## Curriculum Vitae

**NAME** Stephen C. Dreskin, M.D., Ph.D.

**PRESENT ADDRESS**

Division of Allergy and Clinical lmmunology

Department of Medicine

University of Colorado Denver

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**PRESENT POSITION**

Clinical Professor of Medicine

Division of Allergy and Clinical Immunology

Retired, Tenured Professor of Medicine and Immunology

University of Colorado Denver

School of Medicine

**DATE & PLACE** **OF BIRTH**

 August 11, 1949, Chicago, IL

**CITIZEN** USA

**EDUCATlON**

1/1971 B. A. (Biochemistry), University of Pennsylvania, Philadelphia, PA

5/1976 Ph.D. (Physiology), Emory University, Atlanta, GA

6/1977 M.D., Emory University, Atlanta, GA

**BOARD CERTIFICATION**

9/1980 Diplomate, Internal Medicine (#78684)

10/1983 Diplomate, Allergy and Immunology (#2344)

10/1990 Diplomate, Diagnostic Laboratory Immunology (#0112)

**MEDICAL LICENSURE**

Colorado #29367

**POST-GRADUATE TRAINING**

7/77 - 6/78 Internship (Internal Medicine), University of California-Davis, Sacramento Medical Center, Sacramento, CA

7/78 - 6/80 Residency (Internal Medicine), University of California-Davis, Sacramento, CA

7/81 - 6/85 Medical Staff Fellow, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD

**BRlEF CHRONOLOGY OF EMPLOYMENT**

7/77 - 6/80 House Staff, University of California-Davis, Sacramento Medical Center, Sacramento, CA

7/80 - 6/81 Emergency Medicine Practice, Kaiser Permanente Hospital, Sacramento, California and Western Emergency Physicians, Alameda, CA

7/81 - 6/85 Medical Staff Fellow, National lnstitute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD

7/85 - 6/88 Guest Researcher, Arthritis Branch, National Institute of Arthritis, Musculoskeletal, and Skin Diseases, National Institutes of Health, Bethesda, MD

7/88 - 12/88 Expert, Arthritis Branch, National Institute of Arthritis, Musculoskeletal, and Skin Diseases, National lnstitutes of Health, Bethesda, MD

1/89 - 6/95 Assistant Professor of Medicine and of Microbiology/Immunology, University of Colorado School of Medicine, Denver, CO

10/91-1997 Co-director, Diagnostic Immunology Laboratory, UCHSC, Denver, CO

7/95 - present Associate Professor of Medicine and Immunology, University of Colorado School of Medicine, Denver, CO

7/1/97 – 6/30/98 Acting Co-head, Division of Allergy and Clinical Immunology, University of Colorado School of Medicine, Denver, CO

1998 – 1999 Co-Director, Training Program in Allergy & Clinical Immunology at UCHSC and NJMRC, Denver, CO

7/95 - present Practice Director, University of Colorado Hospital Allergy, Asthma, and Immunology Practice

7/95-2016 Director, University of Colorado Hospital Skin Test Lab

2001-2014 Practice Director, UCDenver Rheumatology Practice

2004-2019 Professor of Medicine and Immunology, University of Colorado Denver, School of Medicine, Denver, CO

2004-2015 Assistant Medical Director of the Cord Blood Bank, University of Colorado Denver

2005- 2019 Consultant, Clinical Immunization and Safety Assessment (CISA) Network

2005- 2012 Co-director of the joint University of Colorado Denver and National Jewish Health Training Program (Program B) in Allergy and Clinical Immunology

2005- 2015 Medical Director and Clinical Consultant for the Clinical Immunology/Flow Cytometry laboratory of ClinImmune Labs

2016-2019 Director, Pillar for Allergy, Asthma, Rhinology and Inflammatory Diseases, Center for Lungs and Breathing, University of Colorado Denver School of Medicine and University of Colorado Hospital

2019-present Clinical Professor of Medicine, University of Colorado Denver, School of Medicine, Denver, CO

**HOSPITAL AFFILIATIONS**

1989 – 2019 Full time staff, University of Colorado Hospital

~1995 - 2003 Consulting staff, Denver Health and Hospitals

~1995 – 2003 Consulting staff, Denver VA Hospital

~1996 – present Consulting staff, National Jewish Health

2019-presentPart time staff, University of Colorado Hospital

**AWARDS AND SUPPORT**

1973 - 1975 Tull Fellowship, Emory University

1972, 1975-1977 Medical Scientist Training Support, Emory University

1985 - 1986 Partial Fellowship; Asthma and Allergy Foundation, Washington, D.C.

1985 - 1988 Arthritis Investigator Award, Arthritis Foundation, Atlanta, GA

1989 - 1991 Research Award, University of Colorado Cancer Center, Denver, CO

1989 Research Award, Biomedical Research Support, University of Colorado Health Sciences Center, Denver, CO

1989 - 1991 Research Award, Biomedical Research Support, University of Colorado Health Sciences Center, Denver, CO

1990 - 1991 Research Award, Rocky Mountain Chapter of the Arthritis Foundation, Denver, CO

1990 - 1995 Developing Investigator Award, The Burroughs Wellcome Fund and the American Academy of Allergy and Immunology, Milwaukee, WI

1991 - 1995 RO1 Award, National Institutes of Health, Bethesda, MD. FcRI-mediated activation of phospholipase C in membrane vesicles

1994-1998 Co-PI, RO1 Award, NIH, NIADDK, Bethesda, MD. Autoreactive T Cells Resistant to Tolerance in Diabetes. PI: Donald Bellgrau, PhD

1994-1995 Research Award, Nexagen Corporation, Boulder, CO

1995-1996 Research Award, Abbott Laboratories, Abbott Park, IL

1996-1997 Research Award, Rocky Mountain Chapter of Arthritis Foundation, Denver, CO. Expression and Activation of c-jun N-terminal Kinases in THP-1 cells

1998 Fellow, American Academy of Allergy, Asthma, and Immunology

1999-2000 Research Award, Analysis of samples from A single-center, randomized, double-blind, placebo-controlled trial of the effect of cetirizine on the late inflammatory response following nasal provocation testing with allergen extracts. Pfizer, Inc.

1999-2002 Research Award, Expression of COX-2 in chronic urticaria, Merck, Inc.

2000-2001 Research Award, Cancer League of Colorado: Inhibition of phosphorylation of c-jun by retinoic acid in human cervical carcinoma cells.

2000-2001 Jaffe Food Allergy Award (to Donald Dibbern, MD, Allergy Fellow in the Dreskin lab). Mast Cell Activation by Anti-peanut IgE: Role for Adjunct Immunologic Mechanisms.

2002-2003 Research Award, Immunex, Randomized, Double-Blind, Placebo-Controlled Pilot Study of Etancercept in Moderate to Severe Atopic Asthma.

2002-2003 Research Award, Rigel Pharmaceuticals, Analysis of samples from a Phase Ib Randomized, Double-Blind, Placebo-Controlled, Crossover, Single Dose Study of Mast Cell Inhibitor, R926112, in Volunteers with Asymptomatic Seasonal Allergic Rhinitis Subjected to a Nasal Allergen Challenge.

* 1. RO1, National Institute of Allergy and Infectious Diseases, NIH. Redefining the Major Peanut Allergens.

2003-2004 Research Award, Mitsubishi Pharma, Characterization of Sera from a Clinical Study: Increasing Dose Challenge with Recombinant Human Albumin (Step 1)

2005 Top Doc Denver, 5280 Magazine

2005 Fellow, American College of Allergy, Asthma, and Immunology

2006 Research Award Food Allergy and Anaphylaxis Network, Peanut Allergy: genetics and environment.

2006 Top Doc Denver, 5280 Magazine

2006-present Castle Connolly Medical Ltd. Top Doctor

2006 Bridge Award, Dean’s Office, University of Colorado School of Medicine

2006 Outstanding Teacher of the Year Award, Pediatric Allergy and Immunology Training Program, National Jewish Medical and Research Center

2007 Bridge Award, Allergy and Asthma Foundation of America

2007 Bridge Award, American Academy of Allergy, Asthma, and Immunology

2007-2012 RO1 5 year renewal, National Institute of Allergy and Infectious Diseases, NIH. Redefining the Major Peanut Allergens

2007 Invited Fellow of the American College of Physicians (ACP)

2009-2011 Administrative Supplement to RO1

2012-2013 ARTrust (Allergy, Asthma & Immunology Education and Research Organization, Inc). The role of long-lived plasma cells in Peanut Allergy

2012-2014 Investigator Initiated Grant from Genentech, Inc.: Effect of Xolair (omalizumab) on the Basophil Proteome in Patients with Chronic Idiopathic

2012 Bridge Award, Dean’s Office, University of Colorado School of Medicine

2012-2016 RO1, NIAID, NIH. Mapping the Critical Epitopes of Ara h 2 and Ara h 6

2012-2021 Top Doc Denver, 5280 Magazine for 2012-2021.

2018-2019 Research Award, The University of Colorado Anschutz Medical Campus Skin Diseases Research Center (UCAMC-SDRC) Committee.*Endotypes of Chronic Spontaneous Urticaria.*

2018-2020 R21, NIAID, NIH. Designing peptides to block Ara h 2 and Ara h 6 from binding to IgE. Role: PI.

2018-2020 R21, NIAID, NIH. Designing a mimotope-based vaccine for peanut allergy. Awarded to Dr. Xueni Chen. Role: Co-PI.

2020-2023 Investigator Initiated Award, Genentech, Identification of novel biomarkers to predict response to Xolair in chronic urticaria awarded to Dr. Jenny Stitt. Role: Co-PI.

2021-2025 RO1, Mechanisms of non-IgE mast cell degranulation in chronic idiopathic urticaria awarded to Dr. Jared Brown. Role: Collaborator.

2021-2023 RO3, NIAID, NIH. Characterizing and optimizing IgE and IgG4 microarray peptide assays for Ara h 2.

2021-2026 RO1, NIAID, NIH. Exploiting and enhancing IgE-binding epitopes of the 2S albumins of peanuts and tree nuts.

**INVITED TALKS, MODERATOR POSITIONS, AND OTHER PRESENTATIONS**

1989 Hoffman LaRoche: "IgE receptor-mediated phosphoinositide hydrolysis in ghosts derived from RBL2H3 cells"

1990 National Institute of Allergy and Infectious Diseases: "IgE receptor-mediated PI hydrolysis in plasma membrane vesicles"

1990 Medical Grand Rounds, UCHSC : Allergic Diseases: "Therapies for the Future"

1991 Lecturer 27th Annual Internal Medicine Program, Topic: "Chronic Fatigue Syndrome"

1991 - 1994 Advanced Research Seminar, Annual meetings of the American Academy of Allergy and Immunology, Topic: "Mechanisms of mast cell activation"

1993 Workshop, Annual meeting of the American College of Allergy and Immunology. "How mast cells work"

1993 Denver Immunology Research Symposium, "FcRI-mediated activation of phospholipase C in membrane vesicles"

1993 Lecturer, National Jewish Center Comprehensive Review in Adult and Pediatric Allergy/Immunology, Topic: "Mast cells/Basophils"

1993 - 1994 Co-moderator, Abstract Session, Annual meetings of the American Academy of Allergy and Immunology,: "Mast cells and Basophils"

1994 Lecture sponsored by Rorer Pharmaceuticals, Denver, CO., "Update on the treatment of Allergic Rhinitis"

1995 Medical Grand Rounds, UCHSC, "Allergic Reactions: New Markers, New Mediators, and New Therapies"

1995 Moderator and lecturer, National Jewish Hospital/University of Colorado Allergy and Immunology Board Review Course,.1995, "Signal Transduction" and "Mast Cells and Basophils"

1995 Lecturer, Chicago, Allergy and Immunology Board Review Course, March, 1995, "IgE-mediated Activation of Mast Cells"

1995 31th Annual Estes Park Program in Internal Medicine, "Allergy Desensitization - Who's a Candidate?"

1997 University HealthTalk radio show, "Allergies"

1997 Moderator and lecturer, National Jewish Hospital/University of Colorado Allergy and Immunology Board Review Course,1997, "Signal Transduction in the Immune System" and "Mast Cells and Basophils"

1998 University HealthTalk radio show, "Allergies"

1998 University Opinion community education series, "Allergies"

1998 Seminar at the AAAAI Annual Meeting, 1998, "Stimulation of Mast Cells by Bacterial Products"

1999 Medical Grand Rounds, UCHSC "New Possibilities for Treatment of Allergic Diseases"

1999 Ob-Gyn Grand Rounds UCHSC, "Assessment of Allergies and Immune Responses in Women"

1999 National Jewish Hospital/University of Colorado Allergy and Immunology Board Review Course. Course director, moderator and lecturer. "Intracellular Signaling in the Immune System" and "Mast Cells and Basophils"

1999 Medical Grand Rounds, Rose Medical Center. "Allergic Rhinitis"

1999 Colorado Society of Health-Systems Pharmacists, Annual Meeting, "NIH Guidelines for the Treatment of Asthma"

1999 Medical Grand Rounds, Wyoming Regional Hospital, Casper Wyoming. "NIH Guidelines for the Treatment of Asthma"

1999 Medical Grand Rounds, St. Presbyterian/St. Luke's Medical Center, "NIH Guidelines for the Treatment of Asthma"

2000 Co-Chair, Oral Abstract Presentations at the Am. Acad. Allergy, Asthma, and Immunology Annual Meeting, "IgE Responses"

2000 Medical Grand Rounds, Swedish Hospital, "Urticaria and Angioedema"

2000 Colorado Allergy Society, Asthma Allergy Ski Day, "Anaphylaxis"

2001 37th Annual Estes Park Program in Internal Medicine, "Urticaria and Angioedema"

2001 American College of Allergy, Asthma, and Immunology Recertification Course. "Immune Response" and "Mast Cells, Basophils, Eosinophils, Mediators of IgE Response"

2001 National Jewish/University of Colorado Focused Review in Allergy and Immunology, "Mast Cells and Basophils", "Neutrophils and Eosinophils", Urticaria and Angioedema"

2002 Moderator, Mast Cells and Mast Cell Diseases, Aspen Allergy Conference

2002 Workshop organizer, American Academy of Allergy and Clinical Immunology

1. Moderator, oral abstract session, American Academy of Allergy and Clinical Immunology
2. Invited moderator, oral abstract session, Mechanisms and Treatment of Urticaria, American Academy of Allergy and Clinical Immunology

2003 Invited seminar speaker, Evaluation and Management of Flushing Disorders, American Academy of Allergy and Clinical Immunology

2003 Invited moderator, evening symposium: Beta2 Agonist Controversy; Is it the Medicine or the Regimen?, American Academy of Allergy and Clinical Immunology

2003 Ad hoc reviewer, Immunological Methods Study Section, NIH.

2004 Invited lecturer on *Flushing Disorders including Mastocytosis* for Current Views in Allergy and Immunology to be published in the winter of 2004. This is a nationally distributed audiotape lecture series.

2004 UCHSC Medical Grand Rounds. “Peanut Allergy”

2004 Invited moderator “Drug Eruptions and the Skin” American Academy of Allergy and Clinical Immunology Annual Meeting (2004)

2004 Invited moderator “An Approach to the Evaluation and Treatment of the Angioedemas” American Academy of Allergy and Clinical Immunology Annual Meeting (2004)

2004-2007 Seminar leader, “Scratching the Surface on Dx and Rx of Pruritis” American Academy of Allergy and Clinical Immunology Annual Meetings

1. UCHSC Department of Dermatology: interdisciplinary rounds. “Chronic Urticaria”.

2005 Speaker, Florida State University. “Redefining the Major Peanut Allergens”

2005 Moderator “What makes Foods Allergenic?” American Academy of Allergy and Clinical Immunology Annual Meeting (2005)

2005 Invited speaker, International Meeting of Asthma, Allergy, and Immunology in Buenos Aires, Argentina. “Chronic Urticaria” and “Cutaneous Vasculitis”, May, 2005

2006 Speaker: “Difficult cases in chronic urticaria, bring your own patient”. American Academy of Allergy and Clinical Immunology Annual Meeting (2006)

2006 Moderator and speaker: “Meeting summary” American Academy of Allergy and Clinical Immunology Annual Meeting (2006)

2006 Invited editorial: “Do HLA genes play a role in the genetics of peanut allergy?”, Annals of Allergy, Asthma, and Immunology, 96:766-8, 2006.

2006-2007 Invited speaker, 2006 and 2007 AAAAI/ACAAI Certification/Maintenance of Certification Board Review Course, “IgE Function and Regulation”

2007 Moderator “Allergic and Immunologic Skin Diseases” American Academy of Allergy and Clinical Immunology Annual Meeting (2007)

2007 Moderator “Chronic Urticaria: When Antihistamines Fail” American Academy of Allergy and Clinical Immunology Annual Meeting (2007)

2008 Moderator “ Pro/Con Debate: An Extensive Laboratory Evaluation is Essential in the Diagnosis and Management of Chronic Urticaria ”

2008 Member “Industry Relations Task Force” AAAAI

2008 Speaker, Rational Use of Allergy Testing and Immunotherapy, Internal Medicine Annual Review Course

2009 Visiting Professor; Diploma Program in Allergy & Asthma. Christian Medical College, Vellore India. Eight lectures over 3 days. Topics: Food allergy, Drug allergy, Urticaria, Angioedema, Atopic Dermatitis, Steroids, Allergen Immunotherapy

2009 Speaker: India Allergy Society, Bangalore India. “The Mystery of Food Allergy”

2009 Speaker, AAAAI Annual Meeting, “Diagnostic Assays in Chronic Idiopathic Urticaria - what’s new and What Does it Mean?”

2009 Moderator, AAAAI Annual Meeting, “Genetic Responses to New Drugs: Pharmacogenomics in Drug Discovery and Adverse Drug Reactions”

2009 Moderator, AAAAI Annual Meeting, FADDA Interest Section Forum

2009 Speaker, AAAAI Annual Meeting, “Tried, True and New Treatments of Chronic Urticaria”

2009 Speaker, National Institutes of Allergy and Infectious Diseases Grand Rounds “Redefining the Major Peanut Allergens”

2010 Named Lectureship: Richard Farr Lectureship Award, Aspen Allergy Conference, 2010. “Adverse Reactions to Vaccines including Anaphylaxis”

2011 Medical Grand Rounds @ UCD and @ Rose Hospital: “The Conundrum of Food Allergy”

2011 Invited session leader: National MD PhD Conference, Keystone, CO “Negotiating your first academic position”

2012 Medical Grand Rounds @ National Jewish Health: “Redefining the Major Peanut Allergens”

2013 Invited workshop speaker, American College of Allergy, Asthma and Immunology. “Chronic Urticaria”

2014 Invited workshop speaker, Annual Meeting, American Academy of Dermatology. “Pathophysiology of Chronic Urticaria”, 2014.

2014 Interview KEZW (1430): “seasonal allergies”

2014 Invited speaker, ICAAICON 2014. “Chronic Urticaria”.

2014 Invited workshop speaker, American College of Allergy, Asthma and Immunology. “Walking through the parameters of chronic urticaria”

2014 Pediatric Grand Rounds; University of South Carolina, Greenville, School of Medicine. “The Food Allergy Conundrum”

2014 Inaugural E Arthur Dreskin Memorial Lectureship; University of South Carolina, Greenville, School of Medicine. “Peanut Allergy”

2015 Named Lectureship: American Academy of Allergy, Asthma and Immunology, “Chronic Spontaneous Urticaria: variable presentations and trajectories”. 2015 annual meeting

2015 Keynote speaker. “Update on Chronic Urticaria” and “*In vitro* testing for food allergy”. Clinical Allergy for the Practicing Physician. A CME activity sponsored by Washington University, St. Louis, MO

2015 Betty B. Wray MD Visiting Professor, Medical College of Georgia. Pediatrics Grand Rounds: “In vitro testing to food allergens” and Internal Medicine Noon Conference: “Chronic Spontaneous Urticaria”

2016 University of Colorado Denver School of Medicine Medicine Grand Rounds, “What’s New and Cool in Allergy and Clinical Immunology”

2016 Visiting Professor, Northwestern University School of Medicine. “Experimental approaches that may lead to novel treatments of peanut (PN) allergy”

2016 Invited lecture, Wisconsin Allergy Society. “Beyond “components” in food allergy. The use of mimotopes and epitopes to understand peanut allergy and cross-reactivity with tree nuts” and “Chronic Urticaria: varied presentations and clinical trajectories”

2020 Invited lecture. “Urticaria and Angioedema”. National Vacine Injury Compensation Program Grand Rounds.

**TEACHING RESPONSIBILITIES**

1989 - present Preceptor: Students, Residents, and Fellows in the UCHSC Allergy Clinic

1989 - present Preceptor: Students and Fellows in the Research Laboratory

1989 - present Lecturer: Department of Medicine, Noon Lecture series (most frequent topic: Asthma and Allergies).

1989 - present Lecturer, National Jewish Health, Combined Allergy Rounds. Topics include “Mast Cells and Basophils”, and “Chronic Urticaria”.

1990 - 1998 Lecturer, Internal Medicine Board review session, UCHSC. Topic: "Allergy and Immunology"

1991 - 2002 Attending, Internal Medicine Wards, UCHSC

1991 - present Instruct fellows in allergy and clinical immunology; reading of serum protein electrophoresis and immunofixation electrophoresis samples.

1992 Presenter, Clinicopathologic Correlation Conference, UCHC. Topic: "Common Variable Hypogammaglobulinemia"

1992 Lecturer, Graduate School course in Immunology. Topic: "Immediate Hypersensitivity"

1993 Lecturer, Ophthalmology Board review session: "Basic Immunology"

1993 Advisor, Thesis committee for Dylan Daniels, Department of Immunology.

1993 - 1998 Lecturer, Dental Immunology (DSBS 5512). Topics: Type II immunopathology, Immunodiagnosis

1994 Thesis committee for Chris Pleiman, Department of Immunology.

1995 Committee for Chia-Chi Ku's Comprehensive Examination in Immunology

1995 Morbidity and Mortality Rounds, "Latex Allergy"

1995 - present Colorado Allergy Rounds/Combined Allergy Rounds for Fellows, Housestaff, and Students. One to two lectures per year. "Mast Cell Biology"; "Urticaria and Angioedema"; "Cells of the Immune System"; "Allergic Rhinitis"

1995 – present Lecturer, noon conference at UCH and DH for House staff and students, “Allergies and Asthma”

1996 Morbidity and Mortality Rounds, "Hypogammaglobulinemia"

1996 Thesis committee for Dana Fong, Department of Immunology.

1996 - present Course director, elective for medical students in outpatient allergy and immunology (Medicine 8006).

1996 - present Course director, elective rotation for residents in outpatient allergy and pulmonary medicine

1996 – present Organizer, Allergy/Immunology Journal Club for Fellows in Allergy and Clinical Immunology

1997 Lecturer, Immunology 7664 (Immune mechanisms). "Cells of the innate immune system: mast cells, basophils, eosinophils

1998 Morbidity and Mortality Rounds, "Relapse of Wegener's Granulomatosis"

1. Lecturer, Immunology 7664 (Immune mechanisms). "Allergy, Anaphylaxis and IgE-Mediated Immune Response"

2000 Morbidity and Mortality Rounds, “Urticaria and Angioedema”

1998 - 1999 Thesis committee, Karen Makar, Department of Immunology

2000 - 2002 Thesis committee, Peter Hoffman, Department of Immunology

2000 – present Lecturer, course for Rheumatology fellows, "Mast cells and Eosinophils"

2002 Morbidity and Mortality Rounds, “Common Variable Immunodeficiency”

2003 CPC, “Urticarial Vasculitis”

1. Lecturer, Internal Medicine Rounds, “Allergen Immunotherapy”
	1. Lecturer, Otolaryngology Rounds, “Overview of Immunology”

2003-2004 Presenter, Clinical skills for Second Year Medical Students: Head and Neck Exam and Oral Presentations

2006 - present Lecturer, Orientation for Allergy Fellows: “Approach to the Patient with Urticaria”

2006 Lecture to graduate students, Graduate School Course, IMMU 7603: Special Topics in Clinical Immunology: “Asthma”

2006 Morbidity and Mortality Rounds, "Two Patients with Recurrent Anaphylaxis"

2005-2006 Group leader, Foundations of Doctoring: “Oral Presentations”

2007 Graduate School Examining Committee Member, Bristol Sorensen, Department of Integrative Physiology, Univ. Colorado, Boulder. Immunology work performed with James Jones and Patsy Giclas at NJMRC.

2007 Participant, Internal Medicine “Job Fair” for 2nd year medical students

2007 Clinical mentor for medical students: Beth (MSIII), Neil Phippen (MSIII), Michael Stucky (MSI); Sam Pan (MSIII); Dan Kao (MSIII), Toby Steel(MSIII), Martin Wesley (MSIII).

2007 Teleconference on Asthma. Dhanavanthri Allergy & Asthma educational program (DAAEP); University of Chattisgarh, Delhi, a recognized State University in the state of Chattisgarh, India

2007 Thesis committee, Bristol L.Sorensen, Department of Integrative Physiology, University of Colorado, Boulder

2008 Lecture to Dermatology: Urticaria and Angioedema

2008-2016 Preceptor in Allergy/Immunology for 3rd year Medical Students on Family Medicine Rotation

2007-2016 Facilitator, Oral Presentations for 2nd year medical students

2011-present Facilitator and mentor, Mentored Scholarly Activity (MSA) Program of the School of Medicine

**FELLOWS AND STUDENTS IN ALLERGY AND CLINICAL IMMUNOLOGY PRECEPTED IN THE LABORATORY**

1990-1991 Donald E. Kuhn, Ph.D. Postdoctoral Fellow

1990-1992 Jahangeer Dogar, M.D., Fellow in Allergy and Immunology

1992 Elizabeth Knight, Graduate Student rotation

1993 Ahmed Serag, Summer college student

1992-1993 Norwood Redhead, M.D., Fellow in Allergy and Immunology

1994 Elizabeth Walsh, Student Cancer Fellowship

1995 Meghan Treitz, Student Cancer Fellowship

1999-2000 Michael Mates, MD, Fellow in Allergy and Immunology

1999 Kelly Marcelle, High School Student

2000-2001 Donald A. Dibbern, Jr. M.D., Fellow in Allergy and Immunology

2001-2002 G. William Palmer, M.D., Fellow in Allergy and Immunology

1. Molly Weiner, Student Cancer Fellowship

2002 YooJung Choi, High School Student

2003-2004 Brenda Guyer, M.D. and Miriam Anand, M.D., Fellows in Allergy and Clinical Immunology

2003-2005 Robert McDermott, M.D., Fellow in Allergy and Clinical Immunology

2003-2004 Anil Nanda, M.D., Fellow in Allergy and Clinical Immunology

2004-2006 Rabab El-Mezayen M.D, Ph.D., research Postdoctoral student

2004 Sonja Raj, M.D., Resident in Internal Medicine

2004-2005 Karen Yasnowsky, M.D., Fellow in Allergy and Clinical Immunology

2004-2005 Anne Lent, M.D., Fellow in Allergy and Clinical Immunology

2005 Dianna Bastian, M.D. Resident in Internal Medicine, Mayo Clinic, Scottsdale, AZ

2005-2007 Mentor for residents in Internal Medicine: Ojas Patel, M.D., Shahzad Mustafa, M.D., and Tammy Brionez, M.D.

2006-2008 Mentor for residents in Internal Medicine: Ojas Patel, M.D., and Andrew Ayars, M.D

2007-2009 Shahzad Mustafa, M.D., Fellow in Allergy and Clinical Immunology

2008-2009 Sandy Durrani, M.D., Post Doc

2008-2010 Ojas Patel, M.D., Fellow in Allergy and Clinical Immunology

2009-2012 Kanao Otsu, M.D. M.P.H., Fellow in Allergy and Clinical Immunology

2010-2012 Yonghua Zhuang, M.D., Ph.D. Postdoctoral Fellow

2010-2015 Daphne.Moutsoglou, student (M.D., Ph.D.) in Immunology

2010-2011 Pitud Rangsithienchai, M.D. Fellow in Allergy and Clinical Immunology

2012-2013 Jenny Stitt, M.D., Fellow in Allergy and Clinical Immunology

2013-2014 Matthew Germinaro, M.D., Fellow in Allergy and Clinical Immunology

2013-2015 Anjeli Kalra, M.D., Resident, Internal Medicine

2014-2015 Vivek Agarwal, M.D., Fellow in Allergy and Clinical Immunology

2014-2015 Caitlin McNulty, M.D., Resident, Internal Medicine

2015-2016 Nathalie Nguyen, M.D., Fellow in Pediatric Gastroenterology. Serve on Dr. Nguyen’s Scholarship Oversight Committee

2015 Natalie Gao, Undergraduate student

2016-2017 Anjeli Kalra, M.D., Fellow, Allergy and Immunology

2017-2018 Amar Dixit, M.D., Fellow, Allergy and Immunology

2018-2019 Meaghan Garcia, M.D., Fellow, Allergy and Immunology

2019 Vidhya Pathy, High School Student

2019 Dane Rana, Medical (DO) Student

2019-2020 Ekta Kakkar,M.D., Fellow, Allergy and Immunology

2020-2021 Nicole Canon,M.D., Fellow, Allergy and Immunology

**EDITORIAL WORK**

2000-2010 Medical Editor, Section on Allergy and Clinical Immunology, eMedicine Textbook of Internal Medicine

2004 Invited editor, Allergy Clinics of North America, volume on *Urticaria* (2004)

2005 Medical Editor, Lay publications in Allergy and Immunology, eMedicine web site

2014 Chair of the Practice Diagnostics and Therapeutics Committee of the American Academy of Allergy, Asthma and Immunology (AAAAI). Editorial oversight of working group publications for the AAAAI.

2010-Present Primary review panel for J Allergy and Clinical Immunology

2020 Review Editor. Frontiers in Allergy

**CLINICAL RESEARCH EXPERIENCE**

1981-1983 Metabolic studies of 125-I labeled IgE in normal volunteers and in patients with the Hyper-IgE and recurrent infection syndrome.

1999-2005 Several Nasal Challenge studies in collaboration with Dr. Harold Nelson (NJMRC).

2003-2003 Pilot study: “Randomized, Double-Blind, Placebo-Controlled Pilot Study of Etanercept in Moderate to Severe Atopic Asthma” in collaboration with Dr. Kathrine Hobbs.

2003-2006 Expression of COX2 in Chronic Idiopathic Urticaria

2003-2005 Development of an in vitro assay for anti-FcRI autoantibodies in Chronic Urticaria

2002-2012 Redefining the Major Peanut Allergens

2004-2008 Genetics of Peanut Allergy

2011-present Molecular mechanisms in chronic urticaria

2012-present Chronic Urticaria, Angioedema or Anaphylaxis: A Prospective Study Of Standardized Care Outcomes

2012-present Effect of Xolair (omalizumab) on the Basophil Proteome in Patients with Chronic Idiopathic Urticaria

2013-present Blood Samples for the Study of Peanut, Tree Nut and Other Food Allergies

**MEDICAL/LEGAL/CONSULTATION EXPERIENCE**

Reviews of medical records for evaluation of medical necessity.

Medical/legal: 0-2 cases/year: Expert opinions, independent medical exams, and depositions in cases of allergic drug reactions, effects of live viral vaccine on the immune system, allergic reactions to latex, anaphylaxis, evaluation and critique of unproven practices in allergy and immunology, medical consequences of exposure to molds, allergic reactions to vaccines, and other issues.

Other: Consultations regarding trends in the pharmaceutical industry. Participate in panels sponsored by Network of Health Care Providers and The Council of Advisors, Gerson Lehrman Group (Elected to GLG Scholar, top 20% of consultants in 2006). Consultant, Clinical Immunization and Safety Assessment (CISA) Network. Consultant (2006-2012), Johns Hopkins Study of allergic reactions to gelatin-containing vaccines (2009-2011). Member, medical expert panel of the Vaccine Injury Compensation Program, Health Resources and Services Administration (HRSA) beginning (2009-current), External Member Data Safety Monitoring Committee for Pfizer, Janssen, and Johnson & Johnson.

**SOCIETIES**

 American Academy of Allergy, Asthma, and Immunology

 American College of Allergy, Asthma, and Immunology

American Association for the Advancement of Science

American Association of Immunologists

Clinical Immunology Society

**UNIVERSITY COMMITTEES**

1990 Ad-hoc committee regarding computer-based information access and flow

1992 - 1999Member and (for two years)chairman, Library Advisory Committee

1992 - 1998 Medical Scientist Training Program Advisory Committee and Clinical Transition Committee

1994 - 1996 National Jewish/University Hospital Task Force: Member "Adult Outpatient Task Force" and "General Patient-Related Issues"

1994 - present Chair and sole member, committee to manage Clinical Faculty for the Division of Allergy and Clinical Immunology

1995- present Clinical Practice Committee, now the Practice Operations Management Committee (a subcommittee of the Enterprise Steering Committee)

1996 Search committee for Chair of Medicine at National Jewish

1996 Dean's research facilities task force

1996 Pharmacy and Therapeutics Ad hoc committee for evaluation of bronchdilators

1996-1998 Practice Management Committee of the Department of Medicine

1996-2002 Quality assurance peer review for the Wardenburg Health Center, University of Colorado at Boulder.

1997 - 2003 Organizing committee, National Jewish Medical and Research Center/University of Colorado Health Sciences Center biannual Comprehensive Review in Adult and Pediatric Allergy and Immunology

1998-present Chair, Combined NJC and UCHSC organizing committee for Combined Allergy Rounds

1998-2000 Pharmacy and Therapeutics committee, biotechnology subcommittee

2000-present Intern Selection Committee, UCHSC

2005-2006 Pharmacy and Therapeutics working group on IVIg

2007-2012 TouchWorks (EMR) Users Group

2007-2013 Department of Medicine representative to the Contracts Committee of University Physician’s Inc.

2007-2010 Member of the Advisory Board for The Denver Quarterly Immunology Symposium.

2010-present Pharmacy and Therapeutics working group on desensitization to antibiotics

2013 Ad Hoc committee to explore incentives for clinical work by non-procedural medical subspecialties

2010-present Pharmacy working group on management of penicillin allergy in the hospital

2014 Department of Medicine: Non-procedure specialty clinics

2015 Department of Medicine: Payor Task Force Committee

2016 Post Tenure Review Committee

2018 Incentives for research intensive faculty committee

2018 DOM Finance Workshop

**UNIVERSITY ADMINISTRATIVE WORK**

1995 - 2016 Organize and supervise resident rotation in Allergy and Immunology (University of Colorado Hospital and National Jewish Medical and Research Center)

1995 - 2016 Organize and supervise fellows rotating on the Allergy and Immunology consultation service (University of Colorado Hospital and National Jewish Medical and Research Center)

1995 – 2016 Course Director for the medical student rotation in Allergy and Immunology (University of Colorado Hospital and National Jewish Medical and Research Center)

1995 - 2019 Supervise Clinical Faculty in Allergy and Immunology

**UNIVERSITY OF COLORADO HOSPITAL ADMINISTRATIVE WORK**

1995-2016 Director of the University of Colorado Hospital Allergy and Clinical Immunology Skin Test Laboratory

1995- 2019 Medical Director of the University of Colorado Hospital Allergy and Clinical Immunology Practice

2016 - 2019 Director Pillar for Allergy, Asthma, Rhinology and Inflammatory conditions, Center for Lungs and Breathing

**NON-UNIVERSITY COMMITTEES**

1991 - 1992 Awards committee, Rocky Mountain Chapter of the Arthritis Foundation

1993 - 1995 Chairman, Committee on Cells, American Academy of Allergy and Immunology (AAAAI)

1994Organizer, Annual IgE Dinner/symposium at FASEB

1993 - 1996 Allergy and Asthma Associates of Colorado, Committee on Practice Standards

1998-2004 Abstract review subcommittee, AAAAI

2001-present Planning Committee for the Aspen Allergy Conference

2001-2004 Executive board and Vice President, Colorado Allergy Society

2003-2004 Workshops representative, Dermatologic and Ocular Diseases Committee, AAAAI

2003-2006 Vice Chair and then Chair, Urticaria and Angioedema Committee, AAAAI

2004-present Member, Program Committee, AAAAI

2004-present Member, Adverse Reactions to Foods Committee, AAAAI

2004-2005 Member, Credentials Committee, AAAAI

2004-present Member of the Board, Dhanavanthri Allergy & Asthma educational program (DAAEP); University of Chattisgarh, Delhi, a recognized State University in the state of Chattisgarh, India.

2004-2005 Vice Chair, workshops committee of the American Academy of Allergy, Asthma and Clinical Immunology

2004-2009 Member, Planning Committee for the Annual Meeting of the American Academy of Allergy, Asthma and Clinical Immunology

2005-2006 Vice Chair, Food Allergy, Anaphylaxis, Dermatologic Diseases (FADDA) Interest Section, American Academy of Allergy, Asthma and Clinical Immunology

2006-2009 Chair, Food Allergy, Anaphylaxis, Dermatologic Diseases (FADDA) Interest Section, American Academy of Allergy, Asthma and Clinical Immunology

2005 Reviewer, AAAAI interest section grants

2007-2009 Chair, Interest Section Coordinating Committee (Umbrella group for the AAAAI interest sections)

2010-2016 Member, Board of Directors, American Board of Allergy and Immunology

 Chair, ABAI Ethics and Professionalism Committee 2012-2014

 Co-Chair, ABAI Exam Committee, 2012-2013

Chair, ABAI Exam Committee, 2013-2014

Secretary, ABAI, 2013-2014

2010-present Member, Practice Parameters Oversight Committee, American Academy of Allergy, Asthma and Immunology

2013-2015 Vice Chair and then Chair of the Plenary Subcommittee of the Annual Meeting Planning Committee of the American Academy of Allergy, Asthma and Immunology

2014-2016 Chair, Practice Diagnostics and Therapeutics Committee, of the American Academy of Allergy, Asthma and Immunology

**STUDY SECTION SERVICE**

2010 National Institute of Allergy and Infectious Diseases: PO1 applications

2015 National Institute of Allergy and Infectious Diseases: PO1 applications

2015 Department of Defense (Department of Defense, U.S. Army Medical Research and Materiel Command, Congressionally Directed Medical Research Programs (CDMRP))

2016 Small Business Innovative Immunology Research (IRG Special Emphasis Panel ZRG1 IMM-S (10) B, 2016))

2016 Immunology IRG Special Emphasis Panel (IMM-S (90) S

2016 Promotion Committee, Harvard University, School of Medicine. Ad hoc.

2017 R10 Innovative Immunology Study Section

2018 Small Business Innovative Immunology Research ZRG1 IMM (R10).

2019 ZRG1 IMM T57 R Study Section. Hypersensitivity, Allergies and Mucosal Inflammation

2020 Special Emphasis Panel. Extramural Loan Repayment Program for Pediatric Research (LRP-PR); NOT-OD-19-118, Extramural Loan Repayment Program for Health Disparities (LRP-HDR) entitled NIAID Loan Repayment Program Review.

2020 ZRG1 IMM T57 R Study Section. Hypersensitivity, Allergies and Mucosal Inflammation

2021 Small Business Innovative Immunology Research ZRG1 IMM (R10)

2021 Early phase Clinical Trials of Natural Products ZAT1 SH (01)

**COMMUNITY SERVICE**

1996-1998 President, Temple Micah, a small reform synagogue

1997 Relevancy Review session for the American Board of Allergy and Immunology

2001-2005 9 Health Fair volunteer

2001 Ask the Doctor call-in night for UPI

1. Relevancy Review session for the American Board of Allergy and Immunology
	1. Treasurer, Temple Micah, a small reform synagogue

2009-2011 Advisory Board, Holocaust in Contemporary Bioethics Program

2018 Participant, Continuing Board Certification meeting; Vision for the Future, May 30, 2018

**REVIEW AND REFEREE WORK:**

1990-present **Reviewer for Journals:** Allergy, Allergy and Asthma Proceedings, American Journal of Rhinology and Allergy, Annals of Allergy, Asthma, and Clinical Immunology, Archives of Allergy, Biochem. Biophys. Acta –Proteins and Proteomics, Biochemical Pharmacology, Blood, Clinical Experimental Allergy, Cellular and Molecular Immunology, Clinical Immunology, Clinical and Experimental Dermatology, Experimental Biology and Medicine, Expert Review in Immunology, Human Immunology, Immunologic Research, International Archives of Allergy and Immunology, Journal of Ag & Food Chem., J. Clinical Immunology, Journal of Immunology, Journal of Allergy and Clinical Immunology (>100 reviews), J. Inv. Dermatology Blood, Journal of Immunology Research, J of the World Allergy Organization, Proteomics, Toxicology and Applied Pharmacology, New York State Journal of Medicine.

**Reviewer of Grant proposals:** Awards committee, Rocky Mountain Chapter of the Arthritis Foundation, US Civilian Research and Development Foundation (CRDF, Arlington, VA), Technology Foundation STW (a Dutch funding agency for academic research in the field of applied sciences), National Institute of Allergy and Infectious Diseases (PO1 applications, 2010 and 2015; Small Business Innovative Immunology Research (IRG Special Emphasis Panel ZRG1 IMM-S (10) B, 2016)) Department of Defense (Department of Defense, U.S. Army Medical Research and Materiel Command, Congressionally Directed Medical Research Programs (CDMRP) 2015), The Medical Research Council (United Kingdom), Small Business Innovative Immunology panel for the NIH (ZRG1-IMM-R (10)) (2017, 2018 and 2019).

**RESEARCH INTERESTS**

IgE/allergen interactions in food allergy

Chronic Urticaria

**CLINICAL INTERESTS**

Functional interactions of IgE and allergen

Clinical syndromes related to activation of mast cells, urticaria, angioedema, mastocytosis, mast cell activation

Allergic and Immunologic Reactions to Vaccines

Cord blood Transplantation

Asthma

Food Allergies

Mold Allergies

**PUBLICATIONS**

For metrics and citation counts:

https://scholar.google.com/citations?view\_op=list\_works&hl=en&user=ZC4z\_csAAAAJ

**RESEARCH PUBLlCATIONS**

1. Gerber BR, **Dreskin SC**: Research in macromolecular chemistry: A new approach to an undergraduate biochemistry laboratory. J. Chem. Educ. 48:464-467, 1971.
2. **Dreskin SC**, Mayall BH: Deoxyribonucleic acid cytophotometry of stained human leukocytes. III. Thermal denaturation of chromatin. J. Histochem. Cytochem. 22:120-126, 1974.
3. **Dreskin SC**, Kostyo JL: Effects of acute growth hormone treatment on rat skeletal muscle ribosomes. Hormone & Metabolic Res. 12:60-66, 1980.
4. **Dreskin SC**, Iberti TJ, Watson-Williams EJ: Pseudoleukemia due to infection. J. Med. 14:147-155, 1983.
5. **Dreskin SC**, Goldsmith PK, Gallin JI: Anti-*Staphylococcus aureus* immunoglobulins in the hyperimmunoglobulin E and recurrent infection syndrome. J. Clin. Invest. 75:26-34, 1985.
6. **Dreskin SC**, Kaliner MA, Gallin JI: Elevated urinary histamine in the hyperimmunoglobulin E and recurrent infection syndrome: Association with dermatitis and not with infection. J. Allergy Clin. Immunol. 79:515-522, 1987.
7. **Dreskin SC**, Goldsmith PK, Strober W, Zech LA, Gallin JI: The metabolism of IgE in patients with markedly elevated serum IgE levels. J. Clin. Invest. 79:1764-1772, 1987.
8. **Dreskin SC**, Gallin JI: Evolution of the hyperimmunoglobulin E syndrome in a young girl. J. Allergy Clin. Immunol. 80:746-751, 1987.
9. **Dreskin SC**, Metzger H: The high affinity receptor for IgE: Prospects for the therapy of immediate hypersensitivity reactions. JAMA 260:1265-1268, 1988.
10. Hohman RJ, **Dreskin SC**. "Measurement of degranulation of mast cells" in Current Protocols in Immunology, Supplement 8, Unit 7.26, 1994.
11. Metzger H, Kinet J-P, Blank U, **Dreskin SC**, Miller L: The receptor with high affinity for IgE: the next steps. Allergologie, Jahrgang 12, KongreBausgabe, Sept. 1989, S. 120-123.
12. **Dreskin SC**, Pribluda VS, Metzger H: IgE-receptor mediated hydrolysis of phosphoinositides in cytoplasts derived from rat basophilic leukemia cells. J. Immunol. 142:4407-4415, 1989.
13. Kirshenbaum AS, Goff JP, **Dreskin SC**, Irani A-M, Schwartz LB, Metcalfe DD: Interleukin 3-dependent growth of basophil-like cells and mast-like cells from human bone marrow. J. Immunol. 142:2424-2429, 1989.
14. Kirshenbaum AS, **Dreskin SC**, Metcalfe DD: A staphylococcal protein A rosetting assay for the demonstration of high affinity IgE receptors on IL-3-dependent human basophil-like cells grown in mixed cell cultures. J. Immunol. Methods 123: 55-62, 1989.
15. **Dreskin SC**, Metzger H: FceRI-mediated hydrolysis of phosphoinositides in ghosts derived from rat basophilic leukemia cells. J. Immunology 146: 3102-3109, 1991.
16. Kuhn DE and **Dreskin SC**: FceRI-mediated hydrolysis of phosphoinositides in permeable membrane vesicles. J. Immunol. Methods 157: 81-89, 1993.
17. Dogar JH, Nemeth GG, Durdik JM, **Dreskin SC**: FceRI-mediated expression of mRNA for c fos in rat basophilic leukemia cells does not require ongoing aggregation of the receptor. Cellular Signalling 5:605-613, 1993.
18. **Dreskin SC**, Kuhn DE, Huang Y: Phosphoenolpyruvate and creatine phosphate augment ATP and magnesium-dependent, FceRI-mediated activation of phospholipase C in RBL cell ghosts. J. Immunology 151: 3199-3205, 1993.
19. **Dreskin SC**: A method to trap IgG antibodies within functional membrane vesicles. J. Immunological Methods 179:87-93, 1995.
20. **Dreskin SC**: ATP-dependent activation of phospholipase C by antigen, NECA, Na3VO4, and GTP-g-S in permeabilized RBL cell ghosts: Differential augmentation by ATP, phosphoenolpyruvate and phosphocreatine. Molec. and Cell. Biochemistry 146:165-170, 1995.
21. Wiegand TW, Williams PB, **Dreskin SC**, Jouvin M-H, Kinet J-P, Tasset D: High-affinity oligonucleotide ligands to human IgE inhibit binding to FceRI. J. Immunol. 157:221-230, 1996.
22. Westcott JY, Wenzel SE, **Dreskin SC**: Arachidonate-induced eicosanoid synthesis in RBL-2H3 cells: Stimulation with antigen or A23187 induces prolonged activation of 5-lipoxygenase. Biochimica et Biophysica Acta 1303:74-81, 1996.
23. Mann R, Badesch D, Zamora M, **Dreskin SC**: Desensitization to Trimethoprim-sulfamethoxazole following lung transplantation. CHEST 111:1147, 1997.
24. **Dreskin SC** and Abraham SN: Production of TNF-a by murine bone marrow derived mast cells activated by the bacterial fimbrial protein, FimH. Clinical Immunology 90:420-424, 1999.
25. Moore JK, Gold DP, **Dreskin SC**, Lernmark A, Bellgrau D. A diabetogenic gene prevents T cells from receiving co-stimulatory signals. Cellular Immunology. 194:90-7, 1999.
26. **Dreskin SC**. A Prescription Drug Packaged in China and Sold as an Ethnic Remedy. JAMA, 283: 2393-2393, 2000.
27. Widman C, Sather, S, Oyer, R, Johnson GL, **Dreskin SC**: Functional differences between MEKK2 and MEKK3 reside in the kinase domain. Biochem Biophys. Acta, 1547: 167-173, 2001.
28. **Dreskin, SC**, Thomas, GW, Dale, SN, Heasley, LE: Isoforms of Jun Kinase are differentially expressed and activated in THP-1 cells. J. Immunology, 166:5646-5653, 2001.
29. Dibbern DA, Claman HN, **Dreskin SC**: Dyspnea and pulmonary infiltration in a 53 year old woman with common variable immunodeficiency. Annals of Allergy, Asthma, and Immunology, Annals of Allergy, Asthma, and Immunology, 87: 18-21, 2001.
30. **Dreskin SC**, Dale SN, Foster SM, Martin D, Buchmeier A, Nelson HS. Measurement of changes in mRNA for IL-5 in non-invasive scrapings of nasal epithelium taken from patients undergoing nasal allergen challenge. Journal of Immunological Methods, 268(2):189-195, 2002.
31. Dibbern DA, Palmer GW, Bock SA, **Dreskin SC**. RBL Cells Expressing Human FceRI are a Sensitive Tool for Exploring IgE-Allergen Interactions: studies with sera from peanut-sensitive patients. Journal of Immunological Methods, 274:37-45, 2003.
32. Anand M, Nelson, HS, and **Dreskin SC.** A Possible Role for COX-2 Inhibitors in the Treatment of Chronic Urticaria, J. Allergy and Clin. Immunology, 111: 1133-36, 2003.
33. Ewbank PA, Murray J, Mitchell K, Curran-Everett D, **Dreskin S**, and Nelson HS. A Double-Blind, Placebo-Controlled Immunotherapy Dose-Response Study with Standardized Cat Extract. Journal of Allergy and Clinical Immunology, 111: 155-161, 2003.
34. Nanda, A, O’Connor M, Wheat W Routes J, Anand M, Fifield D, **Dreskin S**, Rosenwasser L, Nelson H Immunological Response to Administration of Standardized Cat Allergen Extract at Differing Doses. Journal of Allergy and Clinical Immunology 114:1339-1344, 2004
35. Palmer GW, Dibbern DA, Jr., Burks AW, Bannon GA, Bock SA, Porterfield, HS McDermott RA, and **Dreskin SC**. Comparative Potency of Ara h 1 and Ara h 2 in Immunochemical and Functional Assays of Allergenicity. Clinical Immunology, 115:302-312, 2005.
36. Guyer B, Shimamoto SR, Bradhurst A, Grossbard E, **Dreskin S**, and Nelson H. Safety and Efficacy of a Mast Cell Inhibitor (R926112) in Adults with Asymptomatic Allergic Rhinitis. Allergy and Asthma Proceedings, 27: 208-213, 2006.
37. Yasnowsky KM, **Dreskin SC**, Efaw B, Schoen D, Vedanthan PK, Alam R, and Harbeck R. Chronic Urticaria Sera Increase Basophil CD203c Surface Expression. J Allergy and Clin Immunol, 117: 1430-1434, 2006. PMID: 16751009
38. **Dreskin, SC** The Genetics of Peanut Allergy. Current Allergy & Asthma Reports, 6:58-64, 2006. PMID: 16476197.
39. El Mezayen R, El Gazzar M, Nicolls MR, Marecki JC, **Dreskin SC**, and Nomiyzma H. Effect of thymoquinone on cyclooxygenase expression and prostaglandin production in a mouse model of allergic airway inflammation, I*mmunology Letters. 111(1):36-44, 2007*. UI: 17568691
40. El Mezayen R, El Gazzar M, Seeds MC, McCall CE, **Dreskin SC**, Nicolls MR. Endogenous signals released from necrotic cells augment inflammatory responses to bacterial endotoxin. Immunol Lett. 2007 Jul 31;111(1):36-44. PMID: 17568691.
41. El Gazzar M, El Mezayen R, Marecki JC, Nicolls MR, Canastar A, **Dreskin SC**. Anti-inflammatory effect of thymoquinone in a mouse model of allergic lung inflammation. Int. Immunopharmacol 6: 1135-42, 2006. PMID: 16714217.
42. El Gazzar M, El Mezayen R, Marecki JC, Nicolls MR, **Dreskin SC**. Down regulation of leukotriene biosynthesis by thymoquinone attenuates airway inflammation in a mouse model of allergic asthma. Biochim Biophys Acta 1760: 1088-1095, 2006. PMID: 17292554.
43. El Gazzar MA, El Mezayen R, Nicolls MR, **Dreskin SC**. Thymoquinone attenuates proinflammatory responses in lipopolysaccharide-activated mast cells by modulating NF-kappaB nuclear transactivation. Biochim Biophys Acta. 2007 Apr;1770(4):556-64. Epub 2007 Jan 12. PMID: 17292554.
44. McDermott RA, Porterfield HS, El Mezayan R, Burks AW, Schlichting D, Solomon B, Redzic JS, Harbeck RJ, Duncan MW, Hansen KC, **SC Dreskin**. Contribution of Ara h 2 to peanut-specific immunoglobulin E-mediated, cell activation, Clinical and Experimental Allergy, 37:752-763, 2007. PMID: 17456223.
45. Zheng W and **Dreskin SC**, A systemic reaction to thimerosal in influenza vaccine. Annals of Allergy and Clinical Immunology, 99:574-575, 2007. PMID: 18219843.
46. McDermott RA, Nelson HS, **Dreskin SC**, Mediator measurements following daily instillation of allergen: increased IL-5 and decreased IFN-γ. Allergy & Asthma Proceedings, 29: 146-151, 2008. PMID: 18430311.
47. Wood RA, Berger M, **Dreskin SC**, Setse R, Engler RJ, Dekker CL, Halsey NA. Hypersensitivity Working Group of the Clinical Immunization Safety Assessment (CISA) Network. An algorithm for treatment of patients with hypersensitivity reactions after vaccines. *Pediatrics. 122(3):e771-7, 2008.* PMID: 18762513.
48. Porterfield HS, Murray KS, Schlichting DG , Chen X, Hansen KC, Duncan MW, and **Dreskin SC.** Effector Activity of Peanut Allergens: A critical role for Ara h 2, Ara h 6, and their variants. Clinical and Experimental Allergy 39:1099-1108, 2009. PMID: 19438581.
49. Sheikh J, Saini SS, Kulczycki A Jr., **Dreskin SC**. A survey of allergists regarding the association of thyroid autoimmunity with chronic urticaria. J Allergy Clin Immunol. 123(5): 1173-5, 2009. PMID: 19251315.
50. Mathias SD, **Dreskin S**, Kaplan A, Saini S, Spector S, and Rosen KE. Development of an Urticaria Patient Daily Diary for Chronic Idiopathic Urticaria. Annals of Allergy, Asthma, and Immunology, 105:142-148, 2010. PMID: 20674825.
51. **Dreskin SC**, Tripputi MT, Aubrey, MT, Mustafa, SS, Atkins, D, Leo, HL, Song, Schlichting, D, Talwar, H, Wang, Q, and Freed, BM. Peanut-allergic subjects and their peanut-tolerant siblings have large differences in peanut-specific IgG that are independent of HLA class II. Clinical Immunology Sept 15, 137: 366-373, 2010. PMID: 20850383.
52. Johann-Liang R, Josephs, S, and **Dreskin SC**. Analysis of Anaphylaxis Cases following Vaccination: Ten Years Review from the National Vaccine Injury Compensation Program.
Ann of Allergy Asthma & Immunol. 2011: 106:440-3. PMID: 21530879.
53. **Dreskin SC**,Ayars A, Jin Y, Atkins D, Leo, HL, and Song B. Genetic variants of CD14 are associated with peanut allergy and elevated IgE levels in peanut allergic subjects. Ann Allergy Asthma and Immunol. 2011: 106(2):170-2. PMID: 21277522.
54. Martucci MA and **Dreskin SC**. Immunologic Similarities Between Selected Autoimmune Diseases and Peanut Allergy: Possible New Therapeutic Approaches. Current Allergy and Asthma Reports, 2011: 11:334-339. PMID: 21556881.
55. Chen X, Zhuang Y, Wang Q, Moutsoglou D, Ruiz G, Yen S-E, and **Dreskin S C**. Analysis of the Effector Activity of Ara h 2 and Ara h 6 by Selective Depletion from a Crude Peanut Extract. Journal of Immunological Methods, 2011: 372: 65-70. PMID: 21777590.
56. Otsu K and **Dreskin SC.** Peanut Allergy: An evolving clinical challenge. Discovery Medicine 2012: 12(65): 319-328. PMID: 22031669
57. KulisM, ChenX, LewJ, WangQ, PatelOP, Zhuang Y, MurrayKS, DuncanMW, PorterfieldHS, BurksAW, **DreskinSC.** The 2S albumin allergens of Arachis hypogaea, Ara h 2 and Ara h 6, are the major elicitors of anaphylaxis and can effectively desensitize peanut-allergic mice. Clin Exp Allergy. 2012 Feb;42(2):326-36. PMID:22288514
58. Zhuang Y and **Dreskin SC**. Redefining the major peanut allergens. Immunol Res. 2013 Mar;55(1-3):125-34. PMID: 22948807.
59. Zhuang Y, Durrani S, Hodges BD, **Dreskin SC**, Chen X. Expression of recombinant Ara h 6 in Pichia pastoris but not in E. coli preserves allergic effector function and allows assessment of specific mutations Mol Nutr Food Res. 2012 Jun;56(6):986-95. PMID:22707273.
60. Chen X, Wang Q, El-Mezayen R, Zhuang, Y, and **Dreskin SC**. The allergic effector activity of a crude peanut extract: Ara h 2 and Ara h 6 are equipotent and substantially redundant. Int Arch Allergy Immunol. 2013;160(3):251-8. PMID: 23075924
61. Go AC, Barber GR, **Dreskin SC**. Implementing standardized intravenous antibiotic desensitizations among hospital inpatients. Am J Health Syst Pharm. 2013 Mar 15;70(6):540-8. doi: 10.2146/ajhp110718. PMID: 23456408.
62. Pahud BA, Williams SE, Dekker CL, Halsey N, Larussa P, Baxter RP, Klein NP, Marchant CD, Sparks RC, Jakob K, Aukes L, Swope S, Barnett E, Lewis P, Berger M, **Dreskin SC**, Donofrio PD, Sejvar JJ, Slade BA, Gidudu J, Vellozzi C, Edwards KM. Clinical assessment of serious adverse events in children receiving 2009 H1N1 vaccination. J. 2013 Feb;32(2):163-8. PMID: 23334340.
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64. Koid AE, Chapman MD, Hamilton RG, Van Ree R, Versteeg SA, **Dreskin** **SC**, Koppelman SJ, Wuenschmann S Ara h 6 complements Ara h 2 as an Important Marker for IgE Reactivity to Peanut. J Agric Food Chem. 2014; 62: 206-213. PMID: 24328145
65. Mills K. Lay J. Wu W. Robinette C. Kesic MJ. **Dreskin SC**. Peden DB. Hernandez M. Vitamin E, -tocopherol, diminishes ex vivo basophil response to dust mite allergen. Allergy. 69(4):541-4, 2014. UI 24697338.
66. Bernard H, Guillon B, Drumare M-F, Paty E, **Dreskin SC**, Wal J-M, Adel-Patent K, and Hazebruck S. Allergenicity of peanut component Ara h 2: contribution of conformational versus linear hydroxyproline-containing epitopes. J Allergy Clin Immunol. 2014; 6749(14); 1520-6. PMID: 25483599.
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68. Patel OP, Giorno RC, Dibbern DA, Andrews KY, Durairaj S, and **Dreskin SC**. A Preliminary Study of Gene Expression Profiles in Chronic Idiopathic (spontaneous) Urticaria. Allergy & Rhinology. 2015 Jan;6(2):101-10. PMID: 26302730.
69. Moutsouglou, D and **Dreskin SC**. B cells establish, but do not maintain, long-lived murine anti-peanut IgE. Clinical and Experimental Allergy, 2016 Apr;46(4):640-53. PMID: [27021119](http://www.ncbi.nlm.nih.gov/pubmed/27021119) PMCID: [PMC4815436](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4815436/). **Featured article.**
70. International Consensus (ICON): Allergic Reactions to Vaccines. **Stephen C. Dreskin**, Neal A. Halsey, John M. Kelso, Robert A. Wood, Donna S Hummell, Kathryn M. Edwards, Jean-Christoph Caubet, Renata J. M. Engler, Michael S Gold, Claude Ponvert, Pascal Demoly, Mario Sanchez Borges, Antonella Muraro, James T. Li,Menachem Rottem, and Lanny J. Rosenwasser. the World Allergy Organization Journal, 2016. 9(1):32-60. PMID: 27679682.
71. Chen X, Negi S, Liao S, Goa N, Braun W, and **Dreskin SC.** Conformational IgE epitopes of peanut allergens Ara h 2 and Ara h 6. Clinical & Experimental Allergy, 2016 Aug;46(8):1120-8. PMID: [27238146](http://www.ncbi.nlm.nih.gov/pubmed/27238146) PMCID: [PMC4963300](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4963300/)
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74. Stitt JM, Dzieciatkowska M, Edwards MG, Hansen K, Hedlund G, and **Dreskin SC**. The basophil proteome in chronic spontaneous urticaria distinguishes responders to omalizumab from non-responders. Clin Exp Allergy 2018 Jul;48(7):898-901. doi: 10.1111/cea.13149. Epub 2018 May 20. PMID 29671921. DOI:[10.1111/cea.13149](https://doi.org/10.1111/cea.13149).
75. van der Kleij HPM; Warmenhoven HJM; van Ree R; Versteeg SA; Pieters RHH; **Dreskin SC**; Knulst AC; Hoffen EV; Opstelten DJE; Koppelman SJ; Smit JJ. Chemically modified peanut extract shows increased safety while maintaining immunogenicity. Allergy. 2018 Dec 2. doi: 10.1111/all.13687. PMID:30506686
76. Hazebrouck S, Guillon B, Paty E, **Dreskin SC**, Adel-Patient, K and Bernard H. Variable IgE cross-reactivity between peanut 2S-albumins: The case for measuring IgE to both Ara h 2 and Ara h 6. Clin Exp Allergy. 2019 May 20. doi: 10.1111/cea.13432. PMID:31108010
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79. **Dreskin SC,** Koppelman SJ, Andorf S, Nadeau KC, Kalra A, Braun W, Negi SS, Chen X, Schein CH. The importance of the 2S albumins for allergenicity and cross-reactivity of peanuts, tree nuts, and sesame seeds. J Allergy Clin Immunol. 2021 Apr;147(4):1154-1163. doi: 10.1016/j.jaci.2020.11.004. Epub 2020 Nov 18. PMID: 33217410.
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