, 1990, Sept. 1990, Grand Rounds, John C. Lincoln Hospital, Phoenix, AZ.

Immunology for the Practicing Physician; Mechanisms and Diseases, Feb. 1991, Medicine Grand Rounds, St. Joseph's Hospital and Medical Center, Phoenix, AZ.

The Immunopathogenesis of Asthma; Implications for Treatment, April 1991, Pulmonary Physiology Conference, Good Samaritan Regional Medical Center, Phoenix, AZ.

Allergic Fungal Sinusitis; A Newly Recognized Allergic Disorder, April 1991, Grand Rounds, John C. Lincoln Hospital, Phoenix, AZ.

Newer Aspects of Allergic Respiratory Tract Disease, Nov. 1991, Update in Clinical Medicine, American College of Physicians, Scottsdale, AZ.

The Immunopathogenesis of Asthma, Jan. 1992, Dept. of Internal Medicine, St. Joseph's Hospital and Medical Center, Phoenix, AZ.

Asthma at Night, Feb. 1992, Asthma Information Conference, Arizona State University West, Glendale, AZ.

How to Survive the Allergy Season in Phoenix, March 1992, Wellness Program Lecture Series, The Dial Corporation, Phoenix, AZ.

Allergies and Spring Training, March 1992, Spring Training Seminar, Professional Baseball Athletic Trainers Society, Mesa, AZ.

The Role of the Allergist and Otolaryngologist in Allergic Fungal Sinusitis, A New Allergic Disorder, Oct. 1992, Greater Phoenix Allergy and Asthma Society, Phoenix, AZ.

Pathophysiology, Diagnosis, and Treatment of Allergic Rhinitis, Dec. 1992, Dept. of Internal Medicine, St. Joseph's Hospital and Medical Center, Phoenix, AZ.

Diagnosis and Treatment of Common Allergy, Feb. 1993, CME Presentation, Student Health Center, Arizona State University, Tempe, AZ.

The Immunopathogenesis of Asthma; Implications for Treatment, April 1993, Greater Phoenix Allergy and Asthma Society, Phoenix, AZ.

Samaritan Presents: Help for Allergies, Jan. 1994, KPHX Channel 12 (NBC) Television, Phoenix, AZ.

Allergic Rhinitis, March 1994, Medicine Conference, Good Samaritan Regional Medical Center, Phoenix, AZ.

Angioedema, Sept. 1994, Arizona Allergy and Asthma Society, Scottsdale, AZ.

Allergic Fungal Sinusitis, Oct. 1994, Infectious Diseases Conference, Dept. of Internal Medicine, Phoenix VA Medical Center, Phoenix, AZ.

Update on Chronic Rhinosinusitis, August 1995, Internal Medicine Grand Rounds, Good Samaritan Regional and Phoenix VA Medical Centers, Phoenix, AZ.

Mastocytosis, October 1995, Arizona Allergy and Asthma Society, Tucson, AZ.

ABC's of Asthma, Jan. 1996, American Lung Association, 1995-1996 Asthma ABC's Seminars, Arizona State University West, Glendale, AZ.

Newer Concepts in Chronic Rhinosinusitis, Jan. 1996, Medicine Grand Rounds, St. Joseph's Hospital and Medical Center, Phoenix, AZ.

Primary Immunodeficiency for the Internist, May 1996, Infectious Diseases Conference, Dept. of Internal Medicine, Phoenix VA Medical Center, Phoenix, AZ.

The Biology of Chronic Recurring Hypertrophic Rhinosinusitis, May 1996, Greater Phoenix Allergy and Asthma Society, Phoenix, AZ.

Allergic Fungal Sinusitis, July 1996, Medicine Grand Rounds, Phoenix Baptist Hospital, Phoenix, AZ.

Allergic Respiratory Diseases for the Internist, August 1996, Internal Medicine Grand Rounds, Good Samaritan Regional and Phoenix VA Medical Centers, Phoenix, AZ.

From Amaranths to Zygomycetes; Allergy for the Phoenix Primary Care Physician, April 1997, Primary Care Physicians, Phoenix, AZ.

Modern Concepts in Allergy, July 1997, Philippine Medical Association of Nevada, Las Vegas, NV.

Allergic Rhinosinusitis, Sept. 1997, Internal Medicine Grand Rounds, Good Samaritan Regional and Phoenix VA Medical Centers, Phoenix, AZ.

Newer Concepts in Chronic Rhinosinusitis, Sept. 1997, Southwestern Medical Group, Las Vegas, NV.

Allergic Rhinosinusitis in the Southwest, Oct. 1997, Arizona Chapter, American Academy of Family Physicians, Phoenix, AZ.

Approaches to Asthma Management, Dec. 1997, Pulmonary Grand Rounds, Good Samaritan Regional Medical Center, Phoenix, AZ.

Drug Allergy, Feb. 1998, Infectious Diseases Conference, Phoenix VA Medical Center, Phoenix, AZ.

New Advances in Allergic Sinus Disease, March 1998, Primary Care Specialists, Tempe, AZ.

Management of Chronic Sinusitis, March 1998, Pulmonary Grand Rounds, Good Samaritan Regional Medical Center, Phoenix, AZ.

New Concepts in Allergic Sinus Disease; From Bench to Bedside, May 1998, Internal Medicine Grand Rounds, Good Samaritan Regional and Phoenix VA Medical Centers, Phoenix, AZ.

Primary Immune Deficiencies, June 1998, Internal Medicine Lecture Series, Good Samaritan Regional and Phoenix VA Medical Centers, Phoenix, AZ.

Allergic Fungal Sinusitis, Dec. 1998, Greater Phoenix Allergy and Asthma Society, Phoenix, AZ.

Allergic Fungal Sinusitis: A New Allergic Disorder, Jan. 1999, Internal Medicine Grand Rounds, Good Samaritan Regional and Phoenix VA Medical Centers, Phoenix, AZ.

Diagnosis and Treatment of Allergic Fungal Sinusitis, Jan. 1999, Arizona Otolaryngologists, Phoenix, AZ.

Chronic Rhinosinusitis in the Southwest, April 1999, Grand Rounds, Dept. of Family Practice, St. Joseph's Hospital and Medical Center, Phoenix, AZ.

Chronic Inflammatory Hypertrophic Rhinosinusitis in the Southwest, April 1999, Arizona Society of Otolaryngology and Head & Neck Surgery, Tucson, AZ.

Allergic Fungal Sinusitis, April 1999, Arizona Society of Otolaryngology and Head & Neck Surgery, Tucson, AZ.

Chronic Rhinosinusitis in the Southwest, April 1999, Arizona Society of Hospital Pharmacists, Phoenix, AZ.

Chronic Sinusitis; Infectious Disease or Asthmatic Disease? May 1999, Grand Rounds, John C. Lincoln Hospital and Medical Center, Phoenix, AZ.

Could Your Patient Have Allergic Fungal Sinusitis? June 1999, Primary Care Physicians, Scottsdale, AZ.

Allergy Update, Sept. 1999, Medical Standards in the Year 2000 and Beyond, Samaritan Health System, Phoenix, AZ.

Medical Treatment of Fungal Sinusitis, Nov. 1999, Plenary Session, 1999 annual meeting of the American College of Allergy, Asthma, and Immunology, Chicago, IL.

New Directions in the Treatment of Asthma, Dec. 1999, Pulmonary Physiology Conference, Good Samaritan Regional Medical Center, Phoenix, AZ.

New Advances in Chronic Rhinosinusitis in the Southwest, Dec. 1999, Internal Medicine Grand Rounds, St. Joseph's Hospital and Medical Center, Phoenix, AZ.

Clinical Approaches to Pediatric Asthma, Dec. 1999, Primary Care Specialists, Mesa, AZ.

Allergy 2000, Feb. 2000, Sun City West Nurses Club, Sun City West, AZ.

Asthma Case Management, April 2000, Good Samaritan Regional Medical Center Pulmonary Fellowship Program, Phoenix, AZ.

Leukotriene Modifiers: A New Therapeutic Choice for Asthma, July 2000, Primary Care Specialists, Scottsdale, AZ.

Achieving Goals in Asthma Therapy, Sept. 2000, CME Program, Yuma Regional Medical Center, Yuma, AZ.

New Concepts in Allergic Disease: It May Be More Interesting Than You Think! Oct. 2000, Community Physicians, Chandler, AZ.

Asthma Immunobiology, Nov. 2000, Good Samaritan Regional Medical Center Pulmonary Fellowship Program, Phoenix, AZ.

Advances in Allergic Rhinitis and Rhinosinusitis, Feb. 2001, Phoenix Metropolitan Otolaryngologists, Phoenix, AZ.

Optimal Treatment of Allergic Rhinitis, Feb. 2001, Primary Care Physicians, Phoenix, AZ.

Allergic Rhinosinusitis: What is It? May 2001, Community Physicians, Phoenix, AZ.

New Concepts in Allergic Diseases, May 2001, Philippine Society of Physicians, Mesa, AZ.

Treatment Options for Seasonal Allergic Rhinitis, June 2001, Community Physicians, Phoenix, AZ.

Allergy Update 2001, July 2001, Community Physicians, Prescott, AZ.

Current Concepts in Allergic Respiratory Diseases, Sept. 2001, Community Physicians, Phoenix, AZ.

Evidence And Implications For A Unifying Hypothesis For The Pathogenesis Of All Common Chronic Eosinophilic-Lymphocytic Inflammatory Respiratory Mucosal Disorders, Medicine Grand Rounds, Oct. 2001, Mayo Clinic, Scottsdale, AZ.

Seasonal Allergic Rhinitis, Oct. 2001, Community Physicians, Yuma, AZ.

Southwest Allergy Disease Update, Nov. 2001, Community Physicians, Tempe, AZ.

Allergic Respiratory Diseases, April 2002, Community Physicians, Phoenix, AZ.

High Resolution HLA Class II DNA Haplotyping in Allergic Fungal Rhinosinusitis and Hypertrophic Sinus Disease: The Role of HLA DQ3, March 2003, American Academy of Allergy, Asthma and Immunology 2003 Annual Meeting, Denver, CO.

Addressing Asthma in 2003; Focus on the Small Airways, Sept. 2003, Community Physicians, Phoenix, AZ.

Allergic Fungal Sinusitis, Feb. 2004, Allergy, Asthma, and Immunology Foundation of Northern California, San Francisco, CA.

Allergy and Asthma in the Professional Athlete, Feb. 2004, Major League Professional Baseball Athletic Trainers Society, Tucson, AZ.

Allergic Fungal Sinusitis; The Real Thing, March 2004, Symposium- Chronic Sinus Disease: Symptoms, Mechanisms, and Treatment, American Academy of Allergy, Asthma and Immunology 2004 Annual Meeting, San Francisco, CA.

Allergy and Asthma in Pregnancy, March 2004, 27th Annual Symposium in Obstetrics and Gynecology: Innovations in Obstetrics and Gynecology, Scottsdale, AZ.

Allergy/Immunology Update, Nov. 2004, 20th Annual Update in Clinical Medicine, Scottsdale Hilton Resort and Villas, Scottsdale, AZ.

Rhinosinusitis: Developing Guidance for Clinical Trials, American Academy of Allergy, Asthma and Immunology, Feb. 2005, Bethesda, MD.

Allergic Fungal Sinusitis: Pathogenesis, Diagnosis, Management, Controversies, March 2005, American Academy of Allergy, Asthma and Immunology 2005 Annual Meeting, San Antonio, TX.

Allergic Fungal Sinusitis and Other Chronic Rhinosinusitis Disorders, Sept. 2005, Arizona Allergy and Asthma Society, Phoenix, AZ.

Allergy and Immunology for the Internist in 2005, Dec. 2005, Internal Medicine Grand Rounds, Good Samaritan Regional Medical Center, Phoenix, AZ.

Basic Immunology for the Internist, June 2006, Internal Medicine Residency, Good Samaritan Regional Medical Center, Phoenix, AZ.

Chronic Sinus Disease, Feb. 2007, American Academy of Allergy, Asthma and Immunology 2007 Annual Meeting, San Diego, CA.

Allergy and Immunology for the Internist, Aug. 2007, Internal Medicine Residency, Good Samaritan Regional Medical Center, Phoenix, AZ.

Allergic Fungal Sinusitis, Jan. 2008, 3rd Advances Against Aspergillosis, Miami Beach, FL.

Acute and Chronic Rhinosinusitis, July 2008, California Society for Allergy, Asthma, and Immunology Annual Meeting, Huntington Beach, CA.

Allergic Fungal Sinusitis, July 2008, California Society for Allergy, Asthma, and Immunology Annual Meeting, Huntington Beach, CA.

Recent Progress and Controversies in Diagnosis of Allergic Fungal Sinusitis, Nov. 2008, Arizona Society of Pathologists, Mayo Clinic, Scottsdale, AZ.

Allergic Fungal Sinusitis, and *Today and Tomorrow in Sinus Care*; Feb. 2009, Advanced Techniques in Endoscopic Sinus Surgery, California Sinus Institute, Palo Alto, CA.

ABPA and Fungal Hypersensitivity of the Upper and Lower Airways; March 2009, American Academy of Allergy, Asthma and Immunology 2009 Annual Meeting, Washington, D.C.

Allergic Fungal Sinusitis, and *Today and Tomorrow in Sinus Care*; Feb. 2010, Advanced Techniques in Endoscopic Sinus Surgery, California Sinus Centers, Stanford University, Arizona Sinus Center, Scottsdale, AZ.

ABPA and Fungal Hypersensitivity of the Upper and Lower Airways; March 2010, American Academy of Allergy, Asthma and Immunology 2010 Annual Meeting; New Orleans, LA.

Allergic Fungal Sinusitis; Feb. 2011, Advanced Techniques in Endoscopic Sinus Surgery, California Sinus Centers, Stanford University, Arizona Sinus Center; Scottsdale, AZ.

ABPA and Fungal Sensitization in Upper and Lower Respiratory Disease; Nov. 2011, American College of Allergy, Asthma and Immunology 2011 Annual Meeting; Boston, MA.

Allergic Fungal Sinusitis; Feb. 2012, Advanced Techniques in Endoscopic Sinus Surgery 2012, California Sinus Centers, Arizona Sinus Center, Banner Health, Scottsdale, AZ.

Hypersensitivity and Allergic Diseases Part I; August 2013, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Hypersensitivity and Allergic Diseases Part II; August 2013, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Tackling Problematic Chronic Rhinosinusitis: A Conclave of Global Experts; March 2014, Mayo School of Continuous Professional Development, Mayo Clinic, Phoenix, AZ.

Hypersensitivity I; Molecular Basis of Life and Disease; Sept. 2014, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Hypersensitivity II; Molecular Basis of Life and Disease; Sept. 2014, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Tackling Problematic Chronic Rhinosinusitis: Debates and Consensus; March 2015, Mayo School of Continuous Professional Development, Mayo Clinic, Phoenix, AZ.

Hypersensitivity I; Molecular Basis of Life and Disease; Sept. 2015, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Hypersensitivity II; Molecular Basis of Life and Disease; Sept. 2015, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Diagnosis and Management of Allergic Fungal Sinusitis; Tackling Problematic Sinusitis: Module-Based Solutions 2016; March 2016, Mayo School of Continuous Professional Development, Mayo Clinic, Phoenix, AZ.

Hypersensitivity I; Molecular Basis of Life and Disease; Sept. 2016, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Hypersensitivity II; Molecular Basis of Life and Disease; Sept. 2016, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Allergic Fungal Sinusitis Medical Management; Tackling Problematic Sinusitis: Benchtop to Better Outcomes 2017; March 2017, Mayo School of Continuous Professional Development, Mayo Clinic, Phoenix, AZ.

Hypersensitivity I; Molecular Basis of Life and Disease; Sept. 2017, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Hypersensitivity II; Molecular Basis of Life and Disease; Sept. 2017, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Management of Allergy and Immunodeficiency in the CRS Patient; Tackling Problematic Sinusitis: Evolving Towards Personal Management; March 2018, Mayo School of Continuous Professional Development, Mayo Clinic, Phoenix, AZ.

Hypersensitivity I; Molecular Basis of Life and Disease; Sept. 2018, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Hypersensitivity II; Molecular Basis of Life and Disease; Sept. 2018, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Hypersensitivity I; Molecular Basis of Life and Disease; Sept. 2019, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

Hypersensitivity II; Molecular Basis of Life and Disease; Sept. 2019, University of Arizona College of Medicine, Phoenix Campus, Phoenix, AZ.

ABSTRACTS:

Schubert MS, Lucas DO. RNA-Mediated suppression of cell-mediated cytotoxicity. *Fed Proc Abstracts* 1978;37,6:459.

Schubert MS, Motil J, Cohen M, Radvany RM, Koep L, Vanderwerf BA. Appearance of IL2-R bearing cells as a prognosticator for immune-mediated events in the renal transplant patient. First International Symposium on Monitoring and Manipulation in Autoimmune Disease and Organ Transplantation, Quebec, Canada, 1985.

Schubert MS, Radvany RM, Cohen M, Vanderwerf BA. Modulation of lectin-dependent cell-mediated cytotoxicity by cyclosporine A. Sixth International Congress of Immunology, Toronto, Canada, 1986.

Schubert MS, Radvany RM. The functional differentiation of the CD3+4-8- lymphocyte subpopulation from all other lymphocytes. *J Allergy Clin Immunol* 1988;81:196.

Dhillon MDS, **Schubert MS**, Holm B, Strober S. Donor-specific immune unresponsiveness in TLI renal transplantations. *J Allergy Clin Immunol* 1989;83:225.

Schubert MS, Dhillon MDS, Strober S. A procedure for growing long-term human splenocyte cultures for use in the cell-mediated lympholysis (CML) assay. *J Allergy Clin Immunol* 1989;83:201.

Hutcheson P, Suffian L, Citardi M, Currens J, Chauhan B, Santiago L, **Schubert M**, Slavin R. The role of HLA-D in the pathogenesis of allergic fungal sinusitis. *J Allergy Clin Immunol* 2001;107:s168.

Hutcheson P, **Schubert MS**, Santiago LA, Graff RJ, Chauhan B, Slavin RG. HLA class II haplotypes in allergic fungal sinusitis and hypertrophic sinus disease. *J Allergy Clin Immunol* 2002;109:s219.

Schubert MS, Hutcheson PS, Graff RJ, Slavin RG. High resolution HLA class II DNA haplotyping in allergic fungal rhinosinusitis and hypertrophic sinus disease: The role of HLA DQ3. *J Allergy Clin Immunol* 2003;111:s123.

Hutcheson PS, **Schubert MS**, Slavin RG. IgE immunoblot reactivity in allergic fungal sinusitis. *J Allergy Clin Immunol* 2005;115:s53.

Hutcheson PS, Oliver DA, **Schubert MS**, Slavin RG. The association of total IgE and specific IgE anti-staphylococcal enterotoxin with chronic hyperplastic rhinosinusitis. *J Allergy Clin Immunol* 2006;117:s71.

Hutcheson PS, **Schubert MS**, Slavin RG. Is allergic fungal sinusitis a distinct form of chronic rhinosinusitis? *J Allergy Clin Immunol* 2007;119:s162.

Campbell JM, Hutcheson PS, **Schubert MS**, Slavin RG. TARC levels in rhinosinusitis. *J Allergy Clin Immunol* 2008;121:s263.

Lee SH, **Schubert MS**, Conomos P. SAM syndrome (sinobronchial allergic mycosis). American College of Physicians, AZ Chapter Annual Meeting, 2009; Tucson, AZ.

Couch CE, **Schubert MS**. Functional antipolysaccharide immunoglobulin deficiency, recurrent pneumococcal sepsis, hypergammablobulinemic purpura, and Sjogren's syndrome. 16th Annual Scientific Session, Intermountain West Allergy Conference, July 2013, Park City, UT.

PUBLICATIONS:

Schubert MS. Lectin-induced modulation of cell-mediated cytotoxicity. Ph.D. Dissertation, Molecular Biology Program, College of Medicine, University of Arizona, 1979.

Schubert MS, Lucas DO. Anti-autologous lectin-dependent cell-mediated cytotoxicity; Evidence for pre-killer cells as effector cells. *Cell Immunol* 1981;60:11-23.

Schubert MS, Motil J, Cohen M, Radvany RM, Koep L, Vanderwerf BA. Appearance of IL2-R bearing cells as a prognosticator for immune-mediated events in the renal transplant patient. *Transplant Proc* 1986;18:740-742.

Radvany RM, **Schubert MS,** Kiamar M, Jarzabek V, Koehler-Corone K, Kuban D, Hecht F. Lymphocyte subpopulation profiles and mitogen kinetics in immunological deficiency testing. *J Clin Immunol* 1987;7:1-7.

Strober S, Dhillon MDS, **Schubert M,** Holm B, Engleman E, Benike C, Hoppe RT, Sibley R, Myburgh J, Collins G, Levin B. Specific immune tolerance to cadaveric renal allografts. *New Engl J Med* 1989;321:28-33.

Lane N, **Schubert M.** Allergens as etiologic in rheumatic disease. *JAMA* 1990;263:117.

Schubert MS, Moss RB. Selective polysaccharide antibody deficiency in familial DiGeorge syndrome. *Ann Allergy* 1992;69:231-238.

Schubert MS, Goetz DW. Evaluation and treatment of allergic fungal sinusitis. I. Demographics and diagnosis. *J Allergy Clin Immunol* 1998;102:387-394.

Schubert MS, Goetz DW. Evaluation and treatment of allergic fungal sinusitis. II. Treatment and follow-up. *J Allergy Clin Immunol* 1998;102:395-402.

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