

	MA
1983-1987	Associate, Department of Medicine, Children's Hospital Medical Center, Boston, MA
1983-1989	Director of Diagnostic Allergy-Clinical Immunology Laboratory; Children's Hospital, Boston, MA
1987-1989	Associate Clinical Director of Combined Immunology Program, Children's Hospital, Boston, MA
1987-1989	Director of Allergy Program, Children's Hospital, Boston, MA
1987-1989	Senior Associate, Department of Medicine, The Children's Hospital, Boston, MA
1987-1989	Associate Professor, Department of Pediatrics, Harvard Medical School, Boston, MA
1989	Senior Staff Physician, National Jewish Health, Denver, CO
1989	Head, Division of Pediatric Allergy-Immunology, National Jewish Health, Denver, CO
1990-1991	Associate Professor, Department of Pediatrics, University of Colorado Denver, Denver, CO
1991	Professor, Department of Pediatrics, University of Colorado Denver, Denver, CO
1994	Director, NIH Clinical and Translational Research Center, National Jewish Health, Denver, CO
2006	Scientific Advisory Committee, University of Colorado Denver Medical School, Denver, CO
2010-2016	The AAAAI Practice Improvement and Education Committee, Chicago, IL
2022	Distinguished Professor of Pediatrics, Department of Pediatrics, National Jewish Health, Denver, CO
2024	Councilor on the International Eczema Council (IEC)

III. PATENTS AND INVENTIONS

1993	IgE-, IgE dependent histamine releasing factor (U.S. Patent application serial number 08/031,680 - filed March 15, 1993). Inventors: Leung DYM, Sampson HA.
1993	Method for determining a vasculitis disease (U.S. Patent application serial number 5,286,623 - issued February 15, 1994). Inventors: Leung DYM, Kotzin BL, Abe J.
1994	Method for treating kawasaki syndrome by administration of an anti-TSST-1 agent which is not gamma globulin (U.S. Patent Number 5,460,813 - issued October 24, 1995). Inventors: Leung DYM, Schlievert PM, Meissner HC, Fulton D, Kotzin BL.
1995	Method for diagnosing kawasaki syndrome (U.S. Patent application serial number 5,470,716 - issued Nov 28, 1995). Inventors: Leung DYM, Schlievert PM, Meissner HC, Fulton D.
1996	Isolated toxin associated with kawasaki syndrome (U.S. Patent Number 5,585,465 - issued December 17, 1996). Inventors: Leung DYM, Schlievert PM, Meissner HC.
1996	Methods of diagnosing steroid resistant inflammation due to type I or type II glucocorticoid receptor binding abnormalities. (U.S. Patent Application Serial Number 5,567,590 - issued April 16, 1996). Inventors: Leung DYM, Spahn JD, Szeffler SJ.
2002	Anti-viral activity of cathelicidin peptides. (U.S. Patent Application Serial Number PCT/USO4/006952 - filed 03/05/04). Inventors: Leung DYM, Gallo RL.
2005	Methods of treating diseases with high correlation of cutaneous lymphocyte antigen positive cells. Filed 02/14/05. Reference No. 60/653,114 (05-05P1). Inventors: Leung DYM, Bilsborough J, Gross J.
2006	Methods of treating diseases which are mediated by cutaneous lymphocyte antigen positive cells. Filed 2/14/2006. Reference No. 11/353,427. Inventor: Leung DYM.
2006	Methods of predicting therapeutic response in atopic dermatitis to IL-31 antagonists. Filed 2/14/06. Reference No. 11/353,454. Inventor: Leung DYM.
2010	Cationic steroid antimicrobial compositions and methods of use. (U.S. Patent No. 7,754,705 B2 - filed 02/01/06, issued 7/13/10). Inventors: Savage PB, Leung DYM.
2012	Cationic steroid antimicrobial compositions and methods of use. (U.S. Patent Application

- 2013 Serial No. 13/538,676 - filed 06/29/12). Inventors: Savage PB, Leung DYM.
Methods of using IL-31 antagonists in diseases mediated by cutaneous lymphocyte antigen positive T cells. (BMS Patent Docket No. Z00606-US-DIV2 - U.S. Serial No. 12/727,912). Inventor: Leung DYM.
- 2013 Methods of treating diseases which are mediated by cutaneous lymphocyte antigen positive cells. (U.S. Patent No: 13/754278).
- 2015 Methods to identify and treat subjects having corticosteroid-resistant inflammatory diseases. (U.S. Patent Application Number 14/767,434)
- 2015 A mixture of 10 lipids accelerates wound healing in normal and diabetic mouse. (U.S. Patent Application Number 62/215,364)
- 2016 Methods of detecting and preventing atopic dermatitis. (U.S. Patent Application Number 2879-197-PROV) 15/385,051 (U.S. Patent No.10,852,307)17/078,417 (pending)
- 2018 Methods to identify and treat subjects having corticosteroid-resistant asthma (U. S. Patent Application Number 10,054,589)
- 2020 Methods of protecting and preventing atopic allergic diseases. (U. S. Patent Application Number 15/385,051)
- 2023 Lipid profiles for atopic dermatitis identification. (U.S. Patent serial number: 15/890,881) <https://patents.google.com/patent/US20180224470A1/en?qoq=15%2f890%2c881>
- 2024 2879-215 Methods of identifying atopic dermatitis and food allergies. 16/654,333 (U.S. Patent Application Number 11,937,937) 18/586,007 (pending)
- 2024 2879-203 Lipid abnormalities and association with atopic allergic diseases. (U.S. Patent Application Number 18/329,769 (pending) 15/890,881 (U.S. Patent No. 11,709,169)
- 2024 2879-243 Methods of predicting atopic dermatitis (U.S. Patent Application Number 63/594,847) 18/393,301 (pending)
- 2024 2879-245-PROV Methods of predicting food allergy (U.S. Patent Application Number: 63/594,847) 2879-245-PROV-1 63/649,156 (newly filed PROVs)
- 2024 2879-171 Methods to identify and treat subjects having corticosteroid-resistant inflammatory diseases. 14/767,434(U.S Patent No. 10,054,589)16/031,633 (U.S. Patent No. 11,209,434) 17/529,700 (allowed)
- 2024 Antimicrobial composition and methods of use thereof. (U.S. Patent Application Number 63/708,337), (Attorney Docket: 17023.300PV1.

IV. AWARDS AND HONORS

- 1970 Phi Beta Kappa
- 1970-1977 NIH Medical Scientist Training Program
- 1976 Young Researcher of the Year (Illinois)
- 1979-1981 NIH National Research Service Award
- 1983-1985 NIH Young Investigator Research Award
- 1989 Who's Who in Industry and Science
- 1989 The Clemens von Pirquet Memorial Lectureship (Asthma and Allergy Foundation of America) on Atopic Dermatitis at Georgetown University
- 1991 AFRC Henry Christian Award for Excellence in Research
- 1992 Listed in Woodward & White's *The Best Doctors in America*
- 1992 American Society for Clinical Investigation
- 1993 Who's Who in America
- 1993 The Jerome Glaser Memorial Lectureship on Atopic Dermatitis at The American Academy of Allergy and Immunology (AAAAI) National Meeting
- 1994 International Who's Who in Medicine
- 1994 The Jean Pouliot Telethon Lectureship for Research into Childhood Diseases at McGill University, Montreal on Mechanisms of Poorly Controlled Asthma
- 1995 The C. Warren Bierman Memorial Lectureship on Mechanisms of Steroid Resistant Asthma at The American Academy of Allergy and Immunology National Meeting, New York
- 1995 National Jewish Health Fellows Award for Teaching Excellence

- 1995-2005 Recipient of NIH National Heart, Lung and Blood Institute MERIT Award for Studies in Kawasaki Syndrome
- 1996 The Leck Memorial Lectureship on Kawasaki Disease: Pathogenesis and Implications for Treatment at The Children's Hospital of Philadelphia
- 1997-2003 Board of Directors, American Board of Allergy and Immunology
- 1997 E. Mead Johnson Award for Outstanding Research in Pediatrics, Society for Pediatric Research
- 1998 Joseph Kwasman Memorial lectureship on Atopic Dermatitis: From Jerome Glaser to the Present at The University of Rochester, New York
- 1998 Honorary Fellow, Allergy Society of South Africa
- 1998-2015 Editor-in-Chief, The Journal of Allergy and Clinical Immunology
- 1998-2007 Consulting Editor, The Journal of Clinical Investigation
- 1999 The Vida Gordon Lectureship on Atopic Dermatitis at Arkansas Children's Hospital, Little Rock
- 1999 The Sheldon C. Siegel Memorial Lectureship on Pathogenesis and Treatment of Atopic Dermatitis at the American Academy of Allergy, Asthma and Immunology annual meeting in Orlando
- 1999 The Ernst Schering Lectureship on Atopic Dermatitis in Berlin
- 2001 Richard Farr Lectureship at Aspen Allergy Conference
- 2001 Pfizer Visiting Professorship, UC San Diego
- 2002 Burton Zweiman Lectureship at 2002 American Academy of Asthma, Allergy and Immunology Annual Meeting
- 2002 Stanislaus Jaros Lectureship at American College of Allergy, Asthma and Immunology Annual Meeting
- 2002 Listed in International Biographical Centre, Cambridge, Outstanding Scientists of the 21st Century
- 2003 Pfizer visiting Professorship, St. Christopher's Hospital for Children, Philadelphia
- 2003 Outstanding Scientific Achievement Award, National Jewish Health Faculty Award
- 2003 World Allergy Organization Scientific Achievement Award, Vancouver
- 2003 Ghoury Memorial Lectureship at University of Cincinnati Medical Center
- 2003 Peanut Allergy Article in NEJM named one of Top Science Stories in 2003 by Scientific American
- 2003 Pfizer Visiting Professorship, University of Chicago, Chicago
- 2004 Seventeenth James N. Gilliam Memorial Lectureship, University of Texas Southwestern Medical Center, Dallas
- 2004 Erich Hoffmann Memorial Lectureship, University of Bonn, Germany
- 2004 American Skin Association Annual Psoriasis Achievement Award
- 2004 Board of Directors, American Academy of Asthma, Allergy, and Immunology
- 2005 Robert A. Cooke Memorial Lectureship at American Academy of Allergy, Asthma and Immunology Annual Meeting, San Antonio
- 2006 ISI Most Highly Cited Authors in Immunology (top half percent of citations in past 20 years)
- 2007 Society of Investigative Dermatology Julius Stone Lectureship on The Immunology of Atopic Dermatitis
- 2008 Keynote speaker in Barrier Dysfunction in Allergic disease. European Academy of Allergy, Asthma and Immunology. Barcelona Spain
- 2008 Plenary Speaker on Recent Advances in Atopic Dermatitis, 32nd Annual Meeting of Japanese Society of Dermatology
- 2008 Keynote lecturer on The Innate Immune Response in Allergic Diseases, 4th Congress of the Federation of Immunology Society of Asia-Oceania
- 2008 Outstanding Scientific Achievement in Clinical Research Award, National Jewish Health
- 2009 Arthur Rook Oration at The 79th British Association of Dermatology on *The Role of Staphylococcus Aureus in Atopic Dermatitis*
- 2012 The American Academy of Allergy, Asthma and Immunology Distinguished Service Award for Accomplishments as Editor-in-Chief of The Journal of Allergy and Clinical

	Immunology
2012	US News and World Report named among DL as top 1% of physicians
2013	Approval of ARTrust Donald Y. M. Leung/JACI Research Fund and Lectureship at The American Academy of Allergy, Asthma and Immunology
2013	American Academy of Allergy, Asthma and Immunology Robert A. Cooke Memorial Lectureship on <i>The Role of Skin Barrier Abnormalities in Atopic Dermatitis</i>
2015	The National Jewish Health Kauvar Presidential Award
2015	Honorary Professor, The 2 nd Affiliated Hospital of Guangzhou Medical University; Guangzhou, China
2016	Honorary Professor, Xiangya School of Medicine, Central South University; Changsha, China
2016	12 th Strunk Lectureship at The Washington University School of Medicine, St Louis, MO
2016	Establishment of the Donald Leung/JACI Editors AAAAI Foundation Career Development Award
2016	Establishment of the AAAAI Foundation and Donald Y.M. Leung, MD, PhD, FAAAAI-JACI Lectureship Award
2017	Best Doctors in Pediatric Specialty Recognition
2018	The American Academy of Allergy, Asthma and Immunology Distinguished Scientist Award for contributions to Atopic Dermatitis
2018	Canadian Society of Allergy and Clinical Immunology CSACI Bram Rose Memorial Lectureship Award
2019	Recognized by ALLERGY as a Legend in Allergy-Immunology
2020	Hugh A. Sampson Lectureship in Food Allergy
2020	Web of Science's Highly Cited Researchers of 2020
2021	Gary S. Rachelefsky, MD FAAAAI Lectureship: Investing Together in Our Future at the 2021 AAAAI Virtual Annual Meeting.
2021	Named by The Journal of The America Academy of Dermatology as one of the top 5 most highly cited authors in Dermatology.
2021	Named by The Journal of The America Academy of Dermatology as the investigator with the top H-index and C-score amongst the most highly cited authors in Dermatology (Szeto MD, et al. Top authors in dermatology: Comparisons of standardized database citation indicators. J Am Acad Dermatol. 2021;85(1):e57-e59. PMID: 33774089).
2022	AAAAI Foundation and Donald Y. M. Leung, MD PhD FAAAAI-JACI Lecture: Investing Together in Our Future
2022	Research.com Ranking of Top 1,000 Scientists in the Field of Immunology. Ranked #69 in the world and #49 in the United States.
2022	Web of Science's 2022 Highly Cited Researcher
2024	Recognized by Nat Geo as one of the top medical breakthroughs of 2024 on the introduction of omalizumab for the treatment of food allergy.
2024	Named by Scientific Discovery as their #2 breakthrough of the year: The introduction of omalizumab for the treatment of food allergy.

V. PROFESSIONAL SOCIETIES

1983	American Federation of Clinical Research
1983	American Academy of Allergy and Immunology, Member
1983	American Association of Immunologists
1984	New England Society of Allergy
1986	Collegium International Allergologicum
1987	Society for Pediatric Research
1987	American Academy of Allergy, Asthma and Immunology, Fellow
1989	American Association for the Advancement of Science
1989	Colorado Allergy Society
1992	Society for Investigative Dermatology
1993	European Society of Pediatric Allergy and Clinical Immunology

1993 American Society for Clinical Investigation
 2001 American College of Allergy, Asthma and Immunology, Fellow

VI. COMMITTEE PARTICIPATION (Abbreviated)

A. CHILDREN'S HOSPITAL, BOSTON, MA

1985-1989 Curriculum Committee for Clinical Research Center
 1987-1989 Coordinator for Residency Training in Combined Immunology Program
 1987-1989 Steering Committee, Department of Medicine

B. NATIONAL JEWISH HEALTH, DENVER, CO

1989-present Member, Executive Committee, Department of Pediatrics
 1990-present Chairman, Steering Committee, Division of Allergy & Immunology
 1990-1992 Member, Clinical Investigation Committee
 1990-present Chairman, Pediatric Fellows Research Committee
 1990-1991 Member, Research Task Force
 1991-1993 Member, Task Force for Incentive Compensation
 1992-present Member, Keystone Allergy Conference Planning Committee
 1992-2000 Chairman, Clinical Investigation Committee
 1993 Chairman, Focus Group on Allergy
 1994 Director, NIH General Clinical Research Center Satellite at National Jewish Health

 2004-present Faculty Recruitment Oversight Committee Member
 2008 Center for Genetics and Therapeutics Working Group at National Jewish Health
 2011 Clinical Research Leadership Committee; National Jewish Health, Denver
 2011 IRB Scientific and Scholarly Review Working Group, National Jewish Health, Denver

 2012 National Jewish Health and Children's Hospital of Colorado Affiliation Committee
 2015-2019 Director, Food Allergy Research Education (FARE) Center of Excellence, National Jewish Health

 2016-2018 Department of Pediatrics Executive Committee, National Jewish Health
 2019-present Recruitment Committee for NJH Clinical Immunology Division, National Jewish Health

C. UNIVERSITY OF COLORADO, DENVER, CO

1990-present Member, Scientific Advisory Committee, Pediatric Clinical Research Center
 1993-present Member, Scientific Advisory Committee, Department of Medicine Clinical Research Center

 1994-present Associate Program Director, NIH-funded General Clinical Research Center, University of Colorado Denver

 2006-present Research Advisory Committee, University of Colorado Denver
 2008 Dean's Advisory Committee, Program for the Dean's Distinguished Lecture Series, University of Colorado Denver

D. NATIONAL

1987-1993 American Academy of Allergy, Committee on Cutaneous Diseases
 1987 Ad Hoc Committee, NIH Immunologic Sciences Study Section
 1988-present Eczema Association for Science and Education, Scientific Advisory Committee
 1988-1993 American Academy of Allergy, Postgraduate Education Committee
 1989 Ad Hoc Committee, NIH Immunologic Sciences Study Section
 1990 NIAID Task Force for New Research Initiatives in Immunology and Allergy
 1991-1994 Immunology and Microbiology Study Committee for the American Heart Association

 1991-present Joint Test Committee for Diagnostic and Laboratory Immunology, American Board of Pediatrics Representative
 1991-present American Academy of Allergy, Chairman of Atopic Dermatitis Committee

1992-1997 National Institutes of Health, General Medicine A Study Section
 1992-1994 American Academy of Allergy, Secretary of Cutaneous Diseases Interest Section
 1992-1995 American Academy of Allergy, Program Committee
 1993 American Academy of Allergy/Clinical Immunology Society, Joint Focus Group on Autoimmunity
 1994-1997 American Academy of Allergy, Asthma and Immunology, Chairman of Cutaneous Diseases Interest Section
 1995-1997 American Academy of Allergy, Asthma and Immunology, Member, Nominating Committee
 1997-2003 Board of Directors, American Board of Allergy and Immunology
 1998-2000 Co-Chair, American Board of Allergy and Immunology Certifying Exam
 1998-present Co-Chair, Program Committee, 1999 Conjoint Conference of AAAAI and American Academy of Dermatology, New York
 1998-present Chairman, AAAAI, Editorial Committee
 2002 AAAAI Research Task Force
 2003-2004 Chairman, American Board of Allergy/Immunology, Nominating Committee
 2004 Member, AAAAI Education Division
 2004 Member, AAAAI Practice and Policy Division
 2005 Chairman, American Academy of Allergy, Asthma and Immunology Topical Calcineurin Inhibitor Task Force
 2005-2008 Vice-Chairman, American Academy of Allergy, Asthma and Immunology Referral Guidelines Committee
 2005-2013 Chairman, Medical Advisory Board - Food Allergy Initiative
 2004-2008 AAAAI Atopic Dermatitis/Eczema Committee (IS)
 2004-2008 AAAAI Board of Directors (D), At-Large Member
 2003-2015 JACI Editorial Board (D), Chair
 2004-2008 AAAAI Mini-Primer Task Force (D), Co-Chair
 2007-2008 AAAAI Board of Directors, At-Large Member
 2004-present Edelstein Chair in Pediatric Allergy and Immunology
 2006 NIAID/NIH Expert Panel on Food Allergy
 2006-2009 Member, SPR E. Mead Johnson Award Selection Committee
 2007 NIAID National Allergy and Infectious Disease Advisory Council
 2008 Reviewer, The Center for Scientific Review National Institutes of Health, Small Business Innovation Research (SBIR), Small Business Technology Transfer Research (STTR)
 2008 NIH/FDA Panel on Food Allergy
 2010-2020 PI, The NI(FARE) Center H/NIAID Atopic Dermatitis Research Network
 2012-2013 Member, World Allergy Organization (WAO). Special Committee on Skin Allergy
 2012 Member, AAAAI Advisory Committee on Strategic Initiatives
 2012 NIH/NIAID National Allergy and Infectious Disease Advisory Council
 2013-present NIH/NIAID Immune Tolerance Network, Steering Committee
 2014-present NIAID, Immune Tolerance Network, Allergy Steering Committee
 2015 Chairman, The NIH/NIAID Atopic Dermatitis Research Network Steering Committee
 2016 Chairman of DSMB, Aimmune Clinical Trial of *Peanut Allergy Oral Immunotherapy Study of AR101 in Children and Adults*
 2016 FDA Pediatric Guidance for Atopic Dermatitis
 2016-present Chairman, Aimmune Data Safety and Monitoring Committee on the ARC003 protocol, an international, multicentered, randomized, double-blind, placebo-controlled study of the efficacy and safety of AR101 in peanut allergic children and adults
 2017 Member, NIAID Peer Review Committee of PAR-17-254, Lasker Clinical Research Scholars Program
 2017 Ad hoc Reviewer for the MOSS Q02 NIAMS Special Emphasis Panel
 2019 Ad hoc reviewer for the NIAMS ACTS Study Section

2022-2026	Arthritis, Connective Tissue and Skin Study Section (ACTS)
2022-2026	Musculoskeletal, Oral and Skin Sciences Integrated Review Group (MOSS)
2022-2026	Center for Scientific Review (CSR)
2024	Committee Participation at the Skin and Connective Tissue Sciences (SCTS) study section

VII. TEACHING EXPERIENCE

A. POSTGRADUATE COURSE (SELECTED FROM >300 PRESENTATIONS)

1. Co-director and course lecturer, Pediatric Allergy and Clinical Immunology Harvard Medical School, Boston, 1981, 1982, 1983, 1984, 1986, 1988, 1989.
2. Guest Lecturer on Mechanisms of Skin Inflammation, 34th Symposium on the Biology of Skin, Salishan, 1984.
3. Plenary Speaker on The Human IgE Response, IXX International Congress of Allergology and Clinical Immunology, Washington, 1985.
4. Guest Lecturer on Regulation of IgE synthesis in man, American Academy of Dermatology, Las Vegas, 1985.
5. Guest Lecturer on Asthma, Postgraduate Allergy Course, New Brunswick Medical Society, St. John, Canada, 1984, 1986.
6. Guest Lecturer on IgG Subclass Deficiencies, Postgraduate Allergy Seminars, Massachusetts General Hospital, Boston, 1986, 1988, 1989.
7. Guest Lecturer on Pediatric AIDS, Fall Meeting, New England Society of Allergy; Woodstock, 1987.
8. Guest Lecturer on Atopic Dermatitis, Postgraduate Pediatrics Course, Massachusetts General Hospital, Boston, 1987, 1988, 1989.
9. Lecturer on the Treatment of Immunodeficiency Disease. American Academy of Allergy, Anaheim, 1988.
10. Lecturer on the Molecular Genetics of IgE Binding to FC-epsilonR. American Academy of Allergy, Anaheim, 1988.
11. Keynote Lecturer on the Immunopathogenesis of Kawasaki Disease. Ninth National Japanese Conference on Kawasaki Disease, Sapporo, Japan, 1988.
12. Seminar on the Regulation of IgE Synthesis. American Academy of Allergy Annual Meeting, San Francisco, 1990.
13. Course Lecturer on Evaluation and Management of Allergic Diseases and Immunodeficiencies, Postgraduate Pediatric Course, Harvard Medical School, Boston, 1982, 1983, 1984, 1986, 1987, 1988, 1989.
14. Guest Lecturer on Atopic Dermatitis, Postgraduate Allergy Course, Tufts-New England Medical Center, Boston, 1986, 1987, 1988, 1989.
15. Co-director and Course Lecturer on B cell Defects, In vitro IgE Assessment, and Atopic Dermatitis, Postgraduate Course, American Academy of Allergy and Clinical Immunology, Boston, 1984, 1985, 1987, 1989.
16. Guest Lecturer on Atopic Dermatitis, Postgraduate Pediatric Course. Georgetown University School of Medicine, Washington, 1989.
17. Director and Lecturer, Introductory Course for Greater Boston Allergy-Immunology Fellows, The Children's Hospital, Boston, 1985, 1987, 1988, 1989.
18. Guest Lecturer on the Use of Intravenous Gammaglobulin in Kawasaki Disease, Society for Infectious Diseases, Houston, 1989.
19. Guest Lecturer on Atopic Dermatitis, Colorado Dermatology Society, Denver, 1989.
20. Chairman and Lecturer, Symposium on New Directions in the Use of Antibody Therapy, American Academy of Allergy, Baltimore, 1990.

21. Plenary Lecturer on the Use of IVGG in Kawasaki Disease, American Society of Hematology, Boston, 1990.
22. Guest Lecturer on the Role of IVGG in Renal Disease, American Academy of Nephrology, Washington, 1990.
23. Director and Lecturer, Course on Approach to Skin Disorders seen by the Allergist, American Academy of Allergy, Baltimore, 1990, 1991.
24. Lecturer on Atopic Dermatitis and Contact Dermatitis, Postgraduate Course, American Academy of Allergy and Clinical Immunology, Boston, 1991.
25. Guest Lecturer on Immunopathology of Atopic Dermatitis. Asthma, Allergy Symposium, University of Geneva, Switzerland, 1991.
26. Guest Lecturer on Use of Interferon gamma as a therapeutic agent. Department of Medicine Grand Rounds, University of Geneva, Switzerland, 1991.
27. Program Director and Course Lecturer on Atopic Dermatitis and Regulation of IgE Synthesis. Postgraduate Course, American Academy of Allergy and Clinical Immunology, Denver, 1991, 1993, 1995.
28. Invited State of the Art Speaker on Regulation of IgE Mediated Responses. Ninth Annual Aspen Allergy Conference, 1991.
29. Guest Lecturer on Pathogenesis and Treatment of Atopic Dermatitis. Houston Allergy Society, 1992.
30. Invited State of the Art Speaker on Modulation of the Human IgE Response, American Academy of Pediatrics, San Francisco, 1992.
31. Guest Lecturer on Food Allergy, Fall Meeting, New England Society of Allergy; Falmouth, 1993.
32. Invited State of the Art Speaker on Steroid Resistant Asthma. Eleventh Annual Aspen Allergy Conference, 1993.
33. Lecturer on Atopic Dermatitis and Asthma, State of the Art Review Course, American Academy of Allergy and Clinical Immunology, Boston, 1993.
34. Guest Lecturer on Steroid Resistant Asthma, San Diego Allergy Society, San Diego, 1993.
35. Guest Lecturer on Steroid Resistant Asthma, Los Angeles Society of Allergy, Los Angeles, 1993.
36. Invited Plenary Speaker on Immune Mechanisms underlying Atopic Dermatitis. American Academy of Allergy, Chicago, 1993.
37. Invited Speaker on Steroid Resistant Asthma, Symposium on Frontiers in Medicine, Johns Hopkins Medical School, Baltimore, 1994.
38. Moderator and Lecturer, Symposium on The Role of Allergens in Skin Diseases, American Academy of Allergy, Anaheim, 1994.
39. Guest Lecturer on Atopic Dermatitis. University of Virginia Swineford Conference; Charlottesville, 1994.
40. Guest Lecturer on Steroid Resistant Asthma, Symposium on Management of Asthma, American Academy of Allergy, Anaheim, 1994.
41. Invited State of the Art Plenary Speaker on Superantigens and Human Disease, American Academy of Pediatrics, National Meeting, Dallas, 1994.
42. Guest Lecturer on Role of Superantigens in Skin Disease, 44th Symposium on the Biology of Skin, Snowmass, 1994.
43. The Jean Pouliot Telethon Lectureship for Research into Childhood Diseases at McGill University, Montreal on Mechanisms of Poorly Controlled Asthma, 1994.
44. Invited Speaker on Pathogenesis and Treatment of Atopic Dermatitis. Grand Rounds, Children's Hospital Medical Center, Boston, 1994.
45. The C. Warren Bierman Memorial Lectureship on Mechanisms of Steroid Resistant Asthma at

- The American Academy of Allergy and Immunology National Meeting in New York, 1995.
46. Invited Speaker on Immune Mechanisms Underlying Atopic Dermatitis. Western Society of Allergy, Newport Beach, 1995.
 47. Guest Lecturer on Immunopathogenesis of Atopic Dermatitis at McMaster University (Hamilton, Canada) Grand Rounds, 1995.
 48. Invited Keynote Speaker on the Potential Role of Superantigens in Kawasaki Disease. The 5th International Kawasaki Disease Symposium, Fukuoka, Japan, 1995.
 49. Invited Plenary Speaker on the Use of Cytokines as Therapeutic Agents. The American College of Allergy, Asthma and Immunology, Dallas, 1995.
 50. Invited Speaker on Pathogenesis and Treatment of Kawasaki Syndrome. Pediatric Grand Rounds, St. Mary's Hospital, London, UK, 1995.
 51. Guest Lecturer on The Role of Superantigens in Human Disease. Allergy-Immunology Society of Korea, Seoul, Korea, 1995.
 52. Visiting Professor of the Royal College of Physicians and Surgeons of Canada at the Ontario Medical Association on Steroid Resistant Asthma, in Toronto, Canada, 1995.
 53. Invited Plenary Speaker on Cell Interactions in Atopic Dermatitis. Il Giornate Internazionali di Allergologia E Immunologia, Rome, Italy, 1995.
 54. Invited Plenary Speaker on the Role of lymphocytes and macrophages in allergic diseases. The Transpacific Allergy Conference, Sydney, Australia, 1995.
 55. Invited Speaker on Cytokines in Dermatitis at: NIH Conference on Cytokines in Inflammation and Disease. Bethesda, 1995.
 56. The Leck Memorial Lectureship on Kawasaki Disease: Pathogenesis and Implications for Treatment at The Children's Hospital of Philadelphia, 1996.
 57. Invited Speaker on The Immunology and Treatment of Difficult to Manage Asthma. Grand Rounds, Johns Hopkins Hospital, Baltimore, 1996.
 58. Invited Lecturer on The Role of Corticosteroids in the Treatment of Asthma. Eastern Allergy Conference, Bermuda, 1996.
 59. Invited Plenary Speaker on Atopy and the Th1/Th2 Concept. 7th European Immunodermatology Society Meeting, Aarhus, Denmark, 1996.
 60. Guest Lecturer on Clinical Relevance of Superantigens and their Response to IVIG Therapy. Fourth International Symposium on IVIG, Interlaken, Switzerland, 1996.
 61. Invited Plenary Speaker on the Management of Steroid Resistant Asthma. 20th Meeting of The Allergy, Asthma and Immunology Society of Argentina, Buenos Aires, 1996.
 62. Invited Plenary Speaker on Glucocorticoid Resistance. Third International Congress on Neuroimmunomodulation. NIH, Bethesda, 1996.
 63. Pfizer Visiting Professorship at St. Louis University, 1997. Lectures included Atopic Dermatitis, Kawasaki Disease and Steroid Resistant Asthma.
 64. Invited Keynote Speaker on Pathogenesis and Clinical Aspects of Atopic Dermatitis. III Giornate Internazionali di Allergologia E Immunologia, Rome, Italy, 1997.
 65. Invited Plenary Speaker on The Role of Superantigens in Allergic Skin Disease. European Academy of Dermatology, Dublin, 1997.
 66. Symposium Speaker on Steroid Resistant Asthma at The American Academy of Allergy, Asthma and Immunology National Meeting, Washington, 1998.
 67. Grand Rounds Speaker on Steroid Resistant Asthma at The Children's Hospital, Denver, 1998.
 68. Invited Speaker on Atopic Dermatitis in the Fifth Annual Allergy Fellows Symposium, Chicago, 1998.
 69. Grand Rounds Speaker on Immunology and Treatment of Atopic Dermatitis at New York University, New York, 1998.

70. Joseph Kwasman Memorial lectureship on Atopic Dermatitis: From Jerome Glaser to the Present at The University of Rochester, 1998.
71. Invited Keynote Speaker on Alternative Therapies in the Management of Atopic Dermatitis. III international Symposium of Allergy and Clinical Immunology, Salvador, Brazil, 1998.
72. Invited Plenary Speaker on Immunology and Treatment of Allergic Skin Diseases. Tenth Annual Allergy and Immunology Congress of South Africa. Johannesburg, South Africa, 1998.
73. Invited Keynote Speaker on Therapeutic Perspectives in the Management of Atopic Dermatitis. IV International Consensus Conference of Allergology and Clinical Immunology, Rome, Italy, 1999.
74. The Sheldon C. Siegel Memorial Lectureship on Pathogenesis and Treatment of Atopic Dermatitis at the American Academy of Allergy, Asthma and Immunology Annual Meeting in Orlando, 1999.
75. Invited Speaker on Role of Staphylococcal Superantigens in Allergic Skin Disease. 8th Congress of the European Academy of Dermatology and Venereology. Amsterdam, the Netherlands, 1999.
76. Invited speaker on Role of Staphylococcus aureus and its products in atopic dermatitis. First International Consensus Conference on Atopic Dermatitis, Rome, Italy, 1999.
77. Guest Speaker on Immunopathology of Atopic Dermatitis at the American Academy of Dermatology, San Francisco, 2000.
78. Plenary Speaker on New Perspective in Atopic Dermatitis at the American Academy of Allergy, Asthma and Immunology Annual Meeting in San Diego, 2000.
79. Plenary Speaker on Role of Superantigens in Autoimmune Diseases at the International Congress of Pediatric Rheumatology, Geneva, 2000.
80. The Ernst Schering Lectureship on The Immunopathogenesis of Atopic Dermatitis, Schering Research Institute, Berlin, 2000.
81. Grand Rounds Speaker on Steroid Resistant Asthma at UC San Diego, 2001.
82. Plenary Speaker on Autoimmune and Infectious Aspects of Atopic Dermatitis at the American Academy of Allergy, Asthma and Immunology Annual Meeting in New Orleans, 2001.
83. Keynote Speaker on Pathogenic Aspects of Atopic Dermatitis at The Japanese Society of Allergy, Osaka, 2001.
84. Plenary Speaker on Role of Staphylococcal Toxins in Atopic Dermatitis at The Third International Symposium of Atopic Dermatitis, Portland, 2001.
85. Keynote Speaker on Management of Atopic Dermatitis at The Korean Society of Allergy, Seoul, 2001.
86. Plenary Speaker on Pathogenesis of Atopic Dermatitis at World Congress of Dermatology, Paris, 2002.
87. Plenary Speaker on Role of Microbes as Allergens at AAAAI Annual Meeting, New York, 2002.
88. Plenary Speaker on Atopic Dermatitis at The 5th Asia Pacific Congress of Allergology and Clinical Immunology, Seoul, Korea, 2002.
89. Plenary Speaker on Role of Infection in Atopic Dermatitis at the Fourth International Symposium of Atopic Dermatitis, Rome, 2003.
90. Invited Speaker on Strategies to Interfere with the Atopic March, 12th Congress of the European Academy of Dermatology and Venereology, Barcelona, 2003.
91. Seventeenth James N. Gilliam Memorial Lectureship on Atopic Dermatitis, University of Texas Southwestern Medical Center, Dallas, 2004.
92. Pediatric Dermatology Meeting on Atopic Dermatitis at Grand Ormond Street, London, 2004.
93. Erich Hoffmann Memorial Lectureship on Infection in Atopic Dermatitis, University of Bonn, Germany, 2004.
94. Plenary Speaker on "Current Understanding of Mechanisms of Allergic Diseases" at The 54th

- Annual Meeting of Japanese Society of Allergology, Yokohama, 2004.
95. Robert Cooke Memorial Lectureship at American Academy of Allergy, Asthma and Immunology Annual Meeting on New Paradigms in AD, San Antonio, 2005.
 96. Plenary Speaker at Pan-Asian Allergy Meeting, Seoul, Korea, 2005
 97. Invited Grand Rounds Speaker at University of Manitoba on AD, 2005
 98. Invited Speaker at Toronto Allergy Society, on IgE and allergic disease, 2005.
 99. Keynote speaker on Role of Infection in Atopic Dermatitis at International Symposium on Atopic Dermatitis, Arcachon, France, September 2005.
 100. Seebohm Visiting Lectureship in Allergy, Carver College of Medicine, University of Iowa, September 2006.
 101. Grand Rounds Speaker on Immune Mechanisms of Atopic Dermatitis at Rockefeller University, May 2008.
 102. Keynote speaker in Barrier Dysfunction in Allergic disease, EAACI, Barcelona Spain, June 2008.
 103. Plenary Speaker on Treatment of Atopic Dermatitis, Japanese Society of Dermatology, Tokyo, June 2008.
 104. Keynote speaker on Innate Immune Responses in Allergic Disease, Fourth Congress of the Federation of Immunology Societies of Asia-Oceania, Taipei, October 2008.
 105. Invited Speaker on "Steroid Resistance in Asthma" at The American Thoracic Society, May 2008; Toronto, Canada
 106. British Society of Dermatology, Arthur Rook Oration speaker "Immunology of Atopic Dermatitis" July 9, 2009, Glasgow, Scotland.
 107. Sir QW Lecturer on Allergic Skin Diseases, Hong Kong Allergy Convention, September 2012.
 108. The Robert A. Cooke Memorial Lectureship on Atopic Dermatitis at The American Academy of Allergy, Asthma and Immunology Annual Meeting, San Antonio, 2013.
 109. The Betty Wray Lectureship on The Role of Vitamin D in Allergic Diseases, Atlanta, 2013.
 110. Wert Lectureship on Pediatric Allergy, OHSU, Portland, 2013.
 111. William E. Pierson Visiting Lecturer on Atopic Dermatitis, University of Washington, Seattle, 2013.
 112. Invited Speaker on Atopic Dermatitis at The Colorado Allergy, Asthma and Immunology Society Denver 2014
 113. Key Note Speaker on Updates in Allergy Skin Diseases at The 32nd World Congress of Internal Medicine, Seoul, Korea, 2014
 114. Plenary Speaker on Novel Therapies in Atopic Dermatitis at The Korean Society of Allergy, Asthma and Immunology, Seoul 2014
 115. Key Note Speaker on Mechanisms Underlying Atopic Dermatitis: Implications for Treatment at The Aspen Allergy Conference, 2015
 116. Plenary Speaker on Deciphering the Complexities of Atopic Dermatitis at The Japanese Society of Dermatology, 2015
 117. Invited Grand Rounds Speaker on New Insights into Atopic Dermatitis at Stanford University, 2015
 118. Plenary Speaker on *Staphylococcus aureus* infections in Atopic Dermatitis at The Society of Investigative Dermatology, Atlanta 2015
 119. Invited Speaker on Shifting Paradigms of Atopic Dermatitis at The Japanese Society of Allergy, Asthma and Immunology, 2015
 120. Keynote Speaker at the 2016 AAAAI Annual Meeting, Los Angeles on *The Microbiome of Atopic Dermatitis*
 121. Plenary Lecture on The Role of Microbiome in Allergic Diseases at The 2016 Chinese Allergy

Society, Beijing

122. Visiting Scholar Lectureship, University of Hong Kong, 2016
123. Plenary Keynote Lecture, Asthma & COPD Conference, San Diego, 2016
124. Plenary Keynote Lecture, British Association of Dermatology on *Mechanisms of Infection in Atopic Dermatitis*, Birmingham, UK, 2016
125. Plenary Keynote Lecture, British Society of Allergy-Immunology on *Interactions between Epithelial Barrier and Immune Response*, Birmingham, UK, 2016
126. Plenary Speaker, 2017 European Academy of Allergy, Asthma and Immunology (EAACI), Helsinki, Finland. "The Skin as the first step in allergen sensitization."
127. Course Director, *Leaders in Eczema*, National Eczema Association, National Jewish Health, Denver, CO, August 2017
128. Plenary Speaker, *The Atopic March*, AAAAI Annual Meeting, March 2018
129. Course Director, *Atopic Dermatitis and Related Diseases Educational Program*, National Jewish Health, Denver, CO, November 2017
130. Symposia Moderator, *Section 504, Title II, and Ensuring the Protection of Students with Food Allergies*, Food Allergy Research & Education, National Jewish Health, Denver, CO, March 2018
131. Plenary Lecturer on Pathophysiology of Atopic Dermatitis. Eastern Allergy Conference, West Palm Beach, June 2018
132. Symposium Moderator and Key Note Speaker on Type 2 Responses in Atopic Dermatitis. European Academy of Allergy, Asthma and Immunology, Munich, Germany June 2018
133. Lecture on Food Allergy and Atopic Dermatitis at The Japanese Society of Allergy, Tokyo, June 2019
134. Grand Rounds at University of Nebraska on Atopic Dermatitis in April 2019
135. Lecture on The Atopic March at The Aspen Allergy Conference, July 2019
136. Lecture at Los Angeles Allergy Society on Atopic Dermatitis, Sept 2019
137. Lecture at NIAID/NIH on The Skin in Food Allergy Sept 2019
138. Lecture on Pathogenesis and Management of Atopic Dermatitis at Stanford (by ZOOM) June 2020
139. Lecture on Advances in Atopic Dermatitis to New York Allergy Society (by ZOOM) Sept 2020
140. Plenary Lecture on Phenotypes and Endotypes of Atopic Dermatitis at The International Forum on Atopic Dermatitis on Oct 11, 2020 in Nanjing, China (by ZOOM)
141. Lecture on "Immune Related Cutaneous Adverse Events" to the Immuno-Oncology Translational Network (IOTN) October 27, 2020 by ZOOM
142. Grand Rounds at Yale University on Multi-disciplinary Approach to Atopic Dermatitis (by ZOOM) Nov 2020
143. Invited Plenary Speaker on "Incorporating new and Emerging Therapies into Atopic Dermatitis Practis" (by ZOOM). March 1st, 2021
144. Invited speaker on "Multi-omic evaluation of atopic dermatitis in children" and "Development of food allergy in children with atopic dermatitis: Cellular and molecular mechanism" for KAPARD-APAPARI Joint Congress, May 2021
145. Invited speaker, "The Role of Infection in Atopic Dermatitis" for Long Island Allergy and Asthma Society, September 2021
146. Invited speaker on "Modern Treatments for Moderate to Severe Atopic Dermatitis" and "7 for 11: Hot Topics in Dermatology" for ACAAI, November 2021
147. Invited FIT Symposium speaker on "Atopic Dermatitis: Tips and Tricks to 'Crack' Difficult Cases – Allergy," AAAAI, February 2022
148. Invited Chrysalis Project Program speaker on "Atopic Dermatitis," AAAAI, February 2022

149. Invited speaker for “A New Age of Allergic Skin Diseases” on “Precision Approaches to Allergic Skin Diseases,” AAAAI, February 2022
150. Invited speaker on “Atopic Dermatitis” Rutgers Grand Rounds, 2022
151. Invited speaker at Northwestern University on Update on Atopic Dermatitis”
152. Invated speaker for a 10-min oral presentation for “Dupilumab Inhibits Expression of Fibronectin and Fibrinogen, Skin Proteins that Regulate *Staphylococcus aureus* Adhesion in Atopic Dermatitis Skin and Improves Patient-Reported Outcomes”, at the 50 Congreso Nacional de Dermatología de la Academia Española de Dermatología y Venerología (AEDV23). May 2023, (Hybrid & Santiago De Compostela, Spain)
153. University of Pennsylvania Dermatology Grand Rounds Duhring lectureship on “Skin Barrier Dysfunction in Atopic Dermatitis, 2023

B. RESIDENT AND STUDENT TEACHING

The Children’s Hospital, Boston, MA

- | | |
|-----------|---|
| 1981-1989 | Attending in Allergy and Clinical Immunology |
| 1982-1989 | Attending in Clinical Research Center |
| 1984-1989 | Attending in General Pediatrics |
| 1985-1989 | Introduction to Clinical Medicine (Medical Students) |
| 1987-1989 | Coordinator for Residency Training in Combined Immunology Program |

National Jewish Health, Denver, CO

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| 1990-present | Attending in Allergy and Clinical Immunology |
| 1990-present | Attending in Pediatrics |
| 1990-present | Coordinator for Allergy Patient Care Conference |
| 1990-1997 | Coordinator for Pediatric Grand Rounds |
| | 1998-present Member, Steering Committee for Combined Allergy-Immunology Rounds |

University of Colorado, Denver, CO

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|--------------|---|
| 1990-present | Introduction to Clinical Medicine (Medical Students) |
| 1994-2012 | Coordinator for Pediatric Residency Training in Allergy-Immunology |
| 1994-2012 | Pediatric Course Director for Medical Students Elective in Immunology and Allergy |

VIII. MAJOR RESEARCH INTERESTS

- Immunologic mechanisms in atopic dermatitis
- Regulation of human IgE response
- Pathogenesis of Kawasaki Syndrome and related vasculitides
- Use of immunomodulatory agents in the treatment of allergic disorders
- Human T cell response and management of food allergens
- Mechanisms of steroid resistant asthma
- Role of superantigens in human disease
- Mechanisms for immune related events
- Predicting biomarkers for allergic diseases

IX. JOURNAL ACTIVITIES

- | | |
|-----------|---|
| 2017 | <u>Executive Editor</u> , Annals of Allergy, Asthma & Immunology |
| 1998-2015 | <u>Editor-in-Chief</u> , The Journal of Allergy and Clinical Immunology |
| 2006-2010 | <u>Consulting Editor</u> , The Journal of Clinical Investigation |

Editorial Boards

- Journal of Allergy and Clinical Immunology

Yearbook of Allergy and Clinical Immunology
 Clinical Reviews in Allergy
 Asthma Management 2000
 American Journal of Asthma and Allergy
 Pediatric Allergy and Immunology

Reviewer Activity

Journal of Clinical Investigation
 New England Journal of Medicine
 The Lancet
 Nature Medicine
 JAMA
 Journal of Allergy and Clinical Immunology
 Journal of Immunology
 Journal of Infectious Diseases
 Journal of Investigative Dermatology
 American Journal of Respiratory and Critical Care Medicine
 Pediatric Research
 Journal of Pediatrics

X. RESEARCH GRANTS AND CONTRACTS (Selected)

1. Charles H. Hood Foundation, "Immunoregulatory abnormalities in Kawasaki Disease." Principal investigator: Donald YM Leung, MD, PhD, 8/1/81-7/30/82. Total Direct Costs: \$26,250.
2. Charles H. Hood Foundation, "Immune Mechanisms in Atopic Dermatitis" Principal investigator: Donald YM Leung, MD, PhD, 8/1/82-7/30/83. Total Direct Costs: \$25,550.
3. National Institutes of Allergy and Infectious Diseases. New Investigator Research Award (1R23AI19385) "Immune Mechanisms in Kawasaki Disease." Principal investigator: Donald YM Leung, MD, PhD, 7/1/82-6/30/85. Total Direct Costs: \$107,005.
4. National Institutes of Allergy and Infectious Diseases (1R01AM31925) "Immunoregulatory Abnormalities in Atopic Dermatitis". Principal investigator: Raif S. Geha, MD and co-investigator, Donald YM Leung, MD, PhD, 12/1/82-11/30/85. Total Direct Costs: \$273,553.
5. National Institutes of Allergy and Infectious Diseases (1R01AI22058) "Regulation of IgE synthesis in Man". Principal investigator: Donald YM Leung, MD, PhD, 9/1/85-8/31/90. Total Direct Costs: \$650,873.
6. Genentech, Inc., "A Phase II Study of the Safety and Efficacy of Recombinant Human Interferon-gamma in Patients with Atopic Dermatitis", Principal investigator: Donald YM Leung, MD, PhD, 1/1/90-12/30/90. Total Direct Costs: \$67,034.
7. Immunobiology Research Institute, "Phase III Double Blind Study of TIMUNOX (Thymopentin) Injection Effects in Patients with Atopic Dermatitis", Principal investigator: Donald YM Leung, MD, PhD, 11/1/89-12/30/90. Total Direct Costs: \$111,000.
8. National Jewish Health, "A Double Blind Placebo Controlled Trial of Rush Immunotherapy in Patients with Peanut Allergy." Principal investigator: Donald YM Leung, MD, PhD, 7/1/90-6/30/91. Total Direct Costs: \$48,397.
9. National Institutes of Health, Heart, Lung and Blood Institute (5R01HL37260-01) "Pathogenesis and Etiology of Kawasaki Syndrome". Principal investigator: Donald YM Leung, MD, PhD, 12/1/86-11/30/91. Total Direct Costs: \$838,467.
10. Genentech, Inc., "A Phase I Study of the Safety of Inhaled Recombinant Human Interferon-gamma in Normal Subjects and Patients with Asthma", Principal investigator: Donald YM Leung, MD, PhD, 9/1/91-8/30/92. Total Direct Costs: \$53,000.
11. Glaxo, Inc., "The Effect of Ceftin on the Clinical Severity and Staphylococcal Skin Toxin Levels in Patients with Atopic Dermatitis", Principal investigator: Donald YM Leung, MD, PhD, 5/1/93-4/30/94. Total Direct Costs: \$20,400.

12. National Institutes of Health, Heart, Lung and Blood Institute (5R01HL37260-06) "Pathogenesis and Etiology of Kawasaki Syndrome". Principal investigator: Donald YM Leung, MD, PhD, 12/1/91-11/30/94. Total Direct Costs: \$288,39
13. GenDerm Corp. "Use of Doxepin HCL in Pediatric Atopic Dermatitis." Principal investigator: Donald YM Leung, MD, PhD, 2/13/95-11/3/95. Total Direct Costs: \$26,000.
14. National Institute of Arth/Musculosk/Skin Dis (1R01AR41256) (NCT02910791). "Role of bacterial toxins in human skin diseases." Principal investigator: Donald YM Leung, MD, PhD, 7/1/92-6/30/95. Total Direct Costs: \$317,511.
15. Fujisawa USA, Inc. A Randomized, Dose Finding, Double Blind Comparison of Topically Applied Tacrolimus vs Vehicle in Pediatric Patients with Atopic Dermatitis. Principal investigator: Donald YM Leung, MD, PhD, 2/15/96-7/30/96. Total Direct Costs: \$45,000.
16. Astra, Inc. Effect of Budesonide in Difficult to Control Asthma. Principal investigator: Donald YM Leung, MD, PhD, 6/1/95-11/30/96. Total Direct Costs: \$20,000.
17. National Institutes of Health, Heart, Lung and Blood Institute "Inflammation and Airways Reactivity in Asthma". Principal investigator: Gary Larsen, MD, #2: Mechanisms in Steroid Resistant Asthma. Project Leader: Donald YM Leung, MD, PhD, 7/1/91-6/30/96. Total Direct Costs: \$776,000.
18. National Institutes of Health, National Center for Research Resources (3M01RR00051-33S2). Principal investigator: Richard Krugman, MD, "General Clinical Research Center." Associate Program Director: Donald YM Leung, MD, PhD, 7/1/94-11/30/96. Total Direct Costs: \$2,991,282.
19. Fujisawa USA, Inc. An open-label, long-term, follow-up study to evaluate the safety of topically applied tacrolimus ointment for the treatment of atopic dermatitis, protocol 97-0-038. Principal investigator: Donald YM Leung, MD, PhD, 3/15/98-4/1/99. Total Direct Costs: \$20,000.
20. Glaxo, Inc., "The Effect of Fluticasone on Glucocorticoid Receptor Binding Affinity in Asthma," Principal investigator: Donald YM Leung, MD, PhD, 7/1/95-7/31/96. Total Direct Costs: \$32,000.
21. Fujisawa USA, Inc. A phase III, randomized double-blind study comparing topically applied tacrolimus ointment vs vehicle ointment in pediatric patients with atopic dermatitis, protocol 97-0-037. Principal investigator: Donald YM Leung, MD, PhD, 9/1/97-7/30/98. Total Direct Costs: \$48,000.
22. Fujisawa USA, Inc. A phase III, randomized double-blind study comparing topically applied tacrolimus ointment vs vehicle ointment in adult patients with atopic dermatitis, protocol 97-0-035. Principal investigator: Donald YM Leung, MD, PhD, 9/1/97-7/30/98. Total Direct Costs: \$40,000.
23. National Institute of Allergy and Infectious Diseases (R03 AI 41022). Principal investigator: Erwin Gelfand, MD, Mechanisms Underlying Steroid Reduction in Inner-City Minorities with Severe Asthma Treated with Intravenous Immunoglobulin. Co-investigator: Donald YM Leung, MD, PhD, 9/1/96-8/31/98. Total Direct Costs: \$98,506.
24. Estée Lauder, Inc. Effect of Lauricidin on Staphylococcal Colonization in Atopic Dermatitis. Principal investigator: Donald YM Leung, MD, PhD, 5/1/98-8/30/99. Total Direct Costs: \$60,000.
25. National Institute of Allergy and Infectious Diseases (T32AI07365). Principal investigator: Anthony Hayward, MD Training Program in Pediatric Immunology. Co-investigator: Donald YM Leung, MD, PhD, 9/1/96-8/31/99. Total Direct Costs: \$579,058.
26. National Institutes of Health, Heart, Lung and Blood Institute (T32HL07670). Principal investigator: Gary Larsen, MD, Academic Training in Pediatric Pulmonary Diseases. Co-investigator: Donald YM Leung, MD, PhD, 7/15/94-6/30/99. Total Direct Costs: \$887,400.
27. National Institutes of Health, Heart, Lung and Blood Institute (5 R01 HL37260-09) "Pathogenesis and Etiology of Kawasaki Syndrome." Principal investigator: Donald YM Leung, MD, PhD, 12/1/94-11/30/99. Total Direct Costs: \$685,856.
28. Estée Lauder, Inc. Skin microbiology, Principal Investigator: Donald YM Leung, MD, PhD, 4/10/31-10/31/00. Total Direct Costs: \$43,286.
29. National Institute of Arth/Musculoskel/Skin Disease (1R01AR41256) (NCT02910791). "Role of bacterial toxins in human skin diseases." Principal investigator: Donald YM Leung, MD, PhD, 7/1/95-6/30/00. Total Direct Costs: \$572,587.
30. Fujisawa USA, Inc. Tacrolimus in pediatric atopic dermatitis, Principal Investigator: Donald YM Leung, MD, PhD, 7/25/97-03/13/00. Total Direct Costs: \$48,384.
31. Fujisawa USA, Inc. Tacrolimus in adult atopic dermatitis. Principal Investigator: Donald YM Leung, MD, PhD, 7/25/97-07/24/00. Total Direct Costs: \$29,092.

32. American Lung Association "Asthma Research Center." Principal investigator: Richard Martin, MD. Factors Contributing to Impaired Glucocorticoid Responsiveness in Chronic Asthma. Project Leader: Donald YM Leung, MD, PhD, 7/1/96-6/30/01. Total Annual Direct Costs: \$454,545.
33. National Institutes of Health, Heart, Lung and Blood Institute (PO1-HL-36577). "Inflammation and Airways Reactivity in Asthma". Principal investigator: Gary Larsen, MD, Mechanisms in Steroid Resistant Asthma. Project Leader: Donald YM Leung, MD, PhD, 7/1/96-6/30/01. Total Annual Direct Costs: \$1,097,511.
34. National Institutes of Health, National Center for Research Resources (3M01RR00051). Principal investigator: Richard Krugman, MD, "General Clinical Research Center." Associate Program Director: Donald YM Leung, MD, PhD, 12/1/96-1/30/01. Total Direct Costs: \$25,510,048.
35. Tanox, Inc. Effect of Hu901 anti-IgE on Peanut Allergy. Principal investigator: Donald YM Leung, MD, PhD, 4/1/99-9/30/01. Total Direct Costs: \$340,000.
36. Novartis: anti-IgE in atopic dermatitis. Principal Investigator: Donald YM Leung, MD, PhD, 9/07/00-04/11/02. Total Direct Costs: \$23,332.
37. Novartis: Protocol ASM in steroid resistant atopic dermatitis. Principal Investigator: Donald YM Leung, MD, PhD, 7/10/01-7/11/03. Total Direct Costs: \$32,307.
38. Tanox, Inc. Protocol TNX 901 in open label extension. Principal Investigator: Donald YM Leung, MD, PhD, 7/10/02-3/07/03. Total Direct Costs: \$61,371.
39. Novartis lab services, analysis of steroid function in atopic dermatitis Principal Investigator: Donald YM Leung, MD, PhD, 9/11/02-09/10/03. Total Direct Costs: \$121,500.
40. National Institutes of Health, Heart, Lung and Blood Institute (5R01HL37260-12) MERIT AWARD. "Pathogenesis and Etiology of Kawasaki Syndrome." Principal investigator: Donald YM Leung, MD, PhD, 12/1/99-11/30/04. Total Direct Costs: \$785,421.
41. Glaxo-Wellcome: Salmeterol in glucocorticoid receptor function, Principal Investigator: Donald YM Leung, MD, PhD, 8/27/01-8/26/04. Total Direct Costs: \$133,750.
42. Novartis: Protocol ASM, Principal Investigator: Donald YM Leung, MD, PhD, 7/19/04-6/24/04. Total Direct Costs: \$29,934.
43. Nucryst 32101 Protocol 32101, Principal Investigator: Donald YM Leung, MD, PhD, 11/20/03-11/20/04. Total Direct Costs: \$66,122.
44. National Institute of Arth/Musculoskel/Skin Dis (1R01AR41256) (NCT02910791). "Role of bacterial toxins in human skin diseases." Principal investigator: Donald YM Leung, MD, PhD, 6/01/00-5/31/05. Total Direct Costs: \$705,000.
45. Zymogenetics. Role of IL-31 in Atopic Dermatitis. Principal Investigator: Donald YM Leung, MD, PhD, 6/21/04-6/20/05. Total Direct Costs: \$102,000.
46. Genentech, Inc. Protocol Q2788G. Role of Xolair in Peanut Allergy. Site Leader: Donald YM Leung, MD, PhD, 8/10/04-8/9/06. Total Direct Costs: \$155,414.
47. NIH/NIAMS 5 R21 AR051634-02. Principal Investigator, Donald YM Leung. "Immunomodulation of vaccinia-induced antimicrobial peptides", 4/01/04-5/31/06. Total Direct Costs:
48. NIH, National Center for Research Resources (3M01 RR00051). Principal investigator: Richard Krugman, MD "General Clinical Research Center". Associate Program Director: Donald YM Leung, MD, PhD, 12/1/01-11/30/06. Total Direct Costs: \$8,500,000.
49. NIH/NIAID (1R01AI62698). JM Spergel (PI) Denver site: Donald YM Leung, MD, PhD, CHOP (Children's Hospital of Philadelphia): Effect of Pimecrolimus on T Cell Responses in Atopic March, 08/15/05-12/31/08. Total Direct Costs: \$130,075
50. Novartis: "A pilot ex vivo study to evaluate the effect of Pimecrolimus on antimicrobial peptide expression and vaccinia virus growth in perilesional skin cultures of patients with atopic dermatitis" Protocol # ASM981CUS29. Principal Investigator: Donald YM Leung, MD, PhD, 11/01/05-8/23/09. Total Direct Costs: \$87,429.
51. NIH/NIAID (1U19AI066738-01)./ HA Sampson (PI-Mt. Sinai); Denver Site Leader: Donald YM Leung. Immunology of Peanut Allergy and its Treatment: A prototype, 07/01/05-6/30/10. Total Direct Costs: \$16,430,158.
52. NIH/NIAID (HHSN266200400030C, ADB Contract #N01-AI-40030) Project Leader: Donald YM Leung, MD, PhD, Raif Geha (PI) "The Atopic Dermatitis Vaccinia Network: Animal Studies consortium", 4/01/04-3/31/10. Total Direct Costs: \$10,031,776.

53. NIH/NIAID (HHSN26620040029C, ADB Contract #N01-AI-40029) Leung (PI and Project Leader) "The Atopic Dermatitis Vaccinia Network: Clinical Studies consortium." 4/01/04-3/31/10. Total Direct Costs: \$20,723,556.
54. NIH/NIAMS (1R01AR41256) (NCT02910791). "Role of bacterial toxins in human skin diseases." Principal investigator: Donald YM Leung, MD, PhD, 08/01/05-07/31/10. Total Direct Costs: \$1,125,000.
55. NIH (R01HL090982) Rand Sutherland (PI) "Obesity, Inflammation and Response to Therapy in Asthma", Co-Investigator: Donald YM Leung, MD, PhD, 7/01/07-6/30/2011. Total Direct Costs: \$983,585,
56. National Institutes of Health, Heart, Lung and Blood Institute (PO1-HL-36577). "Inflammation and Airways Reactivity in Asthma." Principal Investigator: Erwin Gelfand, MD, Mechanisms in Steroid Resistant Asthma, Project Leader: Donald YM Leung, MD, PhD, 7/01/01-4/30/12. Total Direct Costs: \$1,090,621.
57. Genentech: Identify Biomarkers of Steroid Resistant Asthma. Protocol #Q3942s, Principal Investigator: Donald YM Leung, MD, PhD. 9/01/06 - 4/12/12. Total Direct Costs: \$157,180.
58. NIH/NIAID (1R01AI070140-01A1) Mechanisms of Steroid Resistant Asthma. Principal Investigator: Donald YM Leung, MD, PhD, 7/03/06-6/30/12. Total Direct Costs: \$1,593,862.
59. DiaSorin: Proof of Concept Study of Serum Vitamin D Levels and Markers of Severity of Asthma in Children and Adults, Principal Investigator: Donald YM Leung, 1/0/10-4/01/12. Total Direct Costs: \$196,000.
60. NIH/NHLBI (PO1-HL-36577) Mechanisms of Corticosteroid Insensitive Asthma. Principal Investigator: Erwin Gelfand, MD, Project Leader: Donald YM Leung, MD, PhD, 1/01/07-4/30/12. Total Direct Costs: \$9,693,102.
61. KIST: Effects of Plant Extracts in Skin Cells, 6/1/13-12/31/13. Total Direct Costs:
62. NIH/NIAID (NCT01737710) ADRN - A Randomized Open Label Mechanistic Study in Atopic Dermatitis to Assess the Immunogenicity of Fluzone® Intradermal and Intramuscular Vaccines. PI: Donald Leung, MD, PhD. 10/2012 – 5/2013.
63. CoFar/NIH (NCT00461097) Oral desensitization to egg with subsequent induction of tolerance, egg allergy. PI: Donald Leung, MD, PhD. 12/2010 – 12/2013.
64. EpiTop Inc.: Role of Phytoncides in Skin Disease. Principal investigator: Donald YM Leung, MD, PhD, 3/1/12-4/30/14. Total Direct Costs: \$260,727.
65. NIH/NIAID (2R56AI070140-06) Mechanisms of Steroid Resistant Asthma. Principal Investigator: Donald YM Leung, MD, PhD, 7/01/12-6/30/14. Total Direct Costs: \$275,212.
66. FiteBac Skin Care. Use of FiteBac Hand Sanitizer for Treatment of Hand Dermatitis. Principal investigator: Donald YM Leung, MD, PhD, 3/1/10-4/30/14. Total Direct Costs: \$110,000.
67. NIH/NIAID (HHSN272200900052C) and N01-AI-90052. Inner City Asthma Consortium (ICAC): Immunologic Approaches to Reduce Asthma. WW Busse (PI) Leung DY (Co-I, subcontractor), 6/1/11-2/28/14. Total Direct Costs: \$649,162.
68. NIH/NIAID (NCT02115399) ADRN Barrier/Immunoprofiling Exploratory Pilot Study (ADRN-04). PI: Donald Leung, MD, PhD. 4/2014 – 6/2015.
69. NIH/NIAID (HHSN272201000020C) The Atopic Dermatitis Research Network. PI and Project Leader: Donald YM Leung, MD, PhD 7/01/10-6/30/15. Total Direct Costs: \$27,263,711.
70. NIH/NIAMS (1R01AR41256) (NCT02910791). Role of bacterial toxins in human skin diseases. Principal Investigator: Donald YM Leung, MD, PhD, 8/01/10-7/31/15. Total Direct Costs: \$980,100.
71. NIH/NIAID (NCT01429311) ADRN - Interferon Responses in Eczema Herpeticum - Investigation of Reduced Interferon Responses in Peripheral Blood Mononuclear Cells of Participants With Atopic Dermatitis and a History of Eczema Herpeticum (ADRN-01). PI: Donald Leung, MD, PhD. 4/2011 – 1/2016.
72. FARE Network Center of Food Allergy Excellence. Director: Donald Leung, MD, PhD. 7/1/15-6/30/16; Total Direct Costs: \$125,000.
73. NIH (PA-14-077) ADRN Administrative Supplement. Principal Investigator: Donald YM Leung, MD, PhD. 7/1/16-6/30/17. Total Direct Costs: \$542,341.
74. NIH/NIAID (1U19AI066738-01) HA Sampson (PI-Mt. Sinai); Denver Site Leader: Donald YM Leung MD, PhD. Immunobiology of Food Allergy and its Treatment, 7/1/10–6/30/17. Total Direct Costs: \$1,631,699.

75. NIAID (NCT03168113) ADRN - ADRN-10: Atopic Dermatitis and Food Allergy - Skin Barrier in Childhood Atopic Dermatitis With and Without Food Allergy (ADRN-10). PI: Donald Leung, MD, PhD. 6/12/2017 – 1/31/2018.
76. Pfizer (W1215023) Rheuma Derma IBD. Principal Investigator: Donald YM Leung, MD, PhD. 7/1/16-12/30/18. Total Direct Costs: \$108,089.
77. NIH/NIAID (NCT01494142) ADRN - Registry for the Atopic Dermatitis Research Network (ADRN – 02). PI: Donald Leung, MD, PhD. 8/2011 – 2/7/2018.
78. DBV Pepites (14366). Principal Investigator: Donald YM Leung, MD, PhD. 4/4/16-4/3/18. Total Direct Costs: \$42,143.
79. CoFar/NIH (NCT01904604) Peanut Epicutaneous Phase II Immunotherapy Clinical Trial. PI: Donald Leung, MD, PhD. 9/2013 – 8/21/2018.
80. AstraZeneca Pharmaceuticals (AZD7624) Co-principal Investigator: Donald YM Leung, MD, PhD; Co-Investigator: Elena Goleva, PhD. Expires 12/31/18.
81. Incyte Corporation. An Open Label Pilot Pharmacokinetic Study of INCB018424 Phosphate Cream in Pediatric Subjects with atopic dermatitis. PI: Donald YM Leung, MD, PhD. Total direct costs: \$43,691. July 2017-present
82. FARE Network Center of Food Allergy Excellence. Director: Donald Leung, MD, PhD. 7/1/16-6/30/18; Total Costs: \$234,000.
83. NIH/NCRR (UL1RR025780). CCTSI -Clinical Translational Research Center. Principal Investigator: Ron Sokol, MD; Co-Investigator: Donald YM Leung, MD, PhD 11/1/13-4/30/18. Total Direct Costs: \$3,796,301.
84. MedImmune. Epidermal Signatures in Atopic Dermatitis. PI: Donald Leung, MD, PhD. 2/1/16-1/30/19. Total Direct Costs: \$350,000.
85. NIAID (NCT03151148) ADRN - Targeted Microbiome Transplant in Atopic Dermatitis. PI: Donald Leung, MD, PhD. 9/28/2017 – 6/7/2019.
86. NIH/NIAID (5UM1A1109565-06) (NCT04180644) Pre-SunBEAm Pilot Study 2: Evaluation of novel skin tape transcriptome methods in children with atopic dermatitis and healthy controls. Principle Investigator: Donald YM Leung MD, PhD. 1/1/20-6/30/20. \$85,829.
87. NIH/NIAID (1U19A117673-01) Overall Atopic Dermatitis Research Network. PI and Project Leader: Donald YM Leung, MD, PhD, 4/1/15-3/31/20. Total Direct Costs: \$22,553,081.
88. NIAID/Rho Federal Systems Division, Inc. (NCT03038932) Etiology of Eczema Herpeticum (EH). PI: Donald Leung, MD, PhD. 2/22/2017 – 11/24/2020.
89. Pharma-Incyte (NCT03257644) A Pharmacokinetic Study of Ruxolitinib Phosphate Cream in Pediatric Subjects With Atopic Dermatitis. PI: Donald Leung, MD, PhD. 9/21/2017 – 10/7/2020.
90. NIH/NIAID (5UM1A1109565-07) (NCT04226092) Pre-SunBEAm Pilot Study 1: Comparative Assessment of TEWL Measurements from AquaFlux vs. Handheld GPSkin Pro in Young Children with and without AD. Principle Investigator: Donald YM Leung MD, PhD. 2/1/20-6/30/20. \$19,127.
91. National Jewish Health (NCT04198753) Skin characteristics of food allergic pediatric patients with and without history of eczema. PI: Donald Leung, MD, PhD. Co-I: Christine Cho. 1/23/2020 – 10/6/2020.
92. MedImmune LLC (NCT02680405) Epidermal Signatures in Patients with Atopic Dermatitis. PI: Donald Leung, MD, PhD. 4/2016 – 12/2020.
93. Pharma-Incyte (NCT03745638) TRuE AD1 - An Efficacy and Safety Study of Ruxolitinib Cream in Adolescents and Adults With Atopic Dermatitis. PI: Donald Leung, MD, PhD. 12/20/2018 – 12/1/2020.
94. NIH/NIAMS (5R01AR41256) (NCT02910791). Role of Bacterial Toxins in Human Skin Diseases. Co-Principal Investigator: Donald YM Leung, MD, PhD, 4/1/16-3/31/21. Total Direct Costs: \$208,888.
95. Genentech (CoFAR11/LM40767-JHU) Supplement to New Horizons in the Prevention and Treatment of Food Allergy. PI: Robert Wood; Site PI: Donald Leung, MD, PhD. 3/1/20 – 2/28/21. \$174,597.
96. NIH/NIAMS (5R01AR41256-25) (NCT02910791). Role of Bacterial Toxins in Human Skin Diseases. Principal Investigator: Donald YM Leung, MD, PhD, 4/1/16-3/31/21. Total Direct Costs: \$1,334,011.

97. NIH/NIAMS (5R01AR41256-27) (NCT02910791) The Role of Bacterial Toxins in Human Skin Disease. PI: Elena Goleva, PhD and Co-Principal Investigator: Donald YM Leung, MD, PhD. 7/17/1992 – 03/31/2021. Federal Direct Costs: \$208,888.
98. NIAID/NIH (3UM1AI151958-01S1) ADRN LC – Supplement – COVID-19. Principal Investigator: Donald YM Leung, MD, PhD. 4/30/20 – 3/31/21. Total Direct Costs: \$1,869,010.
99. NIAID/NIH (5U19AI117673-05) Overall Atopic Dermatitis Research Network. PI and Project Leader: Donald YM Leung, MD, PhD, 4/1/15-3/31/21. Federal Direct Costs: \$6,744,187.
100. NIAID/Regeneron Pharmaceuticals/Sanofi/Atopic Dermatitis Research Network/Rho Federal Systems Division, Inc. (NCT03389893) Effect of Dupilumab (Anti-IL4R α) on the Host-Microbe Interface in Atopic Dermatitis. PI: Donald Leung, MD, PhD. 1/4/2018 – 6/14/2021.
101. Sanofi (NCT04447417) Dupilumab Skin Barrier Function Study in Atopic Dermatitis (BALISTAD). PI: Donald Leung, MD, PhD. 7/16/2020 – 6/2021. Total Direct Costs: \$988,849.
102. National Jewish Health (NCT04445298) Skin Barrier Assessment in Pregnancy and at Birth. PI: Donald Leung, MD, PhD. Co-I: Jessica Hui. 8/3/2020 – 7/1/2022.
103. Sanofi (NCT04718870) Dupilumab-Pediatric Skin Barrier Function and Lipidomics Study in Patients With Atopic Dermatitis (PELISTAD). PI: Donald Leung, MD, PhD. 01/22/2021 - 08/12/2022. Total Direct Costs: \$1,407,589.
104. National Jewish Health () Hand Sanitizer Effects on the Skin Barrier. PI: Donald Leung, MD, PhD. Co-I: Jessica Hui, MD. 12/1/2020 – 8/20/2021.
105. National Jewish Health (NCT04606615) ADRN 3 CRC - Skin Barrier Abnormalities and Oxidative Stress Response. PI: Donald Leung, MD, PhD. Co-I: Elena Goleva, PhD 10/16/2020 – 12/31/2022.
106. NIH/NIAID (1UM2AI130836-02 supplement) New Horizons in the Prevention and Treatment of Food Allergy - Birth Cohort Study. PI: Robert Wood; Site PI: Donald Leung, MD, PhD, 09/1/18-8/31/23. Total Direct Costs: \$667,914.
107. ITN/NIH/NIAID (2UM1AI109565-08) (NCT04761822) Systemic Allergic Reactions to SARS-CoV-2 Vaccination. PI: Gerald Nepom, MD, PhD; Site PI: Donald Leung, MD, PhD. 10/01/2021 – 09/30/2023. Total Direct Costs: \$585,150.
108. NIH/NCATS (UL1TR002535) CCSTI-Clinical Translational Research Center. Principal Investigator: Ron Sokol, MD; Co-Investigator: Donald YM Leung, MD, PhD. 5/1/18-12/30/23. Total Direct Costs: \$410,000.
109. CoFAR/NIH (NCT03881696) Omalizumab as Monotherapy and as Adjunct Therapy to Multi-Allergen OIT in Food Allergic Participants (OutMATCH). PI: Donald Leung, MD, PhD. 7/22/2019 – 12/2023.
110. NIH/NIAID (3UM1AI151958) Deciphering heterogeneity of airway molecular response and risk for SARS-CoV-2 infection in the Human Epidemiology and Response to SARS-CoV-2 (HEROS) Cohort. PI: Donald, Leung. 04/09/20 – 03/31/2. Total award amount \$ 1,599,999.
111. NIH/NIAID (1UM2AI30836) New Horizons in the Prevention and Treatment of Food Allergy. PI: Robert Wood; Site PI: Donald Leung, MD, PhD. 03/1/17- 2/29/24. Total Direct Costs: \$858,465.
112. NIH/NIAID (1UM1AI173380-01) Systems Biology of Early Atopy (SunBEAM) Analysis & Bioinformatics Center. PI: Bunyavanich, S. 12/02/2022 – 12/31/2027. Total Cost \$15,201,727.
113. Sanofi (NCT04718870) Dupilumab-Pediatric Skin Barrier Function and Lipidomics Study in Patients With Atopic Dermatitis (PELISTAD). PI: Donald Leung, MD, PhD. 01/22/2021 - 06/30/2024. Total Direct Costs: \$1,407,589.
114. NIH/NIAID (1UM2AI130836-02) New Horizons in the Prevention and Treatment of Food Allergy. PI: Robert Wood; Site PI: Donald Leung, MD, PhD. 03/1/17- 2/29/24. Total Direct Costs: \$174,597.
115. NIH/NIAID (5UM1AI130780-04) CoFAR Clinical Research Unit. Principal Investigator: Donald YM Leung, MD, PhD. 3/1/17-2/29/24. Federal Direct Costs: \$148,264.
116. Genentech (COFAR-ML-40767-JHU-03) Omalizumab as Monotherapy and as Adjunct Therapy to Multi-Allergen OIT in Food Allergic Participants (OutMATCH). PI: Donald Leung, MD, PhD. 3/01/2020 – 02/29/2024. Total Direct Costs: \$174,597.
117. Sanofi (NCT04447417) Dupilumab Skin Barrier Function Study in Atopic Dermatitis (BALISTAD). PI: Donald Leung, MD, PhD. 6/25/2020 – 6/30/2024. Total Direct Costs: \$1,245,116.
118. NIAID/ NIAMS/NIH (1U01AR077511-01) Identification of pathways to mitigate Immune-Related Adverse Events with Cancer Immunotherapy. Principle Investigator: Jeffrey A Kern, MD, Donald

- YM Leung MD, PhD, and Mario Lacouture. 3/01/2020 – 02/28/2025. Federal Direct Costs: \$457,971.
119. Sanofi (NCT04718870) Dupilumab Pediatric Skin Barrier Function and Lipidomic study in patients with atopic Dermatitis (PELISTED Extension). 05/23/2023 – 09/30/2026.
 120. NIH (1UM1AI151958-01) Atopic Dermatitis Research Network Leadership Center. Principal Investigator: Donald YM Leung, MD, PhD. 4/10/20 – 3/31/27. Federal Direct Costs: \$1,945,211.
 121. NIAID/NIH (1UM1AI151958) Atopic Dermatitis Research Network Leadership Center, SunBEAm Supplement an early Introduction Supplement. PI: Donald, Leung. 04/09/20 – 03/31/27. \$ Total award \$ 23,562,873.
 122. NIH/NIAID (1U01AI152037-01) Atopic Dermatitis Research Network (ADRN) Clinical Research Center. PI: Elena Goleva, PhD and Co-Principal Investigator: Donald YM Leung, MD, PhD. 4/10/2020 – 03/31/2027. Federal Direct Costs: \$200,999.
 123. NIH/NIAID (1R01AI147462-01A1) SEAL (Stopping Atopic dermatitis and Allergy) Study: Prevent allergy by enhancing the skin barrier. Co-Principal Investigator: Donald YM Leung, MD, PhD. 08/14/2020 – 05/31/2027. \$788,494. Clinical Trial number: NCT03742414.
 124. CoFar/NIH/NIAID/ Rho Federal Systems Division, Inc. (NCT04798079) Systems Biology of Early Atopy. PI: Donald Leung, MD, PhD. 3/18/2021 – 6/2027.
 125. NIAID/NIH (1U01AI152037) Atopic Dermatitis Research Network Clinical Research Center. PI: Donald, Leung. 04/10/2020 – 03/31/2027.
 126. NIH/NCATS (1UM1TR004399) CCSTI-Clinical Translational Research Center. Principal Investigator: Ron Sokol, MD; Co-Investigator: Donald YM Leung, MD, PhD. 12/1/23-11/30/30. Total Direct Costs: \$660,700

XI. BIBLIOGRAPHY (Selected)

A. Peer reviewed journal articles (H index = 140)

1. **Leung DYM**, Glagov S, Mathews MB. Cyclic stretching stimulates synthesis of matrix components by arterial smooth muscle cells *in vitro*. Science. 1976;191:475-7. PMID: 128820.
2. **Leung DYM**, Glagov S, Mathews M. Elastin and collagen accumulation in rabbit ascending aorta and pulmonary trunk during postnatal growth: correlation of cellular synthetic response with medial tension. Circ Res. 1977;41(3):316-23. PMID: 890887.
3. **Leung DYM**, Glagov S, Mathews M. A new in vitro system for studying cell response to mechanical stimulation. Different effects of cyclic stretching and agitation on smooth muscle cell biosynthesis. Exp Cell Res. 1977;109:285-98. PMID: 334559.
4. **Leung DYM**, Rhodes AR, Geha RS. Enumeration of T cell subsets in atopic dermatitis using monoclonal antibodies. J Allergy Clin Immunol. 1981;67(6):450-5. PMID: 6980906.
5. Geha RS, Reinherz EL, **Leung DYM**, Schlossman S, Rosen FS. Deficiency of suppressor T cells in the hyperimmunoglobulin E syndrome. J Clin Invest. 1981;68(3):783-91. PMCID: PMC370861.
6. **Leung DY**, Geha RS. Immune mechanisms in atopic dermatitis. Springer Semin Immunopathol. 1981;4(3):275-91. PMID: 7041302.
7. **Leung DYM**, Parkman R, Wood N, Rhodes AR, Geha RS. Cell-mediated cytotoxicity against skin fibroblasts in atopic dermatitis. J Immunol. 1982;128(4):1736-41. PMID: 7061848.
8. **Leung DYM**, Siegel RL, Grady S, Krensky A, Meade R, Reinherz EL, Geha RS. Immunoregulatory abnormalities in mucocutaneous lymph node syndrome. Clin Immunol Immunopathol. 1982;23(1):100-12. PMID: 7047030.
9. Twarog FJ, **Leung DYM**. Anaphylaxis to a component of isoetharine (sodium bisulfite). JAMA. 1982;248(16):2030-1. PMID: 7120631.
10. Saryan JA, Rappaport J, **Leung DYM**, Parkman R, Geha RS. Regulation of human immunoglobulin E synthesis in acute graft versus host disease. J Clin Invest. 1983;71(3):556-64. PMCID: PMC436903.

11. Saryan JA, **Leung DY**, Geha RS. Induction of human IgE synthesis by a factor derived from T cells of patients with hyper IgE states. Monogr Allergy. 1983;18:256-8. PMID: 6606120.
12. Sheehy MJ, Quinteri FB, **Leung DYM**, Geha RS, Dubey DP, Limmer CE, Yunis EJ. A human large granular lymphocyte clone with material killer-like activity and T cell-like surface markers. J Immunol. 1983;130:524-6. PMID: 6600239.
13. Saryan JA, **Leung DYM**, Geha RS. Induction of human IgE synthesis by a factor derived from T cells of patients with hyper IgE states. J Immunol. 1983;130:242-7. PMID: 6292303.
14. **Leung DYM**, Bhan AK, Schneeberger EE, Geha RS. Characterization of the mononuclear cell infiltrate in atopic dermatitis using monoclonal antibodies. J Allergy Clin Immunol. 1983;71:47-56. PMID: 6337197.
15. **Leung DY**, Saryan JA, Frankel R, Lareau M, Geha RS. Impairment of the autologous mixed lymphocyte reaction in atopic dermatitis. J Clin Invest. 1983;72:1482-6. PMCID: PMC370432.
16. **Leung DY**, Wood N, Dubey D, Rhodes AR, Geha RS. Cellular basis of defective cell-mediated lympholysis in atopic dermatitis. J Immunol. 1983;130(4):1678-82. PMID: 6220063.
17. **Leung DY**, Chu ET, Wood N, Grady S, Meade R, Geha RS. Immunoregulatory T cell abnormalities in mucocutaneous lymph node syndrome. J Immunol. 1983;130(5):2002-4. PMID: 6220072.
18. Sheehy MJ, Agostina RM, Quinteri FB, **Leung DY**, Geha RS, Yunis EJ. Morphology of human T lymphocyte clones. Lab Invest. 1983;48(5):549-55. PMID: 6601742.
19. Geha R, Parkman R, **Leung DY**, Keohan ML, Dunn MJ, Rappaport J. Immunoregulatory abnormalities following bone marrow transplantation. J Exp Clin Cancer Res. 1983;2:83-8.
20. **Leung DY**, Brozek C, Frankel R, Geha RS. IgE specific suppressor factors in normal human serum. Clin Immunol Immunopathol. 1984;32:339-50. PMID: 6467688.
21. Butrus SI, **Leung DY**, Kenyon KR, Gellis S, Baum J, Abelson MB. Vernal conjunctivitis in the hyperimmunoglobulinemia E syndrome. Ophthalmology. 1984;91:1213-6. PMID: 6240007.
22. Young MC, **Leung DY**, Geha RS. Production of IgE potentiating factor by human T cell lines bearing Fc receptors for IgE. Eur J Immunol. 1984;14:871-8. PMID: 6237918.
23. Young MC, Sabbah R, Harfi H, **Leung DY**, Geha RS. A T cell lymphoma secreting an IgE specific enhancing factor. J Clin Invest. 1985;75:1977-82. PMCID: PMC425557.
24. **Leung DY**. Eczema as a model for the study of cellular interaction. Pediatr Pathol. 1984;2:413.
25. **Leung DY**, Geha RS. Regulation of IgE synthesis in man. Clin Immunol Rev. 1984;3:1-24. PMID: 6237817.
26. **Leung DY**, Geha RS. Regulation of human IgE synthesis. J Invest Dermatol. 1985;85:155-160. PMID: 2989377.
27. Young MC, **Leung DY**, Geha RS. Secretion of IgE-specific potentiating factors by human Fc-epsilon R+ T cell lines. Int Arch Allergy Appl Immunol. 1985;77(1-2):232-4. PMID: 3159683.
28. Katzen D, Chu E, Terhorst C, **Leung DY**, Gesner M, Miller RA, Geha RS. Mechanisms of human T cell response to mitogens: IL 2 induce IL 2 receptor expression and proliferation but not IL 2 synthesis in PHA-stimulated T cells. J Immunol. 1985;135:1840-5. PMID: 3926887.
29. Umetsu D, **Leung DY**, Jabara H, Geha RS. Differential requirements of B cells from normals and allergic subjects for the induction of IgE synthesis by an alloreactive T cell clone. J Exp Med. 1985;162:202-14. PMCID: PMC2187691.
30. **Leung DY**, Geha RS. Immunoregulatory abnormalities in atopic dermatitis. Clin Rev Allergy. 1986;4:67-86. PMID: 2938710.
31. **Leung DYM**, Geha RS. Control of IgE synthesis in man. J Clin Immunol. 1986;6:273-83. PMID: 2943758.

32. Geha RS, **Leung DYM**. Cellular abnormalities in patients with elevated IgE levels. J Allergy Clin Immunol. 1986;78(2):995-9. PMID: 3537090.
33. Katzen DR, Leiferman KM, Weller PF, **Leung DYM**. Hypereosinophilia and recurrent angioedema in a 2 1/2 year old girl. Am J Dis Child. 1986;140:62-4. PMID: 2934972.
34. **Leung DYM**, Frankel R, Wood N, Geha RS. Potentiation of human IgE synthesis by plasma IgE binding factors from patients with hyper IgE syndrome. J Clin Invest. 1986;77:952-7. PMCID: PMC423491.
35. **Leung DYM**, Young MC, Wood N, Geha RS. Induction of IgE synthesis in normal human B cells: Sequential requirements for activation by an alloreactive T cell clone and IgE potentiating factors. J Exp Med. 1986;163:713-23. PMCID: PMC2188045.
36. **Leung DYM**, Young MC, Geha RS. Induction of IgG and IgE synthesis in normal B cells by autoreactive T cell clones. J Immunol. 1986;136:2851-5. PMID: 2937838.
37. **Leung DYM**, Collins T, LaPierre LA, Geha RS, Pober JS. IgM antibodies present in the acute phase of Kawasaki syndrome lyse cultured vascular endothelial cells stimulated by gamma interferon. J Clin Invest. 1986;77:1428-35. PMCID: PMC424542.
38. Quinti I, Brozek C, Geha RS, **Leung DYM**. Circulating IgG antibodies to IgE in atopic syndromes. J Allergy Clin Immunol. 1986;77:586-94. PMID: 3958387.
39. Glodé MP, Brogden R, Joffe LS, Adinoff A, **Leung DYM**, Burns JC, Arlian LG. Kawasaki syndrome and house dust mite exposure. J Infect Dis. 1986;5:644-8. PMID: 3797297.
40. Young MC, Geha RS, Maksad KN, **Leung DYM**. Characterization of human T cell-derived IgE-potentiating factor. Eur J Immunol. 1986;16:1646. PMID: 3488913.
41. Newburger JW, Takahashi M, Burns JC, Beiser AS, Chung KJ, Duffy CE, Glodé MP, Mason WH, Reddy V, Sanders SP, Shulman ST, Wiggins JW, Hicks RV, Fulton DR, Lewis AB, **Leung DYM**, Waldman JD, Colton T, Rosen FS, Melish ME. Treatment of Kawasaki syndrome with intravenous gammaglobulin. N Engl J Med. 1986;315:341-6.
42. Burns JC, Wiggins JW, Toews WH, Newburger JW, **Leung DYM**, Wilson H, Glodé MP. Clinical spectrum of Kawasaki disease in infants younger than 6 months of age. J Pediatr. 1986;109:759-63. PMID: 3772656.
43. **Leung DYM**, Geha RS, Newburger J, Burns J, Fiers W, LaPierre LA, Pober JS. Two monokines, interleukin 1 and tumor necrosis factor render cultured vascular endothelial cells susceptible to lysis by antibodies circulating during Kawasaki Syndrome. J Exp Med. 1986;164:1958-72. PMCID: PMC2188474.
44. Burns JC, Geha RS, Schneeberger, Newburger J, Rosen FS, Glezen LS, Huang AS, **Leung DYM**. Polymerase activity in lymphocyte culture supernatants from patients with Kawasaki disease. Nature. 1986;323:814-6. PMID: 2430187.
45. **Leung DY**. Immunologic abnormalities in Kawasaki syndrome. Prog Clin Biol Res. 1987;250:159-65. PMID: 3501125.
46. Geha RS, **Leung DYM**. Regulation of the human allergic response. Int Arch Allergy Appl Immunol. 1987;82(3-4):389-91. PMID: 3553028.
47. **Leung DYM**, Geha RS. Regulation of the human IgE antibody response. Int Rev Immunol. 1987;2(1):75-91. PMID: 2976801.
48. **Leung DYM**, Burns J, Newburger J, Geha RS. Reversal of lymphocyte activation in vivo in the Kawasaki syndrome by intravenous gammaglobulin. J Clin Invest. 1987;79:468-72. PMID: 2433307.
49. **Leung DYM**, Schneeberger EE, Siraganian RP, Geha RS, Bhan AK. The presence of IgE on macrophages and dendritic cells infiltrating into the skin lesion of atopic dermatitis. Clin Immunol Immunopathol. 1987;42:328-37. PMID: 3549069.

50. **Leung DYM**, Geha RS. Clinical and immunologic aspects of the hyperimmunoglobulin E syndrome. Hematol Oncol Clin North Am. 1988;2(1):81-100. PMID: 3279022.
51. Lee BW, Geha RS, **Leung DYM**. IgE response and its regulation in allergic diseases. Pediatr Clin North Am. 1988;35(5):953-67. PMID: 3050837.
52. **Leung DYM**. Immunology of Kawasaki disease. ISI Atlas of Science. Immunology. 1988;1:49-52.
53. **Leung DYM**, Key L, Young MC, Van Deck M, Geha RS. Increased *in vitro* bone resorption by monocytes in the hyper-immunoglobulin E syndrome. J Immunol. 1988;140:84-8. PMID: 3422080.
54. **Leung DYM**, Ambrosino DM, Arbeit RD, Newton JL, Geha RS. Impaired antibody responses in the hyperimmunoglobulinemia E syndrome. J Immunol. 1988;81:1082-7.
55. Vercelli D, Jabara HH, Lee BW, Woodland N, Geha RS, **Leung DYM**. Human recombinant interleukin 4 induces Fc epsilon R2/CD23 on normal human monocytes. J Exp Med. 1988;167:1406-16. PMCID: PMC2188908.
56. **Leung DYM**, Moake JL, Havens PL, Kim M, Pober JS. Lytic anti-endothelial cell antibodies in hemolytic-uremic syndrome. Lancet. 1988;2:183-6. PMID: 2899661.
57. Brosius CL, Newburger JW, Burns JC, Hojnowski-Diaz P, Zierler S, **Leung DYM**. Increased prevalence of atopic dermatitis in Kawasaki disease. Pediatr Infect Dis J. 1988;7(12):863-6. PMID: 3211629.
58. Jabara HH, Ackerman SJ, Arai K, Vercelli D, Yokota T, Abrams J, Umetsu DT, de Vries J, **Leung DYM**, Geha RS. Induction of interleukin-4-dependent IgE synthesis and interleukin-5-dependent eosinophil differentiation by supernatants of a human helper T-cell clone. J Clin Immunol. 1988;8:437-46. PMID: 2975669.
59. Kisaki T, **Leung DYM**, Jardieu P, Geha RS, Ishizaka K. Regulatory effects of human IgE-binding factors in the IgE synthesis by human and rat lymphocytes. Eur J Immunol. 1988;18:1663-70. PMID: 3264529.
60. Geha RS, **Leung DYM**. Hyper Immunoglobulin E syndrome Immunodefec Rev. 1989;1:155-72. PMID: 2698640..
61. **Leung DYM**. Immunomodulation by IVIG in Kawasaki disease. J Allergy Clin Immunol. 1989;84:588-93.
62. **Leung DYM**. The immunologic effects of IVIG in Kawasaki disease. Int Rev Immunol. 1989;5:197-202. PMID: 8691053.
63. **Leung DYM**. The clinical and immunologic aspects of Kawasaki disease. Immunodefec Rev. 1989;1:261-71. PMID: 2698643.
64. **Leung DYM**, Cotran RS, Kurt-Jones E, Burns JC, Newburger JW, Pober JS. Endothelial activation in the pathogenesis of Kawasaki disease. Trans Assoc Am Physicians. 1989;102:131-8. PMID: 2484114.
65. Vercelli D, **Leung DYM**, Jabara HH, Geha RS. IL-4 dependent induction of IgE synthesis and CD23 expression by the supernatants of human helper T cell clone. Int Arch Allergy Appl Immunol. 1989;88:119-21. PMID: 2523353.
66. **Leung DYM**, Cotran RS, Kurt-Jones E, Burns JC, Newburger JW, Pober JS. Endothelial cell activation and high interleukin-1 secretion in the pathogenesis of acute Kawasaki disease. Lancet. 1989;2:1298-302. PMID: 2480498.
67. Burns JC, Huang AS, Newburger JW, Reinhart AL, Walsh MM, **Leung DYM**. Characterization of the polymerase activity associated with cultured peripheral blood mononuclear cells from patients with Kawasaki disease. Pediatr Res. 1990;27:109-12. PMID: 1690383.
68. **Leung DYM**. Immunologic aspects of Kawasaki disease. J Rheumatol. 1990;(suppl 24)17:15-8.
69. **Leung DYM**, Hirsch RL, Schneider L, Moody C, Takaoka R, Li SH, Meyerson LA, Mariam SG,

- Goldstein G, Hanifin JM. Thymopentin therapy reduces the clinical severity of atopic dermatitis. J Allergy Clin Immunol. 1990;85:927-33.
70. Vercelli D, Jabara HH, Cunningham-Rundles C, Abrams JS, Lewis DB, Meyer J, Schneider LC, **Leung DYM**, Geha RS. Regulation of immunoglobulin (Ig)E synthesis in the hyper-IgE syndrome. J Clin Invest. 1990;85(5):1666-71.
 71. Boguniewicz M, Jaffe H, Izu A, Sullivan MJ, York D, Geha RS, **Leung DYM**. Recombinant gamma interferon in treatment of patients with atopic dermatitis and elevated IgE levels. Am J Med. 1990;88:365-70.
 72. **Leung DYM**. Immune mechanisms in atopic dermatitis and relevance to treatment. Allergy Proc. 1991;12:339-46.
 73. **Leung DYM**. The potential role of cytokine-mediated vascular endothelial activation in the pathogenesis of Kawasaki disease. Acta Paediatrica Japonica. 1991;33:739-44.
 74. **Leung DYM**. Immunologic aspects of Kawasaki disease: Implications for pathogenesis and therapy. Clin Cardiol. 1991;14:11-5.
 75. Polla BS, **Leung DYM**, Saurat JH, Holgate S, Cordier J, Junod A. Poumon et Peau: de la cytopathologie a la clinique. Revue Medicale de la Suisse Romande. 1991;111:551-7.
 76. **Leung DYM**. New developments in Kawasaki disease. Curr Opin Rheumatol. 1991;3:46-55.
 77. Kamada M, Twarog FJ, and **Leung DYM**. A comparison of multiple versus single antibiotic sensitivity in pediatric patients. Allergy Proc. 1991;12:347-350.
 78. **Leung DYM**, Kelly CP, Boguniewicz M, Pothoulakis C, LaMont JT, Flores A. Treatment with intravenously administered gamma globulin of chronic relapsing colitis induced by clostridium difficile toxin. J Pediatr. 1991;118:633-7.
 79. **Leung DYM**, Pober JS, Cotran RS. Expression of endothelial-leukocyte adhesion molecule-1 in elicited late phase allergic reactions. J Clin Invest. 1991;87(5):1805-9.
 80. Abe J, Forrester J, Nakahara T, Lafferty JA, Kotzin BL, **Leung DYM**. Selective stimulation of human T cells with streptococcal erythrogenic toxins A and B. J Immunol. 1991;146:3747-50.
 81. **Leung DYM**. Immunoregulatory effects of IVIG in Kawasaki's disease and other autoimmune diseases. Clin Rev Allergy. 1992;10:93-104.
 82. **Leung DYM**. The immunoregulatory effects of IVIG in Kawasaki disease and other autoimmune diseases. Clin Rev Allergy. 1992;10(1-2):93-104.
 83. Nicol N, **Leung DYM**. Clinical aspects of atopic dermatitis. Am J Asthma Allergy. 1992;5:97-106.
 84. Boguniewicz M, **Leung DYM**. Adverse drug reactions to antibiotics. Pediatr Pulmonol. 1992;12:113-22.
 85. Polla BS, **Leung DYM**. Monocytes from patients with severe atopic dermatitis are primed for superoxide production. J Allergy Clin Immunol. 1992;89:545-51.
 86. Abe J, Kotzin BL, Jujo, K, Melish, ME, Glodé MP, Kohsaka, T, **Leung DYM**. Selective expansion of T cells expressing Vbeta2 and Vbeta8 in Kawasaki disease. Proc Natl Acad Sci USA. 1992;89:4066-70.
 87. Alvarez J, Surs W, **Leung DYM**, Iklé D, Gelfand EW, Szeffler SJ. Steroid resistant asthma: Immunologic and pharmacologic features. J Allergy Clin Immunol. 1992;89:714-21.
 88. **Leung DYM**. Immunopathology of atopic dermatitis. Springer Semin Immunopathol. 1992;13:427-40.
 89. Li SH, Chan SC, Toshitani A, **Leung DYM**, Hanifin JM. Effect of interleukin 4 on monocyte phosphodiesterase activity. J Invest Dermatol. 1992;99:65-70.
 90. Tollerud DJ, Weiss ST, **Leung DYM**. Elevated soluble interleukin-2 receptor levels in young healthy

- cigarette smokers. Int Arch Allergy Appl Immunol. 1992;97:25-30.
91. Jujo K, Renz H, Abe J, Gelfand EW, **Leung DYM**. Decreased gamma interferon and increased interleukin-4 production promote IgE synthesis in atopic dermatitis. J Allergy Clin Immunol. 1992;90:323-30.
 92. **Oppenheimer J, Nelson H, Bock SA, Christensen F, Leung DYM**. Treatment of peanut allergy with rush immunotherapy. J Allergy Clin Immunol. 1992;90(2):256-62.
 93. Kamada AK, **Leung DYM**, Gleason MC, Hill MR, Szeffler SJ. High-dose systemic glucocorticoid therapy in the treatment of severe asthma: a case of resistance and patterns of response. J Allergy Clin Immunol. 1992;90:685-7.
 94. Renz H, Or R, Domenico J, **Leung DYM**, Gelfand EW. Reciprocal regulatory effects of IL-4 on cell growth and immunoglobulin in Ig-secreting human B-cell lines. Clin Immunol Immunopathol. 1992;64:233-41.
 95. Renz H, Jujo K, Bradley, KL, Domenico J, Gelfand EW, **Leung DYM**. Enhanced IL-4 production and IL-4 receptor expression in atopic dermatitis and their modulation by interferon-gamma. J Invest Dermatol. 1992;99:403-8.
 96. Kamada AK, **Leung DYM**, Szeffler SJ. Steroid resistance in asthma: our current understanding. Pediatr Pulmonol. 1992;14:180-6.
 97. **Leung DYM**. Review of immunological and pharmacological aspects of atopic and contact eczema. J Invest Dermatol. 1992;99:666-7.
 98. **Abe J, Kotzin BL, Meissner C, Melish ME, Takahashi M, Fulton D, Romagne F, Malissen B, Leung DYM**. Characterization of T cell repertoire changes in acute Kawasaki disease. J Exp Med. 1993;177:791-6. PMID: PMC2190929
 99. **Leung DYM**. Mechanisms controlling the human IgE response: new directions in the therapy of allergic diseases. Pediatr Res. 1993;33:S56-S63.
 100. **Leung DYM**. Kawasaki disease. Curr Opin Rheumatol. 1993;5:41-50.
 101. Hanifin J, Schneider LC, **Leung DYM**, Ellis CN, Jaffe HS, Izu AE, Bucalo LR, Hirabayashi SE, Tofte SJ, Cantu GC, Milgrom H, Boguniewicz M, Cooper K. Recombinant interferon gamma therapy for atopic dermatitis. J Am Acad Dermatol. 1993;28:189-97.
 102. Jujo K, Renz H, Gelfand EW, **Leung DYM**. Pokeweed mitogen induces IgE synthesis in the presence of a blocking antibody to the interferon-gamma receptor. J Allergy Clin Immunol. 1993;91:1206-16.
 103. Martin RJ, Boguniewicz M, Henson JE, Celniker A, Williams, Giorno R, **Leung DYM**. The safety and effect of inhaled interferon gamma in normal human airways. Am Rev Respir Dis. 1993;148:1677-82.
 104. Hamilos DL, **Leung DYM**, Wood R, Meyers A, Stephens JK, Barkans J, Meng Q, Cunningham L, Bean DK, Kay AB, et al. Chronic hyperplastic sinusitis: association of tissue eosinophilia with mRNA expression of granulocyte-macrophage colony-stimulating factor and interleukin-3. J Allergy Clin Immunol. 1993;92:39-48.
 105. **Leung DYM**, Walsh P, Giorno R, Norris DA. A potential role for superantigens in the pathogenesis of psoriasis. J Invest Dermatol. 1993;100:225-8.
 106. Kotzin BL, **Leung DYM**, Kappler J, Marrack P. Superantigens and their potential role in human disease. Adv Immunol. 1993;54:99-166.
 107. Kamada AK, Szeffler SJ, **Leung DYM**. The growing problem of steroid-resistant asthma. Drug Ther. 1993;23:55-62.
 108. Kam JC, Szeffler SJ, Surs W, Sher ER, **Leung DYM**. Combination IL-2 and IL-4 reduces glucocorticoid receptor-binding affinity and T cell response to glucocorticoids. J Immunol.

1993;151(7):3460-6.

109. Boguniewicz M, Schneider LC, Milgrom H, Newell D, Kelly N, Tam P, Izu AE, Jaffe HS, Bucalo LR, **Leung DYM**. Treatment of steroid-dependent asthma with recombinant interferon-gamma. Clin Exp Allergy. 1993;23:785-90.
110. **Leung DYM**, Harbeck H, Bina P, Reiser RF, Yang E, Norris DA, Hanifin JM, Sampson HA. Presence of IgE antibodies to staphylococcal enterotoxins on the skin of patients with atopic dermatitis: evidence for a new group of allergens. J Clin Invest. 1993;92:1374-80. PMID: PMC288279
111. **Leung DYM**, Meissner HC, Fulton DR, Murray DL, Kotzin BL, Schlievert PM. Toxic shock syndrome toxin-secreting *Staphylococcus aureus* in Kawasaki syndrome. Lancet. 1993 Dec;342(8884):1385-88. PMID: 7901681
112. Abe J, Takeda T, Watanabe Y, Kobayashi N, **Leung DYM**, Kohsaka T. Evidence for superantigen production by isolates of *Yersinia pseudotuberculosis*. J Immunol. 1993;151:4183-88.
113. **Leung DYM**. Role of IgE in atopic dermatitis. Curr Opin Immunol. 1993;5:956-62.
114. **Leung DYM**. Immunology of atopic dermatitis. Clin Rev Allergy. 1993;11:447-70.
115. Dorion BJ, Burks AW, Harbeck R, Williams LW, Trumble A, Helm RM, **Leung DYM**. The production of interferon-gamma in response to a major peanut allergy, Ara h II correlates with serum levels of IgE anti-Ara h II. J Allergy Clin Immunol. 1994;93:93-9.
116. Sher ER, **Leung DYM**, Surs W, Kam JC, Kamada AK, Martin R, Szeffler SJ. Steroid resistant asthma: cellular mechanisms contributing to inadequate response to glucocorticoid therapy. J Clin Invest. 1994;93:33-9.
117. Lack G, Renz H, Saloga J, Bradley KL, Loader JE, **Leung DYM**, Larsen G, Gelfand EW. Nebulized but not parenteral interferon-gamma decreases IgE production and normalizes airways function in a murine model of allergen sensitization. J Immunol. 1994;152:2546-54.
118. Meissner HC, Schlievert PM, **Leung DYM**. The mechanisms of immunoglobulin action: observations on Kawasaki syndrome and RSV prophylaxis. Immunol Rev. 1994;139:109-23.
119. Renz H, Brodie C, Bradley KL, **Leung DYM**, Gelfand EW. Enhancement of IgE production by anti-CD40 antibody in atopic dermatitis. J Allergy Clin Immunol. 1994;93:658-68.
120. Arend WP, **Leung DYM**. IgG induction of IL-1 receptor antagonist production by human monocytes. Immunol Rev. 1994;139:71-8.
121. **Leung DYM**. Mechanisms of the human allergic response: clinical implications. Pediatr Clin North Am. 1994;41:727-43.
122. Spahn JD, Kamada AK, Szeffler SJ, **Leung DYM**. Difficult-to-control asthma: identification of conditions contributing to poor response to glucocorticoid therapy. Am J Asthma Allergy. 1994;87-93.
123. Boguniewicz M, **Leung DYM**. Cellular Inflammation in atopic dermatitis and its clinical implications. Pract Allergy Immunol. 1994;9:94-103.
124. Altekruenger I, James WD, **Leung DYM**, Hanifin J, Plewig, Braun-Falco O, Burton JL, Ackerman AB. 'Eczema' revisited. Am J Dermatopathol. 1994;16:517-31.
125. Zieg G, Lack G, Harbeck RJ, Gelfand EW, **Leung DYM**. *In vivo* effects of glucocorticoids on IgE production. J Allergy Clin Immunol. 1994;94:222-30.
126. Spahn JD, **Leung DYM**, Surs W, Nimmagadda S, Szeffler SJ. Effect of prednisone treatment on glucocorticoid receptor binding parameters in poorly controlled asthma. Am J Pediatr Asthma Allergy. 1994;7:87-92.
127. Milgrom H, Bender B, Sarlin N, **Leung DYM**. Difficult to control asthma: the challenge posed by non-compliance. Am J Asthma Allergy. 1994;7:141-6.

128. Finkel RH, Torok TJ, Ferguson PJ, Durigon EL, Zaki SR, **Leung DYM**, Harbeck RJ, Gelfand EW, Saulsbury FT, Hollister JR, Anderson LJ. Chronic parvovirus B19 infection and systemic necrotizing vasculitis: opportunistic infection or etiologic agent? Lancet. 1994;343:1255-8.
129. Picker LJ, Martin RJ, Trumble A, Newman LS, Collins PA, Bergstresser PR, **Leung DYM**. Differential expression of lymphocyte homing receptors by human memory/effector T cells in pulmonary versus cutaneous immune effector sites. Eur J Immunol. 1994;24(6):1269-77.
130. Hamid Q, Boguniewicz M, **Leung DYM**. Differential In situ cytokine gene expression in acute versus chronic atopic dermatitis. J Clin Invest. 1994;94:870-6. PMID: PMC296169
131. Kamada AK, Spahn JD, Surs W, Brown E, **Leung DYM**, Szeffler SJ. Coexistence of glucocorticoid receptor and pharmacokinetic abnormalities: factors contributing to a poor response to glucocorticoids in children with asthma. J Pediatr. 1994;124:984-6.
132. Kamada AK, Szeffler SJ, **Leung DYM**. The growing problem of steroid-resistant asthma: a clinical challenge. Phys Assist. 1994;18:31-42.
133. Abernathy-Carver KJ, Fan LL, Boguniewicz M, Larsen GL, **Leung DYM**. Legionella and pneumocystis pneumonia in asthmatic children on high doses of systemic steroids. Pediatr Pulmonol. 1994;18:135-8.
134. Landwehr LP, Lane G, **Leung DYM**. Latex allergy and intraoperative anaphylaxis in a child. Am J Asthma Allergy. 1994;7:205-10.
135. Saloga J, Lack G, K Bradley, Renz H, Larsen G, **Leung DYM**, Gelfand EW. Inhibition of the development of immediate hypersensitivity by staphylococcal enterotoxin B. Eur J Immunol. 1994;24:3140-7.
136. Boguniewicz M, Martin RJ, Martin D, Gibson U, Celniker A, Williams M, **Leung DYM**. The effects of nebulized recombinant interferon gamma in asthmatic airways. J Allergy Clin Immunol. 1995;95:133-5.
137. Boguniewicz M, **Leung DYM**. All that wheezes and sneezes...revisited. Am J Asthma Allergy. 1995;8:41-44.
138. Spahn JD, **Leung DYM**, Surs W, Harbeck R, Nimmagadda S, Szeffler SJ. Reduced glucocorticoid binding affinity in asthma is related to ongoing allergic inflammation. Am J Respir Crit Care Med. 1995;151:1709-14.
139. Clayton MH, **Leung DYM**, Surs W, Szeffler SJ. Altered glucocorticoid receptor binding in atopic dermatitis. J Allergy Clin Immunol. 1995;96:421-3.
140. **Leung DYM**, Meissner HC, Schlievert PM. The potential role of bacterial superantigens in the pathogenesis of Kawasaki syndrome. J Clin Immunol. 1995;15:11S-17S.
141. Schlievert PM, Bohach GA, Ohlendorf DH, Stauffacher CV, **Leung DYM**, Murray DL, Prasad SP, Earhart CA, Jablonski LM, Hoffmann ML, Young-In Chi, B.S. Molecular structure of staphylococcus and streptococcus superantigens. J Clin Immunol. 1995;15:4S-10S.
142. **Leung DYM**. Clinical applications of cytokines: Role in pathogenesis, diagnosis and therapy. Immunol Today. 1995;16:111-2.
143. Hamilos DL, **Leung DYM**, Wood R, Cunningham L, Bean DK, Yasrueel Z, Schotman E, Hamid Q. Evidence for distinct cytokine expression in allergic versus nonallergic chronic sinusitis. J Allergy Clin Immunol. 1995;96(4):537-44.
144. Bratton DL, Hamid Q, Boguniewicz M, Doherty DE, Kailey JM, **Leung DYM**. Granulocyte macrophage colony-stimulating factor contributes to enhanced monocyte survival in chronic atopic dermatitis. J Clin Invest. 1995;95:211-8. PMID: PMC295407.
145. Dorion BJ, **Leung DYM**. Selective expansion of T cells expressing Vbeta2 in peanut allergy. Pediatr Allergy Immunol. 1995;6:95-7.

146. **Leung DYM**, Martin RJ, Szeffler SJ, Sher ER, Ying S, Kay AB, Hamid Q. Dysregulation of interleukin-4, interleukin-5, and interferon-gamma gene expression in steroid-resistant asthma. J Exp Med. 1995;181:33-40.
147. Lester MR, Hofer MF, Gately M, Trumble A, **Leung DYM**. Down-regulating effects of IL-4 and IL-10 on the IFN-gamma response in atopic dermatitis. J Immunol. 1995;154(11):6174-81.
148. Abernathy-Carver KJ, Sampson HA, Picker LJ, **Leung DYM**. Milk-induced eczema is associated with the expansion of T cells expressing cutaneous lymphocyte antigen. J Clin Invest. 1995;95:913-8. PMID: PMC295586
149. **Leung DYM**, Giorno R, Kazemi LV, Flynn PA, Bussel JB. Evidence for superantigen involvement in cardiovascular injury due to Kawasaki syndrome. J Immunol. 1995;155:5018-21.
150. **Leung DYM**. The role of bacterial superantigens in Kawasaki syndrome. Allergy Clin Immunol News. 1995;7:43-7.
151. Saloga J, Enk AH, Becker D, Mohamadzadeh M, Spieles S, Bellinghauser I, **Leung DYM**, Gelfand EW, Knop J. Modulation of contact sensitivity responses by bacterial superantigen. J Invest Dermatol. 1995;105:220-4.
152. **Leung DYM**, Travers JB, Norris DA. The role of superantigens in skin disease. J Invest Dermatol. 1995;105:37S-42S.
153. **Leung DYM**, Gately M, Trumble A, Ferguson-Darnell B, Schlievert PM, Picker LJ. Bacterial superantigens induce T cell expression of the skin-selective homing receptor the cutaneous lymphocyte-associated (CLA) antigen via stimulation of IL-12 production. J Exp Med. 1995;181:747-53. PMID: PMC2191866
154. Boguniewicz M, **Leung DYM**. Hypersensitivity reactions to antibiotics commonly used in children. J Pediatr Infect Dis. 1995;14:221-31.
155. Hofer MF, Lester MR, Schlievert PM, **Leung DYM**. Upregulation of IgE synthesis by staphylococcal toxic shock syndrome toxin-1 in peripheral blood mononuclear cells from patients with atopic dermatitis. Clin Exp Allergy. 1995;25:1218-27.
156. Lester MR, Renz H, Trumble AE, Gelfand EW, **Leung DYM**. Modulatory effects of staphylococcal superantigens on IgE synthesis in atopic dermatitis. Clin Immunol Immunopathol. 1995;77:332-8.
157. Landwehr LP, Spahn JD, Szeffler SJ, **Leung DYM**. Management of steroid-resistant asthma. Clin Immunother. 1995;4:124-37.
158. **Leung DYM**. Steroid resistant asthma. West J Med. 1995;163:367-8.
159. **Leung DYM**. Atopic dermatitis: the skin as a window into the pathogenesis of chronic allergic diseases. J Allergy Clin Immunol. 1995;96:302-18.
160. **Leung DYM**, Meissner HC, Fulton DR, Quimby F, Schlievert PM. Superantigens in Kawasaki syndrome. Clin Immunol Immunopathol. 1995;77:119-26.
161. Roesler TA, Bock SA, **Leung DYM**. Management of the child presenting with allergy to multiple foods. Clin Pediatr. 1995;34:608-12.
162. Meissner HC, **Leung DYM**. Kawasaki syndrome. Curr Opin Rheumatol. 1995;7:455-8.
163. **Leung DYM**, Meissner HC, Fulton D, Schlievert PM. The potential role of bacterial superantigens in the pathogenesis of Kawasaki syndrome. J Clin Immunol. 1995;15:11S-17S.
164. Roesler TA, **Leung DYM**. The child who is allergic to all foods. Cortlandt Forum. 1995;8:138-9.
165. **Leung DYM**, Travers JB, Giorno R, Norris DA, Skinner, Aelion J, Kazemi LV, Trumble AE, Kotb M, Schlievert PM. Evidence for a streptococcal superantigen-driven process in acute guttate psoriasis. J Clin Invest. 1995;96:2106-12. PMID: PMC185858
166. Paterson RLK, Finkel TH, Lack G, Domenico JM, Delespesse G, **Leung DYM**, Gelfand EW.

- Triggering through CD40 promotes IL-4-induced CD23 production: enhanced soluble CD23 release in atopic disease. Eur J Immunol. 1996;26:1979-84.
167. Boguniewicz M, **Leung DYM**. New concepts in atopic dermatitis. Comprehensive Therapy. 1996;22:144-51.
168. Spahn JD, Landwehr LP, Nimmagadda SR, Surs W, **Leung DYM**, Szeffler SJ. Effects of glucocorticoids on lymphocyte activation in steroid-sensitive and steroid-resistant asthmatics. J Allergy Clin Immunol. 1996;98:1073-9.
169. **Leung DYM**. Kawasaki disease: immunomodulatory benefit and potential toxin neutralization by IVIG. Clin Exp Immunol. 1996;104:49-54.
170. Makida R, Hofer MF, Takase K, Cambier JC, **Leung DYM**. Bacterial superantigens induce Vbeta - specific T cell receptor internalization. Mol Immunol. 1996;33:891-900.
171. **Leung DYM**. Superantigens related to Kawasaki syndrome. Springer Semin Immunopathol. 1996;17:385-96.
172. Walsh P, Norris DA, Abe J, Martin DK, Giorno R, **Leung DYM**. *Candida albicans* induces selective expansion of human T lymphocytes expressing the T cell receptor variable region Vbeta5.1. J Dermatol Sci. 1996;12:140-6.
173. Saloga J, **Leung DYM**, Reardon C, Giorno RC, Born W, Gelfand EW. Cutaneous exposure to the superantigen staphylococcal enterotoxin B elicits a T-cell-dependent inflammatory response. J Invest Dermatol. 1996;106:982-8.
174. Hofer MF, Newell K, Duke R, Schlievert PM, Freed JH, **Leung DYM**. Differential effects of staphylococcal toxic shock syndrome toxin-1 on B cell apoptosis. Proc Natl Acad Sci USA. 1996;93:5425-30.
175. Lack G, Bradley KL, Hamelmann E, Renz H, Loader, **Leung DYM**, Larsen G, Gelfand EW. Nebulized IFN-gamma inhibits the development of secondary allergic responses in BALB/c mice. J Immunol. 1996;157:1432-9.
176. **Leung DYM**, Spahn JD, Nimmagadda S, Szeffler SJ. Induction of corticosteroid resistance *in vitro*. Am J Respir Crit Care Med. 1996; 54:S34-S37.
177. Spahn JD, **Leung DYM**. The role of glucocorticoids in the management of asthma. Allergy Asthma Proc. 1996;17:341-50.
178. Ezepechuk YV, **Leung DYM**, Middleton MH, Bina P, Reiser R, Norris DA. Staphylococcal toxins and protein A differentially induce cytotoxicity and release of tumor necrosis factor-alpha from keratinocytes. J Invest Dermatol. 1996;107:603-9.
179. Boguniewicz M, **Leung DYM**. Recalcitrant rhinosinusitis. Cortlandt Forum. 996;9:128-31.
180. Chrousos GP, Castro M, **Leung DYM**, Webster E, Kino T, Bamberger C, Elliot S, Karl M. Molecular mechanisms of glucocorticoid resistance/hypersensitivity: potential clinical implications. Am J Resp Crit Care Med. 1996;154:S39-S44.
181. Hamid Q, Naseer T, Minshall EM, Song TL, Boguniewicz M, **Leung DYM**. *In vivo* expression of interleukin-12 and interleukin-13 in atopic dermatitis. J Allergy Clin Immunol. 1996;98:225-31.
182. Hamilos DL, **Leung DYM**, Wood R, Bean DK, Song YL, Schotman E, Hamid Q. Eosinophil infiltration in nonallergic chronic hyperplastic sinusitis with nasal polyposis (CHS/NP) is associated with endothelial VCAM-1 upregulation and expression of TNF-alpha. Am J Respir Cell Mol Biol. 1996;15(4):443-50.
183. Meissner HC, **Leung DYM**. Role of immunoglobulin therapy in Kawasaki syndrome and RSV prophylaxis. Frontiers in Bioscience. 1996;1:e55-64.
184. Boguniewicz M, **Leung DYM**. Obstructive sleep apnea. Cortlandt Forum. 1996;9:122-4.
185. Nimmagadda SR, Spahn JD, **Leung DYM**, Szeffler SJ. Steroid-resistant asthma: evaluation and

- management. Ann Allergy Asthma Immunol. 1996;77:345-55.
186. Boguniewicz M, **Leung DYM**. Vocal cord dysfunction. Cortlandt Forum. 1996;9:195-201.
187. Boguniewicz M, **Leung DYM**. Resistant urticaria. Cortlandt Forum. 1996;9:151-2.
188. Meer S, Groothuis JR, Harbeck R, Liu S, **Leung DYM**. The potential role of gastroesophageal reflux in the pathogenesis of food-induced wheezing. Pediatr Allergy Immunol. 1996;7:167-70.
189. Spahn JD, Szeffler SJ, Surs W, Doherty DE, **Leung DYM**. A novel action of interleukin-13: Induction of diminished monocyte glucocorticoid receptor binding affinity. J Immunol. 1996;2654-9.
190. Boguniewicz M, **Leung DYM**. Latex allergy. Cortlandt Forum. 1996;9(9):190-2.
191. Nimmagadda SE, Spahn JD, Surs W, Szeffler SJ, **Leung DYM**. Allergen exposure decreases glucocorticoid receptor binding affinity and steroid responsiveness in atopic asthmatics. Am J Respir Crit Care Med. 1997;155:87-93.
192. Gavin LA, Lanz MJ, **Leung DYM**, Roesler TA. Chronic subungual hematomas presenting as an immunologic puzzle. Arch Pediatr Adolescent Med. 1997;151:103-4.
193. Naseer T, Minshall EM, Laberge S, Ernst P, Martin RJ, **Leung DYM**, Hamid Q. Expression of IL-12 and IL-13 mRNA in asthma and their modulation in response to steroid therapy. Am J Resp Crit Care Med. 1997;155:845-51.
194. Szeffler SJ, **Leung DYM**. Glucocorticoid-resistant asthma: pathogenesis and clinical implications for management. Eur Respir J. 1997;10:1640-7.
195. **Leung DYM**. Atopic dermatitis: immunobiology and treatment with immune modulators. Clin Exp Immunol. 1997;107:25-30.
196. Nelson HS, Lahr J, Rule R, Bock SA, **Leung DYM**. Treatment of anaphylactic sensitivity to peanuts by immunotherapy with injections of aqueous peanut extract. J Allergy Clin Immunol. 1997;99:744-51.
197. **Leung DYM**. Pathogenesis and clinical aspects of atopic dermatitis. Int J Immunopathol Pharmacol. 1997;10:119-22.
198. **Leung DYM**. Immunology of atopic dermatitis: implications for therapy. Curr Allergy Clin Immunol. 1997;10:24-30.
199. Wenzel SE, Szeffler SJ, **Leung DYM**, Sloan SI, Rex MD, Martin RJ. Bronchoscopic evaluation of severe asthma: persistent inflammation despite high dose glucocorticoids. Am J Resp Crit Care Med. 1997;156:737-43.
200. **Leung DYM**, DeLeo V, Diaz L, Soter NA. Allergic and immunologic skin disorders. JAMA. 1997;278:1799-2034.
201. Hofer, M, **Leung DYM**. Immunopathogenesis of allergic diseases. Rec Adv Pediatr. 1997;16:139-56.
202. Minshall EM, **Leung DYM**, Martin RJ, Song YL, Cameron L, Ernst P, Hamid Q. Eosinophil-associated TG-beta₁ mRNA expression and airways fibrosis in bronchial asthma. Am J Respir Cell Mol Biol. 1997;17(3):326-33. PMID: 9308919.
203. **Leung DYM**, Norris DA. Bacterial superantigens in psoriasis and atopic dermatitis. Progr Dermatol. 1997;31:1-14.
204. Folzenlogen D, Hofer MF, **Leung DYM**, Freed JH, Newell MK. Analysis of CD80 and CD86 expression on peripheral blood B lymphocytes reveals increased expression of CD86 in lupus patients. Clin Immunol Immunopathol. 1997;83(3):199-204. PMID: 9175908.
205. Spahn JD, **Leung DYM**, Szeffler SJ. New insights into the pathogenesis and management of steroid-resistant asthma. J Asthma. 1997;34(3):177-94. PMID: 9168845.
206. Jirapongsananuruk O, **Leung DYM**. Clinical applications of cytokines: new directions in the therapy

- of atopic diseases. Ann Allergy Asthma Immunol. 1997;79(1):5-20. PMID: 9236494.
207. **Leung DYM**, Meissner HC, Schlievert PM. The etiology and pathogenesis of Kawasaki disease - how close are we to an answer? Curr Opin Infect Dis. 1997;10:226-32.
208. **Leung DYM**, Hanifin JM, Charlesworth EN, Li JT, Bernstein IL, Berger WE, Blessing-Moore J, Fineman S, Lee RE, Nicklas RA, Spector SL. Disease management of atopic dermatitis: a practice parameter. Ann Allergy Asthma Immunol. 1997;79(3):197-211. PMID: 9305225.
209. Lanz MJ, **Leung DYM**, McCormick DR, Harbeck R, Szeffler SJ, White CW. Comparison of exhaled nitric oxide, serum eosinophilic cationic protein, and soluble interleukin-2 receptor in exacerbations of pediatric asthma. Pediatr Pulmonol. 1997;24(5):305-311. PMID: 9407562.
210. **Leung DYM**, Sullivan KE, Brown-Whitehorn TF, Fehringer AP, Allen S, Finkel TH, Washington RL, Makida R, Schlievert PM. Association of toxic shock syndrome toxin-secreting and exfoliative toxin-secreting *Staphylococcus aureus* with Kawasaki syndrome complicated by coronary artery disease. Pediatr Res. 1997;42(3):268-72. PMID: 9284264.
211. Kamada AK, Szeffler SJ, **Leung DYM**. Steroid resistant asthma: mechanisms and clinical implications. Clin Asthma Rev. 1997;1:123-8.
212. Minshall EM, Cameron L, Lavigne F, **Leung DYM**, Hamilos D, Garcia-Zepada E, Rothenberg M, Luster A, Hamid Q. Eotaxin mRNA and protein expression in chronic sinusitis and allergen-induced nasal responses in seasonal allergic rhinitis. Am J Respir Cell Mol Biol. 1997;17(6):683-90. PMID: 9409555.
213. **Leung DYM**, Hamid Q, Vottero A, Szeffler SJ, Surs W, Minshall E, Chrousos GP, Klemm D. Association of glucocorticoid insensitivity with increased expression of glucocorticoid receptor-beta. J Exp Med. 1997;186(9):1567-74. PMCID: PMC2199113.
214. **Leung DYM**. The immunologic basis of allergic diseases: clinical messages from the laboratory bench. Pediatr Res. 1997;42(5):559-68. PMID: 9357924.
215. Boguniewicz M, **Leung DYM**. *Mycosis fungoides*. Cortlandt Forum. 1997;10:199-207.
216. **Leung DYM**. Allergy, immunology and related disorders. Curr Opin Pediatr. 1997;9(6):565-9. PMID: 9425588.
217. **Leung DYM**. Immunologic basis of chronic allergic diseases: clinical messages from the laboratory bench. Pediatr Res. 1997;42(5):559-68. PMID: 9357924.
218. Boguniewicz M, **Leung DYM**. Hypersensitivity pneumonitis. Cortlandt Forum. 1998;11:171-3.
219. Norris DA, Travers JB, **Leung DYM**. Lymphocyte activation in the pathogenesis of psoriasis. J Invest Dermatol. 1997;109(1):1-4. PMID: 9204946.
220. Boguniewicz M, **Leung DYM**. Atopic dermatitis: a question of balance. Arch Dermatol. 1998;134(7):870-1. PMID: 9681355.
221. Hofer MF, Jirapongsananuruk O, Trumble AE, **Leung DYM**. Upregulation of B7.2, but not B7.1, on B cells from patients with allergic asthma. J Allergy Clin Immunol. 1998;101:96-102. PMID: 9449507.
222. Nimmagadda SE, Spahn JD, Nelson HS, Szeffler SJ, **Leung DYM**. Fluticasone propionate improves glucocorticoid receptor binding affinity while reducing eosinophil cationic protein levels and oral glucocorticoid requirements in severe asthma. Ann Allergy Asthma Immunol. 1998;81(1):35-40. PMID: 9690571.
223. **Leung DYM**, deCastro M, Szeffler SJ, Chrousos GP. Mechanisms of glucocorticoid-resistant asthma. Ann NY Acad Sci. 1998;840:735-46. PMID: 9629300.
224. Chan MT, **Leung DYM**, Szeffler SJ, Spahn JD. Difficult-to-control asthma: clinical characteristics of steroid-insensitive asthma. J Allergy Clin Immunol. 1998;101(5):594-601. PMID: 9600494.
225. Jirapongsananuruk O, Hofer MF, Trumble AE, Norris DA, **Leung DYM**. Enhanced expression of

- B7.2 (CD86) in patients with atopic dermatitis: a potential role in the modulation of IgE synthesis. J Immunol. 1998;160(9):4622-7. PMID: 9574570.
226. **Leung DYM**. Molecular basis of allergic diseases. Mol Genet Metab. 1998;63(3):157-67. PMID: 9608537.
227. Hamilos DL, **Leung DYM**, Huston DP, Kamil A, Wood R, Hamid Q. GM-CSF, IL-5 and RANTES immunoreactivity and mRNA expression in chronic hyperplastic sinusitis with nasal polyposis (NP). Clin Exp Allergy. 1998;28(9):1145-52. PMID: 9761019.
228. Laberge S, Ghaffer O, Boguniewicz M, **Leung DYM**, Hamid Q. Association of increased CD4+ T cell infiltration with increased IL-16 gene expression in atopic dermatitis. J Allergy Clin Immunol. 1998;102:645-50. PMID: 9802374.
229. Taha RA, **Leung DYM**, Ghaffar O, Boguniewicz M, Hamid Q. *In vivo* expression of cytokine receptor mRNA in atopic dermatitis. J Allergy Clin Immunol. 1998;102(2):245-50. PMID: 9723668.
230. Boguniewicz M, **Leung DYM**. Allergic contact dermatitis. Cortlandt Forum. 1998;11:165-6.
231. **Leung DYM**, Szeffler SJ. New Insights into steroid resistant asthma. Pediatr Allergy Immunol. 1998;9(1):3-12. PMID: 9560836.
232. **Leung DYM**, Schlievert PM, Meissner HC. The immunopathogenesis and management of Kawasaki syndrome. Arth Rheum. 1998;41(9):1538-47. PMID: 9751085.
233. Boguniewicz M, Fielder VC, Raimer S, Lawrence ID, **Leung DYM**, Hanifin JM. A randomized vehicle-controlled trial of tacrolimus ointment for treatment of atopic dermatitis in children. Pediatric Tacrolimus Study Group. J Allergy Clin Immunol. 1998;102:637-44. PMID: 9802373.
234. Chu HW, Halliday JL, Martin RJ, **Leung DYM**, Szeffler SJ, Wenzel SE. Collagen deposition in large airways may not differentiate severe asthma from milder forms of the disease. Am J Respir Crit Care Med. 1998;158:1936-44. PMID: 9847289.
235. **Leung DYM**, Hauk PJ, Strickland I, Travers JB, Norris DA. The role of superantigens in human diseases: therapeutic implications for treatment of skin diseases. Br J Dermatol. 1998;139:17-29. PMID: 9990409.
236. **Leung DYM**. The role of superantigens in allergic skin disease. Environ Dermatol. 1998;5:1-4.
237. **Leung DYM**. Atopic dermatitis and the Th2 concept. Environ Dermatol. 1998;5:107-9.
238. Szeffler SJ, **Leung DYM**. Corticosteroid-resistant asthma: pathogenesis and clinical implications for management. J Respir Dis. 1998;11(1):256. PMID: 9543302.
239. Boguniewicz M, **Leung DYM**. Atopic dermatitis: a question of balance. Arch Dermatol. 1998;134(7):870-1. PMID: 9681355.
240. **Leung DYM**. Transformation of The Journal begins. J Allergy Clin Immunol. 1998;102:18.
241. Kraft M, Vianna E, Martin RJ, **Leung DYM**. Nocturnal asthma is associated with reduced glucocorticoid receptor binding affinity and decreased steroid responsiveness at night. J Allergy Clin Immunol. 1999;103:66-71. PMID: 9893187.
242. Bratton DL, May KR, Kailey JM, Doherty DE, **Leung DYM**. Staphylococcal toxic shock syndrome toxin-1 inhibits monocyte apoptosis. J Allergy Clin Immunol. 1999;103:895-900. PMID: 10329825.
243. Hofer MF, Harbeck RJ, Schlievert PM, **Leung DYM**. Staphylococcal toxins augment specific IgE responses by atopic patients exposed to allergen. J Invest Dermatol. 1999;112(2):171-6. PMID: 9989792.
244. **Leung DYM**, Spahn JD, Szeffler SJ. Immunologic basis and management of steroid resistant asthma. Allergy Asthma Proc. 1999;20(1):9-14. PMID: 10076704.
245. Lanz MJ, **Leung DYM**, White CW. Comparison of exhaled nitric oxide to spirometry during emergency treatment of asthma exacerbations with glucocorticoids in children. Ann Allergy Asthma

- Immunol. 1999;82(2):161-4. PMID: 10071519.
246. Hamid QA, Wenzel SE, Hauk PJ, Tsicopoulos A, Wallaert B, Lafitte J-J, Chrousos GP, Szeffler SJ, **Leung DYM**. Increased glucocorticoid receptor in airway cells of glucocorticoid insensitive asthma. Am J Resp Crit Care Med. 1999;159:1600-4. PMID: 10228133.
247. Strickland I, Hauk PJ, Trumble AE, Picker LJ, **Leung DYM**. Evidence for superantigen involvement in skin homing of T cells in atopic dermatitis. J Invest Dermatol. 1999;112(2):249-53. PMID: 9989804.
248. Wann L, Fehring AP, Harbeck R, Schlievert PM, Höök M, **Leung DYM**. *Staphylococcal aureus* isolates from Kawasaki disease hypersecrete extracellular protein A. Infect Immunol. 1999;67(9):4737-43. PMID: PMC96803.
249. Wamboldt FS, Spahn JD, Klinnert MD, Wamboldt MZ, Gavin LA, Szeffler SJ, **Leung DYM**. Clinical outcomes of steroid insensitive asthma. Ann Allergy Asthma Immunol. 1999;83:55-60. PMID: 10437817.
250. Hauk PJ, Wenzel SE, Trumble AE, Szeffler SJ, **Leung DYM**. Increased T-cell receptor vbeta8+ T cells in bronchoalveolar lavage fluid of subjects with poorly controlled asthma: a potential role for microbial superantigens. J Allergy Clin Immunol. 1999;104(1):37-45. PMID: 10400837.
251. Fost DA, **Leung DYM**, Martin RJ, Brown EE, Szeffler SJ, Spahn JD. Inhibition of methylprednisolone elimination in the presence of clarithromycin therapy. J Allergy Clin Immunol. 1999;103:1031-5. PMID: 10359882.
252. Spahn JD, **Leung DYM**, Chan MTS, Szeffler SJ, Gelfand EW. Mechanisms of glucocorticoid reduction in asthmatics treated with intravenous immunoglobulin. J Allergy Clin Immunol. 1999;103:421-6. PMID: 10069875.
253. Cunningham MW, Meissner HC, Heuser JS, Pietra BA, Kurahara DK, **Leung DYM**. Anti-human cardiac myosin autoantibodies in Kawasaki syndrome. J Immunol. 1999;163(2):1060-5. PMID: 10395705.
254. Ezepechuk YV, Fehring AP, Harbeck R, Freed JH, **Leung DYM**. *Staphylococcus aureus* isolated from Kawasaki disease patients hyper-releases extracellular protein A. Mol Gen Microbiol Virusol. 1999;(2):229-34. PMID: 10396730.
255. Hong SJ, Michael JG, Fehring A, **Leung DYM**. Pepsin-digested peanut contains T-cell epitopes but no IgE epitopes. J Allergy Clin Immunol. 1999;104:473-8. PMID: 10452774.
256. Spahn JD, **Leung DYM**. Steroid resistant asthma: Pathogenesis and management. Resident and Staff Physician. 1999;45:11-25.
257. Rabinovitch N, Gelfand EW, **Leung DYM**. The role of immunoglobulin therapy in allergic diseases. Allergy. 1999;54:662-8. PMID: 10442521.
258. **Leung DYM**. Pathogenesis of atopic dermatitis. J Allergy Clin Immunol. 1999;104:S99-108. PMID: 10482860.
259. Travers JB, Hamid QA, Norris DA, Kuhn C, Giorno RC, Schlievert PM, Farmer ER, **Leung DYM**. Epidermal HLA-DR and the enhancement of cutaneous reactivity to superantigenic toxins in psoriasis. J Clin Invest. 1999; 104:1181-9. PMID: PMC409817.
260. Jirapongsananuruk O, **Leung DYM**. The modulation of B7.2 and B7.1 on B cells by immunosuppressive agents. Clin Exp Immunol. 1999;118:1-8. PMID: PMC1905388.
261. **Leung DYM**. How effective is intravenous immunoglobulin in steroid resistant asthma? J Respir Dis. 1999;21:162-3.
262. **Leung DYM**. Therapeutic perspectives in atopic dermatitis. Allergy. 1999;54(s58):39-42. PMID: 10735649.
263. **Leung DYM**. New opportunities, new products. J Allergy Clin Immunol. 2000;106(6):1043-4. PMID:

11112884.

264. **Leung DYM**, Chrousos GP. Is there a role for glucocorticoid receptor beta in glucocorticoid-dependent asthmatics? Am J Respir Crit Care Med. 2000;162(1):1-3. PMID: 10903210.
265. Jirapongsananuruk O, Donahue HL, Trumble AE, **Leung DYM**. The modulation of cytokine and IgE production by tumor necrosis factor-beta in atopic dermatitis. J Invest Dermatol. 2000;114(1):200-3. PMID: 10620139.
266. **Leung DYM**, Meissner HC. The many faces of Kawasaki syndrome. Hosp Pract. 2000;35(1):77-94. PMID: 10645991.
267. Meissner HC, **Leung DYM**. Superantigens, conventional antigens and the etiology of Kawasaki syndrome. Pediatr Infect Dis J. 2000;19(2):91-4. PMID: 10693992.
268. Skov L, Olsen JV, Giorno R, Trumble A, Schlievert PM, Baadsgaard O, **Leung DYM**. Application of staphylococcal enterotoxin B on normal and atopic skin induces up-regulation of T cells via a superantigen-mediated mechanism. J Allergy Clin Immunol. 2000;105:820-6. PMID: 10756235.
269. Hauk PJ, Hamid QA, Chrousos GP, **Leung DYM**. Induction of corticosteroid insensitivity in human PBMCs by microbial superantigens. J Allergy Clin Immunol. 2000;105:782-7. PMID: 10756230.
270. Taha RA, Minshall EM, **Leung DYM**, Boguniewicz M, Luster A, Muro S, Toda M, Hamid QA. Evidence for increased expression of eotaxin and monocyte chemoattractant protein-4 in atopic dermatitis. J Allergy Clin Immunol. 2000;105:1002-7. PMID: 10808183.
271. **Leung DYM**. Atopic Dermatitis: New insights and opportunities for therapeutic intervention. J Allergy Clin Immunol. 2000;105:860-76. PMID: 10808164.
272. Gereda JE, **Leung DYM**, Thatayatikom A, Price MR, Streib JE, Klinnert MD, Liu AH. Relation between house-dust endotoxin exposure, type 1 T-cell development, and allergen sensitization in infants at high risk of asthma. Lancet. 2000;355:1680-3. PMID: 10905243.
273. **Leung, DYM**. Rationale for antibiotic/steroid combinations in the treatment of atopic dermatitis. Dermatology in Practice. 2000;8:1-7.
274. Gereda JE, **Leung DYM**, Liu AH. Levels of environmental endotoxin and prevalence of atopic disease. JAMA. 2000;284:1652-3. PMID: 11015794.
275. Covar RA, **Leung DYM**, McCormick D, Steelman J, Zeitler P, Spahn JD. Risk factors associated with glucocorticoid-induced adverse effects in children with severe asthma. J Allergy Clin Immunol. 2000;106:651-9. PMID: 11031335.
276. Beck LA, **Leung DYM**. Allergen sensitization through the skin induces systemic allergic responses. J Allergy Clin Immunol. 2000;106:S258-S263. PMID: 11080741.
277. Christodoulopoulos P, **Leung DYM**, Elliott MW, Hogg JC, Muro S, Toda M, et al. Increased number of glucocorticoid receptor-beta-expressing cells in the airways in fatal asthma. J Allergy Clin Immunol. 2000;106:479-84. PMID: 10984367.
278. Yarwood JM, **Leung DYM**, Schlievert PM. Evidence for the involvement of bacterial superantigens in psoriasis, atopic dermatitis, and Kawasaki syndrome. FEMS Microbiol Lett. 2000;192:1-7. PMID: 11040420.
279. Liu AH, **Leung DYM**. Modulating the early allergic response with endotoxin. Clin Exp Allergy. 2000;30:1535-9. PMID: 11069560.
280. Jirapongsananuruk O, Melamed I, **Leung DYM**. Additive immunosuppressive effects of 1,25-dihydroxyvitamin D3 and corticosteroids on TH₁, but not TH₂, responses. J Allergy Clin Immunol. 2000;106:981-5. PMID: 11080724.
281. **Leung DYM**, Soter NA. Cellular and immunologic mechanisms in atopic dermatitis. J Am Acad Dermatol. 2001;44:S1-S12. PMID: 11145790.

282. Paller A, Eichenfield LF, **Leung DYM**, Stewart D, Appell M. A 12-week study of tacrolimus ointment for the treatment of atopic dermatitis in pediatric patients. J Am Acad Dermatol. 2001;44:S47-57. PMID: 11145795.
283. Klinnert MD, Nelson HS, Price MR, Adinoff AD, **Leung DYM**, Mrazek DA. Onset and persistence of childhood asthma: predictors from infancy. Pediatrics. 2001;108:E69. PMID: 11581477.
284. **Leung DYM**. Atopic dermatitis and the immune system: The role of superantigens and bacteria. J Am Acad Dermatol. 2001;45:S13-S16. PMID: 11423865.
285. Orwin PM, **Leung DYM**, Donahue HL, Novick RP, Schlievert PM. Biochemical and biological properties of Staphylococcal enterotoxin K. Infect Immun. 2001;69:360-6. PMID: PMC97891.
286. McCormick JK, Pragman AA, Stolpa JC, **Leung DYM**, Schlievert PM. Functional characterization of streptococcal pyrogenic exotoxin J, a novel superantigen. Infect Immun. 2001;69:1381-8. PMID: PMC98031.
287. Hauk PJ, **Leung DYM**. Tacrolimus (FK506): new treatment approach in superantigen-associated diseases like atopic dermatitis? J Allergy Clin Immunol. 2001;107:391-2. PMID: 11174211.
288. Strickland I, Kisich K, Hauk PJ, Vottero A, Chrousos GP, Klemm DJ, **Leung, DYM**. High constitutive glucocorticoid receptor beta in human neutrophils enables them to reduce their spontaneous rate of cell death in response to corticosteroids. J Exp Med. 2001;193:585-94. PMID: PMC2193396.
289. Kraft M, Hamid Q, Chrousos GP, Martin RJ, **Leung DYM**. Decreased steroid responsiveness at night in nocturnal asthma. Is the macrophage responsible? Am J Respir Crit Care Med. 2001;163:1219-25. PMID: 11316662.
290. **Leung DYM**. Launching JACI into the new millennium: Outer space and cyberspace. J Allergy Clin Immunol. 2001;107:21.
291. Cho S-H, Strickland I, Tomkinson A, Gelfand EW, **Leung DYM**. Preferential binding of *Staphylococcus aureus* to skin sites of Th2-mediated inflammation in a murine model. J Invest Dermatol. 2001;116(5):658-63. PMID: 11348452.
292. Gereda JE, Klinnert MD, Price MR, **Leung DYM**, Liu AH. Metropolitan home living conditions associated with indoor endotoxin levels. J Allergy Clin Immunol. 2001;107:790-6. PMID: 11344344.
293. Hamilos DL, **Leung DYM**, Muro S, Kahn AM, Hamilos SS, Thawley SE, Hamid QA. GRbeta expression in nasal polyp inflammatory cells and its relationship to the anti-inflammatory effects of intranasal fluticasone. J Allergy Clin Immunol. 2001;108:59-68. PMID: 11447383.
294. Cho SH, Strickland I, Boguniewicz M, **Leung DYM**. Fibronectin and fibrinogen contribute to the enhanced binding of *Staphylococcus aureus* to atopic skin. J Allergy Clin Immunol. 2001;108:269-74. PMID: 11496245.
295. Boguniewicz M, Sampson H, Leung SB, Harbeck R, **Leung DYM**. Effects of cefuroxime axetil on *Staphylococcus aureus* colonization and superantigen production in atopic dermatitis. J Allergy Clin Immunol. 2001;108:651-2. PMID: 11590398.
296. Boguniewicz M, **Leung DYM**. Pathophysiologic mechanisms in atopic dermatitis. Semin Cut Med Surg. 2001;20:217-25. PMID: 11770908.
297. Spahn JD, Fost DA, Covar R, Martin RJ, Brown EE, Szeffler SJ, **Leung DYM**. Clarithromycin potentiates glucocorticoid responsiveness in patients with asthma: results of a pilot study. Clarithromycin potentiates glucocorticoid responsiveness in patients with asthma: results of a pilot study. Ann Allergy Asthma Immunol. 2001;87:501-5. PMID: 11770698.
298. Kang S, Lucky AW, Pariser D, Lawrence I, Hanifin JM, (**Leung DYM** as part of the Tacrolimus Ointment Study Group). Long-term safety and efficacy of tacrolimus ointment for the treatment of atopic dermatitis in children. J Am Acad Dermatol. 2001;44:S58-64. PMID: 11145796.
299. Cho S-H, **Leung DYM**. Pathobiology and role of superantigens in human diseases. J Allergy Clin Immunol. 2001;21:1125-38.
300. Travers JB, Norris DA, **Leung DYM**. The keratinocyte as a target for staphylococcal bacterial toxins.

- J Invest Dermatol Symp Proceed. 2001;6:225-30. PMID: 11924832.
301. **Leung DYM**, Boguniewicz M. Atopic dermatitis management: Pharmacologic tools of the trade. Allergy Rheumatol Immunol Asthma. 2002;3:1-2.
302. **Leung DYM**, Nicole NH. Atopic dermatitis management: Nonpharmacologic tools of the trade. Allergy Rheumatol Immunol Asthma. 2002;3:3-4.
303. Ong PY, Hamid QA, Travers JB, Strickland I, Al Kerithy M, Boguniewicz M, **Leung DYM**. Decreased IL-15 may contribute to elevated IgE and acute inflammation in atopic dermatitis. J Immunol. 2002;168:505-10. PMID: 11751999.
304. **Leung DYM**, Spahn JD, Szeffler SJ. Steroid-unresponsive asthma. Semin Respir Crit Care Med. 2002;23:387-98. PMID: 16088632.
305. **Leung DYM**, Meissner HC, Shulman ST, Mason WH, Gerber MA, Glodé MP, Myones BL, Wheeler JG, Ruthazer R, Schlievert PM. Prevalence of superantigen-secreting bacteria in patients with Kawasaki disease. J Pediatr. 2002;140:742-6. PMID: 12072880.
306. Beres SB, Sylva GL, Barbian KD, Lei B, Hoff JS, Mammarella ND, Liu MY, Smoot JC, Porcella SF, Parkins LD, Campbell DS, Smith TM, McCormick JK, **Leung DYM**, Schlievert PM, Musser JM. Genome sequence of a serotype M3 strain of group A *Streptococcus*: phage-encoded toxins, the high-virulence phenotype, and clone emergence. Proc Natl Acad Sci USA. 2002;99:10078-83. PMID: PMC126627.
307. Hauk PJ, Goleva E, Gutierrez J, Strickland I, Vottero A, Chrousos GP, Kisich KO, **Leung DYM**. Increased glucocorticoid receptor beta expression converts mouse hybridoma cells to a corticosteroid insensitive phenotype. Am J Resp Cell Mol Biol. 2002;27:361-7. PMID: 12204899.
308. Engler RJ, Kenner J, **Leung DY**. Smallpox vaccination: Risk considerations for patients with atopic dermatitis. J Allergy Clin Immunol. 2002;110:357-65. PMID: 12209080.
309. Goleva E, Kisich KO, **Leung DYM**. A Role for STAT5 in the pathogenesis of IL-2 induced glucocorticoid resistance. J Immunol. 2002;169:5934-40. PMID: 12421978.
310. Smoot LM, McCormick JK, Smoot JC, Hoe NP, Strickland I, Cole RL, Barbian KD, Earhart CA, Ohlendorf DH, Veasy LG, Hill HR, **Leung DY**, Schlievert PM, Musser JM. Characterization of two novel pyrogenic toxin superantigens made by an acute rheumatic fever clone of *Streptococcus pyogenes* associated with multiple disease Outbreaks. Infect Immun. 2002;70:7095-104. PMID: PMC133074.
311. Orwin PM, **Leung DY**, Tripp TJ, Bohach GA, Earhart CA, Ohlendorf DH, Schlievert PM. Characterization of a novel staphylococcal enterotoxin-like superantigen, a member of the group V subfamily of pyrogenic toxins. Biochemistry. 2002;41:14033-40. PMID: 12437361.
312. Ong PY, Ohtake T, Brandt C, Strickland I, Boguniewicz M, Ganz T, Gallo RL, **Leung DY**. Endogenous antimicrobial peptides and skin infections in atopic dermatitis. N Engl J Med. 2002 Oct;347:1151-60. PMID: 12374875.
313. Ong PY, **Leung DY**. The chemokine receptor CCR6 identifies interferon-gamma expressing T cells and is decreased in atopic dermatitis as compared with psoriasis. J Invest Dermatol. 2002;119:1463-4. PMID: 12485455.
314. Eichenfield LF, Hanifin JM, Beck LA, Lemanske RF, Jr, Sampson HA, Weiss ST, **Leung DY**. Atopic dermatitis and asthma: parallels in the evolution of treatment. Pediatrics. 2003;111:608-16. PMID: 12612244.
315. **Leung DY**, Sampson HA, Yunginger JW, Burks AW Jr, Schneider LC, Wortel CH, Davis FM, Hyun JD, Shanahan WR Jr, for the TNX-901 Peanut Allergy Study Group. Effect of anti-IgE therapy (TNX-901) in patients with peanut allergy. N Engl J Med. 2003 Mar;348(11):986-993. PMID: 12637608.
316. **Leung DY**, Bieber T. Atopic dermatitis. Lancet. 2003;361(9352):151-60. PMID: 12531593.
317. **Leung DY**, Bloom JW. Update on glucocorticoid action and resistance. J Allergy Clin Immunol.

2003;111:3-22. PMID: 1532089.

318. Bender B, Leung SB, **Leung DY**. Actigraphy assessment of sleep disturbance in patients with atopic dermatitis: An objective life quality measure. J Allergy Clin Immunol. 2003;111:598-602. PMID: 12672843.
319. Ellis C, Luger T, Abeck D, Allen R, Graham-Brown RAC, de Prost Y, Eichenfield LF, Ferrandiz C, Giannetti A, Hanifin J, Koo JY, **Leung DY**, Lynde C, Ring J, Ruiz-Maldonado R, Saurat J-H. *International Consensus Conference, Atopic Dermatitis II (ICCAD II): clinical update and current treatment strategies*. Br J Dermatol. 2003;148:3-10. PMID: 12694268.
320. Orwin PM, J. Ross Fitzgerald JR, **Leung DY**, Gutierrez JA, Bohach GA, Schlievert PM. Characterization of *Staphylococcus aureus* enterotoxin L. Infect Immun. 2003;71:2916-9. PMCID: PMC153286.
321. Toda M, **Leung DY**, Molet S, Boguniewicz M, Taha R, Christodoulopoulos P, Fukuda T, Elias JA, Hamid QA. Polarized *in vivo* expression of IL-11 and IL-17 between acute and chronic skin lesions. J Allergy Clin Immunol. 2003;111:875-81. PMID: 12704372.
322. Travers JB, **Leung DY**, Johnson C, Schlievert P, Marques M, Cosgrove J, Clay KL. Augmentation of staphylococcal atoxin signaling by the epidermal platelet-activating factor receptor. J Invest Dermatol. 2003;120:789-94. PMID: 12713583.
323. **Leung DY**. Infection in atopic dermatitis. Curr Opin Pediatr. 2003;15:399-404.
324. **Leung DY** Boguniewicz M. Advances in allergic skin diseases. J Allergy Clin Immunol. 2003;111:S805-12.
325. Xu Q, **Leung DY**, Kisich KO. Serine-arginine-rich protein p30 directs alternative splicing of glucocorticoid receptor pre-mRNA to glucocorticoid receptor beta in neutrophils. J Biol Chem. 2003;278:27112-8. PMID: 12738786.
326. **Leung DY**, Bock SA. Progress in peanut allergy research: are we closer to a cure? J Allergy Clin Immunol. 2003;112:12-4. PMID: 12847473.
327. **Leung DYM**, Nelson HS, Szefer SJ, Busse WW. Esophagitis from pollens? J Allergy Clin Immunol. 2003;112(4):641.
328. Meissner HC, **Leung DY**. Kawasaki syndrome: Where are the answers? Pediatr. 2003;112:672-6. PMID: 12949301.
329. Gallo RL, **Leung DYM**. Antimicrobial peptides in the skin. N Engl J Med. 2003;348:362.
330. Nomura I, Goleva E, Howell MD, Hamid QA, Ong PY, Hall CF, Darst MA, Gao B, Boguniewicz M, Travers JB, **Leung DY**. Cytokine milieu of atopic dermatitis, as compared to psoriasis, skin prevents induction of innate immune response genes. (Featured on **cover** of 9/13/2003 issue) J Immunol. 2003;171:3262-9. PMID: 12960356.
331. Nomura I, Gao B, Boguniewicz M, Darst MD, Travers JB, **Leung DY**. Distinct patterns of gene expression in the skin lesions of atopic dermatitis and psoriasis: a gene microarray analysis. J Allergy Clin Immunol. 2003;112:1195-202. PMID: 14657882.
332. **Leung DY**, Jain N, Leo HL. New concepts in the pathogenesis of atopic dermatitis. Curr Opin Immunol. 2003;15:634-8. PMID: 14630196.
333. Novak N, Bieber T, **Leung DY**. Immune mechanisms leading to atopic dermatitis. J Allergy Clin Immunol. 2003;112:S128-39. PMID: 14657843.
334. Howell MD, Jones JF, Kisich KO, Streib JE, Gallo RL, **Leung DY**. Selective killing of vaccinia virus by LL-37: implications for eczema vaccinatum. J Immunol. 2004;172:1763-7. PMID: 14734759.
335. Xu Q, Goleva E, Ou L-S, **Leung DY**. CD56+ cells induce steroid resistance in B-cells exposed to IL-15. J Immunol. 2004;172:7110-5. PMID: 15153534.
336. Sicherer SH, **Leung DY**. Advances in allergic skin disease, anaphylaxis, and hypersensitivity

- reactions to foods, drugs, and insect stings. J Allergy Clin Immunol. 2004;114(1):118-24. PMID: 15241353.
337. Ou L-S, Goleva E, **Leung DY**. T regulatory cells in atopic dermatitis and subversion of their activity by superantigens. J Allergy Clin Immunol. 2004;113:756-63. PMID: 15100684.
338. **Leung DY**, Shanahan WR, Li XM, Sampson H. New approaches for the treatment of anaphylaxis. Novartis Found Symp. 2004;257:248-60. PMID: 15025403.
339. **Leung DY**, Boguniewicz M, Howell MD, Nomura I, Hamid Q. New insights into atopic dermatitis. J Clin Invest. 2004;113:651-7. PMID: PMC351324.
340. Fakhri S, Tulic M, Christodoulopoulos P, Fukakusa M, Frenkiel S, **Leung DY**, Hamid QA. Microbial superantigens induce glucocorticoid receptor beta and steroid resistance in a nasal explant model. Laryngoscope. 2004;114:887-92. PMID: 15126750.
341. Goleva E, Dunlap A, **Leung DY**. Differential control of Th1 vs Th2 cell responses by the combination of low dose steroids with beta-2 adrenergic agonists. J Allergy Clin Immunol. 2004;114:183-91. PMID: 15241363.
342. Leo H, Bender BG, Leung SB, Tran ZY, **Leung DY**. Effect of pimecrolimus cream 1% on skin condition and sleep disturbance in children with atopic dermatitis. J Allergy Clin Immunol. 2004;114:691-3. PMID: 15446293.
343. **Leung DY**, Nicklas RA, Li JT, Bernstein IL, Blessing-Moore J, Boguniewicz M, Chapman JA, Khan DA, Lang D, Lee RE, Portnoy JM, Schuller DE, Spector SL, Tilles SA. Disease management of atopic dermatitis: an updated practice parameter. Joint Task Force on Practice Parameters. Ann Allergy Asthma Immunol. 2004;93(3 Suppl 2):S1-S21. PMID: 15478395.
344. Li L, Goleva E, **Leung DY**. Superantigen-induced corticosteroid resistance of human T cells occurs via activation of the MEK/ERK pathway. J Allergy Clin Immunol. 2004;114:1059-69. PMID: 15536411.
345. Nomura I, Abe J, Noma S, Saito H, Gao B, Wheeler G, **Leung DYM**. Adrenomedullin is highly expressed in blood monocytes associated with acute Kawasaki disease: A microarray gene expression study. Pediatr Res. 2005;57:49-55. PMID: 15531734.
346. Colice GL, Stampone P, **Leung DYM**, Szeffler SJ. Oral corticosteroids in poorly controlled asthma. J Allergy Clin Immunol. 2005;115:200-01. PMID: 15637569.
347. Goleva E, **Leung DYM**. Reply re: Differential control of Th1 vs Th2 cell responses by the combination of low dose steroids with beta-2 adrenergic agonists. J Allergy Clin Immunol. 2005;115:425.
348. Federico MJ, Covar RA, Brown EE, **Leung DYM**, Spahn JD. Racial differences in T lymphocyte response to glucocorticoids. Chest. 2005; 127:571-8. PMID: 15705998
349. **Leung DYM**, Boguniewicz M, Nicol NH, Lairsmith J. Advances in our understanding and management of atopic dermatitis. Natl Jewish Med Sci Update. 2005;22:1-11.
350. Braff MH, Hawkins MA, Di Nardo A, Lopez-Garcia B, Howell MD, Wong C, Lin K, Streib JE, Dorschner R, **Leung DYM**, Gallo RL. Structure-function relationships among human cathelicidin peptides: Dissociation of antimicrobial properties from host immunostimulatory activities. J Immunol. 2005;174:4271-8. PMID: 15778390.
351. Ou L-S, **Leung DY**. Advances in atopic dermatitis. Chang Gung Med J. 2005;28:1-8. PMID: 15804142.
352. Howell MD, Novak N, Bieber T, Pastore S, Girolomoni G, Boguniewicz M, Streib J, Wong C, Gallo RL, **Leung DYM**. IL-10 down-regulates anti-microbial peptide expression in atopic dermatitis. J Invest Dermatol. 2005;125:738-45. PMID: 16185274.
353. Fonacier L, Spergel J, Charlesworth EN, Weldon D, Beltrani, V, Bernhisel-Broadbent J, Boguniewicz M, **Leung DY**. Report of the Topical Calcineurin Inhibitor Task Force of the American

- College of Allergy, Asthma and Immunology and the American Academy of Allergy, Asthma and Immunology. J Allergy Clin Immunol. 2005;115(6):1249-53. PMID: 15940142.
354. Goleva E, Cardona ID, Ou LS, **Leung DY**. Factors that regulate naturally occurring T regulatory cell-mediated suppression. J Allergy Clin Immunol. 2005;116:1094-100. PMID: 16275382.
355. Milgrom H, Palmer E, **Leung DY**. Smallpox vaccination: a conundrum of risks and outcomes. Curr Opin Allergy Clin Immunol. 2005;5(3):207-9. PMID: 15864076.
356. Bender BG, **Leung DY**. Sleep disorders in patients with asthma, atopic dermatitis, and allergic rhinitis. J Allergy Clin Immunol. 2005;116:1200-1. PMID: 16337445.
357. **Leung DY**. Superantigens, steroid insensitivity and innate immunity in atopic eczema. Acta Derm Venereol Suppl. 2005;215:11-15. PMID: 16321901.
358. Bilborough J, **Leung DYM**, Maurer M, Howell M, Boguniewicz M, Yao L, Storey H, Cosette LeCiel C, Harder B, Gross JA. IL-31 is associated with CLA⁺ skin homing T cells in patients with atopic dermatitis. J Allergy Clin Immunol. 2006;117:418-25. PMID: 16461143.
359. Schatz M, **Leung DY**, Goldstein S. Consultation and referral guidelines citing the evidence: How the allergist-immunologist can help. J Allergy Clin Immunol Suppl. 2006;117(2)Suppl 3:S495-S523. PMID: 16553071.
360. Boguniewicz M, **Leung DY**. Atopic dermatitis. J Allergy Clin Immunol. 2006;117:S475-80. PMID: 16455350.
361. Howell MD, Gallo RL, Boguniewicz M, Jones JF, Wong C, Streib JE, **Leung DY**. Cytokine milieu of atopic dermatitis skin subverts the innate immune response to vaccinia virus. Immunity. 2006 Mar;24(3):341-8. PMID: 16546102.
362. Li LB, **Leung DY**, Hall CF, Goleva E. Divergent expression and function of glucocorticoid receptor beta in human monocytes and T cells. J Leukoc Biol. 2006;79:818-27. PMID: 16461744.
363. Goleva E, Li L, Eves PT, Strand MJ, Martin RJ, **Leung DY**. Increased glucocorticoid receptor beta alters steroid response in glucocorticoid insensitive asthma. Am J Respir Crit Care Med. 2006;173:607-16. PMID: PMC2662945.
364. Cardona ID, Ou L-S, Goleva E, **Leung DY**. Staphylococcal enterotoxin B inhibits regulatory T cells by inducing glucocorticoid induced TNF receptor-related protein ligand on monocytes. J Allergy Clin Immunol. 2006;117(3): 688-695. PMID: 16522472.
365. Howell MD, Wollenberg A, Gallo RL, Flaig M, Streib JE, Wong C, Pavicic T, Boguniewicz M, **Leung DY**. Cathelicidin deficiency predisposes to eczema herpeticum. J Allergy Clin Immunol. 2006;117(4):836-41. PMID: PMC2727734.
366. Liu AH, **Leung DY**. Renaissance of the hygiene hypothesis. J Allergy Clin Immunol. 2006;117(5):1063-6. PMID: 16675333.
367. Poole JA, Barriga K, **Leung DY**, Hoffman M, Eisenbarth GS, Rewers M, Norris JM. Timing of initial exposure to cereal grains and the risk of wheat allergy. Pediatrics. 2006;117(6):2175-82. PMID: 16740862.
368. Homey B, Steinhoff M, Ruzicka T, **Leung DY**. Cytokines and chemokines orchestrate atopic skin inflammation. J Allergy Clin Immunol. 2006;118(1):178-189. PMID: 16815153.
369. Sicherer SH, **Leung DY**. Advances in allergic skin disease, anaphylaxis, and hypersensitivity reactions to foods, drugs, and insects. J Allergy Clin Immunol. 2006;118(1):170-7. PMID: 16815152.
370. Akdis CA, Akdis M, Bieber T, Bindslev-Jensen C, Boguniewicz M, Eigenmann P, Hamid Q, Kapp A, **Leung DY**, Lipozencic J, Luger TA, Muraro A, Novak N, Platts-Mills TA, Rosenwasser L, Scheynius A, Simons FE, Spergel J, Turjanmaa K, Wahn U, Weidinger S, Werfel T, Zuberbier T; the European Academy of Allergology and Clinical Immunology/American Academy of Allergy, Asthma and Immunology/PRACTALL Consensus Group*. Diagnosis and treatment of atopic dermatitis in children and adults: European Academy of Allergology and Clinical Immunology/American Academy

- of Allergy, Asthma and Immunology/PRACTALL Consensus Report. Allergy. 2006 Aug;61(8):969-87. PMID: 16867052.
371. Akdis CA, Akdis M, Bieber T, Bindslev-Jensen C, Boguniewicz M, Eigenmann P, Hamid Q, Kapp A, **Leung DY**, Lipozencic J, Luger TA, Muraro A, Novak N, Platts-Mills TA, Rosenwasser L, Scheynius A, Simons FE, Spergel J, Turjanmaa K, Wahn U, Weidinger S, Werfel T, Zuberbier T; European Academy of Allergology and Clinical Immunology/American Academy of Allergy, Asthma and Immunology. Diagnosis and treatment of atopic dermatitis in children and adults: European Academy of Allergology and Clinical Immunology/American Academy of Allergy, Asthma and Immunology/PRACTALL Consensus Report. J Allergy Clin Immunol. 2006;118:152-69. PMID: 16815151.
372. Boguniewicz M, Schmid-Grendelmeier P, **Leung DY**. Atopic dermatitis. J Allergy Clin Immunol. 2006;118:40-43. PMID: 16815136.
373. **Leung DY**. New insights into the complex gene-environment interactions evolving into atopic dermatitis. J Allergy Clin Immunol. 2006;118(1):37-39. No PubMed
374. Spergel JM, **Leung DY**. Safety of topical calcineurin inhibitors in atopic dermatitis: evaluation of the evidence. Curr Allergy Asthma Rep. 2006;6(4): 270-4. PMID: 16822378.
375. Fiset PO, **Leung DY**, Hamid Q. Immunopathology of atopic dermatitis. J Allergy Clin Immunol. 2006;118(1):287-90. PMID: 16815171.
376. Ong PY, **Leung DY**. Immune dysregulation in atopic dermatitis. Curr Allergy Asthma Rep. 2006;6:384-389. PMID: 16899200.
377. Fonacier L, Charlesworth EN, Spergel JM, **Leung DY**. The black box warning for topical calcineurin inhibitors: looking outside the box. Ann Allergy Asthma Immunol. 2006;97(1):117-20. PMID: 16892793.
378. Cardona ID, Cho SH, **Leung DY**. Role of bacterial superantigens in atopic dermatitis: Implications for future therapeutic strategies. Am J Clin Dermatol. 2006;7(5):273-9. PMID: 17007538.
379. Howell MD, Boguniewicz M, Pastore S, Novak N, Bieber T, Girolomoni G, **Leung DYM**. Mechanism of HBD-3 deficiency in atopic dermatitis. Clin Immunol. 2006;121:332-8. PMID: 17015038.
380. Kim BE, **Leung DY**, Streib JE, Boguniewicz M, Hamid QA, Howell MD. Macrophage inflammatory protein 3 alpha (MIP-3alpha) deficiency in AD skin and role in innate immune response to vaccinia virus. J Allergy Clin Immunol. 2007;119(2):457-63. PMCID: PMC2746067.
381. Salt BH, Boguniewicz M, **Leung DYM**. Severe refractory atopic dermatitis in adults is highly atopic. J Allergy Clin Immunol. 2007;119(2):508-509. PMID: 17194471.
382. Brouillard J-NP, Günther S, Varma AK, Gyski I, Herfst CA, Nur-ur Rahman AKM, **Leung DYM**, Schlievert PM, Madrenas J, Sundberg EJ, McCormick JK. Crystal structure of the streptococcal superantigen SpeI and functional role of a novel loop domain in T cell activation by Group V superantigens. J Mol Biol. 2007;367(4):925-34. PMID: 17303163.
383. Howell MD, Streib JE, **Leung DYM**. Antiviral activity of human beta defensin 3 against vaccinia virus. J Allergy Clin Immunol. 2007;119(4):1022-5. PMCID: PMC2668144
384. Peng W, Jenneck C, Bussmann C, Bogdanow M, Hart J, **Leung DY**, Bieber T, Eis-Hübinger AM, Novak N. Risk factors of atopic dermatitis patients for eczema herpetiucum. J Invest Dermatol. 2007;127(5):1261-3. PMID: 17170734.
385. Sicherer SH, **Leung DY**. Advances in allergic skin disease, anaphylaxis, and hypersensitivity reactions to foods, drugs, and insects. J Allergy Clin Immunol. 2007;119(6):1462-9. PMID: 17412401.
386. Albanesi C, Fairchild HR, Madonna S, Scarponi C, De Pità O, **Leung DYM**, Howell MD IL-4 and IL-13 negatively regulate TNF- α and IFN- γ induced α -defensin expression through STAT-6, SOCS-1, and SOCS-3. J Immunol. 2007;179:984-92. PMID: 17617590.

387. Howell MD, Kim BE, Gao P, Grant AV, Boguniewicz M, DeBenedetto A, Schneider L, Beck LA, Barnes KC, **Leung DYM**. Cytokine modulation of AD filaggrin skin expression. J Allergy Clin Immunol. 2007;120(1):150-5. PMID: PMC2669594.
388. Simons FER, Frew AJ, Ansotegui IJ, Bochner BS, Golden DBK, Finkelman FD, **Leung DYM**, Lotvall J, Marone G, Metcalfe DD, Müller U, Rosenwasser LJ, Sampson HA, Schwartz LB, van Hage M, Walls AF. Risk assessment in anaphylaxis: Current and future approaches. J Allergy Clin Immunol. 2007;120(Suppl 1): S2-S24. PMID: 17602945.
389. Li L, **Leung DYM**, Strand MJ, Goleva E. ATF2 impairs glucocorticoid receptor-mediated transactivation in human CD8⁺ T cells. Blood. 2007;110:1570-1577. PMID: PMC1975841.
390. Kisich KO, Howell MD, Boguniewicz M, Heizer HR, Watson NU, **Leung DY**. The constitutive capacity of human keratinocytes to kill *Staphylococcus aureus* is dependent on beta-defensins 2 and 3. J Invest Dermatol. 2007;127(10):2368-80. PMID: 17460726.
391. Scott JE, EIKhal A, Freyschmidt EJ, MacArthur DH, McDonald D, Howell MD, **Leung DY**, Laouar A, Manjunath N, Bianchi T, Boes M, Oettgen HC, Geha RS. Impaired immune response to vaccinia virus inoculated at the site of cutaneous allergic inflammation. J Allergy Clin Immunol. 2007; 20:1382-8. PMID: 17889291.
392. Goleva E, Hauk PJ, Boguniewicz J, Martin RJ, **Leung DYM**. Airway remodeling and lack of bronchodilator response in steroid resistant (SR) asthma. J Allergy Clin Immunol. 2007;120:1065-72. PMID: PMC2697657.
393. Platts-Mills T, **Leung DY**, Schatz M. The role of allergens in asthma. Am Fam Phys. 2007;76(5):675-80. PMID: 17894137.
394. **Leung DYM**, Woodward G. The Journal: Adapting to change, positioning ourselves for the future. J Allergy Clin Immunol. 2008;121(1):24-25.
395. Sicherer SH, **Leung DY**. Advances in allergic skin disease, anaphylaxis, and hypersensitivity reactions to foods, drugs, and insects in 2007. J Allergy Clin Immunol. 2008;121(6):1351-8. PMID: 18325575.
396. Man MQ, Hatano Y, Lee SH, Man M, Chang S, Feingold KR, **Leung DY**, Holleran W, Uchida Y, Elias PM. Characterization of a hapten-induced, murine model with multiple features of atopic dermatitis: structural, immunologic, and biochemical changes following single versus multiple oxazolone challenges. J Invest Dermatol. 2008;128:79-86. PMID: PMC2671229.
397. Simons FE, Frew AJ, Ansotegui IJ, Bochner BS, Golden DB, Finkelman FD, **Leung DY**, Lotvall J, Marone G, Metcalfe DD, Muller U, Rosenwasser LJ, Sampson HA, Schwartz LB, van Hage M, Walls AF. Practical allergy (PRACTALL) report: risk assessment in anaphylaxis. Allergy. 2008;63(2):250. PMID: 18053014.
398. Bender BG, Ballard RA, Canono B, Murphy JR, **Leung DYM**. Disease severity, scratching, and sleep quality in patients with atopic dermatitis. J Am Acad Dermatol. 2008;58:415-20. PMID: 18280338.
399. Schlievert PM, Case LC, Strandberg KL, Abram BB, **Leung DYM**. Superantigen profile of *Staphylococcus aureus* isolates from patients with steroid-resistant atopic dermatitis. Clin Infect Dis. 2008;46;(10):1562-7. PMID: PMC2637450.
400. Kim BE, **Leung DYM**, Boguniewicz M, Howell MD. Loricrin and involucrin expression is down-regulated by Th2 cytokines through STAT-6. Clin Immunol. 2008;126:332-7. PMID: PMC2275206.
401. Sicherer SH, **Leung DYM**. Advances in allergic skin disease, anaphylaxis, and hypersensitivity reactions to foods, drugs, and insects. J Allergy Clin Immunol. 2008;121(6):1351-8. PMID: 19203656.
402. Kisich KO, Carspecken CW, Fiévé S, Boguniewicz M, **Leung DY**. Defective killing of *Staphylococcus aureus* in atopic dermatitis is associated with reduced mobilization of human α -defensin-3. J Allergy Clin Immunol. 2008;122:62-8. PMID: 18538383.

403. Boguniewicz M, Nicol N, Kelsay K, **Leung DYM**. A multidisciplinary approach to evaluation and treatment of atopic dermatitis. Sem Cut Med Surg. 2008; 27(2):115-27. PMID: 18620133.
404. Howell MD, Fairchild HR, Kim BE, Bin L, Boguniewicz M, Redzic JS, Hansen KC, **Leung DY**. Th2 cytokines act on S100/A11 to downregulate keratinocyte differentiation. J Invest Dermatol. 2008;128:2248-58. PMID: 18385759.
405. Sutherland R, Goleva E, Strand M, Beuther D, **Leung DY**. Body mass and glucocorticoid response in asthma. Am J Respir Crit Care Med. 2008;178(7):682-7. PMID: PMC2556450.
406. Hauk PJ, Krawiec M, Murphy J, Boguniewicz J, Schiltz A, Goleva E, Liu AH, **Leung DY**. Neutrophilic airway inflammation and environmental exposure to bacterial lipopolysaccharide in children with asthma and wheezing. Pediatr Pulm. 2008;43(9):916-23. PMID: 18668688.
407. Morioka Y, Yamasaki K, **Leung D**, Gallo RL. Cathelicidin antimicrobial peptides inhibit hyaluronan-induced cytokine release and modulate chronic allergic dermatitis. J Immunol. 2008;181:3915-22. PMID: PMC2655305.
408. Goleva E, Hauk PJ, Hall CF, Liu AH, Martin RJ, **Leung DY**. Corticosteroid resistant asthma associated with classical microbial activation of airway macrophages. J Allergy Clin Immunol. 2008;122(3):550-9. PMID: 18774390.
409. **Leung DY**. Directing the innate immune response to prevent and control allergic diseases. J Allergy Clin Immunol. 2008;122(5):893-4. PMID: 19000578.
410. Goleva E, Li L-B, **Leung DY**. IFN γ reverses IL-2 and IL-4 mediated T cell steroid resistance. Am J Respir Cell Mol Biol. 2009;40:223-30. PMID: PMC2633143.
411. Williams PV, Schatz M, **Leung DYM**. The role of allergens in asthma. Pediatrics (for Parents). 2009;25(3-4):22-24. PMID not on Medline.
412. **Leung DY**, Hanifin JM, Pariser DM, Barber KA, Langley RG, Schlievert PM, Abrams B, Hultsch T. Effects of pimecrolimus cream 1% in the treatment of patients with atopic dermatitis who demonstrate a clinical insensitivity to topical corticosteroids: a randomized, multicentre vehicle-controlled trial. Br J Dermatol. 2009;161:435-43. PMID: 19416245.
413. Bin L, Howell MD, Kim BE, Hall CF, Streib JE, **Leung DYM**. Inhibition of S100A11 gene expression impairs keratinocyte response against vaccinia virus through down-regulation of the IL-10 receptor 2 chain. J Allergy Clin Immunol. 2009;124(2):270-277. PMID: 19577285.
414. Zhang Y, Goleva E, Nordeen SK, **Leung DYM**. Estrogen inhibits glucocorticoid action via protein phosphatase 5 mediated glucocorticoid receptor dephosphorylation at S211. J Biol Chem. 2009;284(36):24542-52. PMID: PMC2782045.
415. Beck LA, Boguniewicz M, Hata TR, Schneider LC, Hanifin JM, Gallo RL, Paller AS, Lieff S, Reese J, Zaccaro D, Milgrom H, Barnes KC, **Leung DYM**. Phenotype of atopic dermatitis: Subjects with a history of eczema herpeticum. J Allergy Clin Immunol. 2009;124(2):260-9. PMID: PMC3056058.
416. Pallin DJ, Espinola JA, **Leung DY**, Hooper DC, Camargo Jr CA. Epidemiology of dermatitis and skin infections in US physicians' offices, 1993-2005. Clin Infect Dis. 2009;49:901-7. PMID: 19663690.
417. Gao PS, Rafaels NM, Hand T, Murray T, Boguniewicz M, Hata T, Schneider L, Hanifin JM, Gallo RL, Gao L, Beaty TH, Beck LA, Barnes KC, **Leung DY**. Filaggrin mutations that confer risk of atopic dermatitis confer greater risk for eczema herpeticum. J Allergy Clin Immunol. 2009;124(3):507-13. PMID: 19733298.
418. **Leung DY**. Our evolving understanding of the functional role of filaggrin in atopic dermatitis. J Allergy Clin Immunol. 2009;124(3):494-5. PMID: 19733296.
419. Oyoshi MK, Elkhail A, Kumar L, Scott JE, Koduru S, He R, **Leung DYM**, Howell MD, Oettgen HC, Murphy GF, Geha RS. Vaccinia virus inoculation in sites of allergic skin inflammation elicits a vigorous cutaneous IL-17 response. Proc Natl Acad Sci USA. 2009;106:14954-9. PMID:

PMC2736417.

420. Howell MD, Streib JE, Kim BE, Lesley LJ, Dunlap AP, Geng D, Feng Y, Savage PB, **Leung DY**. Ceragenins: A class of antiviral compounds to treat orthopox infections. J Invest Dermatol. 2009;129:2668–75. PMID: 19516269.
421. Byrne AM, Goleva E, **Leung DY**. Identification of glucocorticoid-induced TNF receptor-related protein ligand on keratinocytes: ligation by GITR induces keratinocyte chemokine production and augments T-cell proliferation. J Invest Dermatol. 2009;129(12):2784-94. PMID: 19536139.
422. Broccardo CJ, Mahaffey SB, Strand M, Reisdorph NA, **Leung DY**. Peeling off the layers: Skin taping and a novel proteomics approach to study atopic dermatitis. J Allergy Clin Immunol. 2009;124(5):1113-5. PMID: 19748658.
423. Sicherer SJ, **Leung DYM**. Advances in allergic skin disease, anaphylaxis, and hypersensitivity reactions to foods, drugs, and insects in 2009. J Allergy Clin Immunol. 2010;125:85-97. PMID: 20109740.
424. Grigoryev DN, Howell MD, Watkins TN, Chen Y-C, Cheadle C, Boguniewicz M, Barnes KC, **Leung DYM**. Vaccinia virus-specific molecular signature in atopic dermatitis skin. J Allergy Clin Immunol. 2010;125:153-9. PMID: PMC2814071.
425. Schlievert PM, Strandberg KL, Lin Y-C, Peterson ML, **Leung DYM**. Secreted virulence factor comparison between methicillin-resistant and methicillin-sensitive *Staphylococcus aureus*, and its relevance to atopic dermatitis. J Allergy Clin Immunol. 2010;125:39-49. PMID: PMC2814367.
426. Boguniewicz M, **Leung DYM**. Recent insights into atopic dermatitis and implications for management of infectious complications. J Allergy Clin Immunol. 2010;125(1):4-13. PMID: PMC2814072.
427. Sutherland ER, Goleva E, Jackson LP, Stevens AD, **Leung DYM**. Vitamin D levels, lung function and steroid response in adult asthma. Am J Respir Crit Care Med. 2010;181(7):699-704. PMID: PMC2868500.
428. Sehra S, Yao Y, Howell MD, Nguyen ET, Kansas GS, **Leung DYM**, Travers JB, Kaplan MH. IL-4 regulates skin homeostasis and the predisposition towards allergic skin inflammation. J Immunol. 2010;184:3186-90. PMID: PMC2837507.
429. Fonacier LS, Dreskin SC, **Leung DY**. Allergic skin diseases. J Allergy Clin Immunol. 2010;125(2 Suppl 2):S138-49. PMID: 19932921.
430. Searing DA, Zhang Y, Murphy JR, Hauk PJ, Goleva E, **Leung DYM**. Decreased serum vitamin D levels in children with asthma are associated with increased corticosteroid usage. J Allergy Clin Immunol. 2010;125:995-1000. PMID: PMC2866800.
431. Gao PS, Rafaels NM, Mu D, Hand T, Murray T, Boguniewicz M, Hata T, Schneider L, Hanifin JM, Gallo RL, Gao L, Beaty TH, Beck LA, **Leung DY**, Barnes KC. Genetic variants in thymic stromal lymphopoietin are associated with atopic dermatitis and eczema herpeticum. J Allergy Clin Immunol. 2010;125(6):1403-07.e4. PMID: PMC2925504.
432. Sicherer SH, Wood RA, Stablein D, Burks AW, Liu AH, Jones SM, Fleischer DM, **Leung DY**, Grishin A, Mayer L, Shreffler W, Lindblad R, Sampson HA. Immunologic features of infants with milk or egg allergy enrolled in an observational study (Consortium of Food Allergy Research) of food allergy. J Allergy Clin Immunol. 2010;125(5):1077-83.e8. PMID: PMC2868273.
433. Vazquez-Tello A, Semlali A, Chakir J, Martin JG, **Leung DY**, Eidelman DH, Hamid QA. Induction of glucocorticoid receptor-beta expression in epithelial cells of asthmatic airways by T-helper type 17 cytokines. Clin Exp Allergy. 2010;40(9):1312–22. PMID: 20545708.
434. Ong PY, **Leung DYM**. The infectious aspects of atopic dermatitis. Immunol Allergy Clin N Am. 2010;30:309-321. PMID: PMC2913147.
435. Searing DA, **Leung DYM**. Vitamin D in atopic dermatitis, asthma and allergic diseases. Immunol

Allergy Clin N Am. 2010;30:397-409. PMID: PMC2914320.

436. Hata TR, Kotoi P, Boguniewicz M, Taylor P, Paik A, Jackson M, Nguyen M, Kabigting F, Miller J, Gerber M, Zaccaro D, Armstrong B, Dorschner R, **Leung DY**, Gallo RL. History of eczema herpeticum is associated with the inability to induce human beta-defensin (HBD)-2, HBD-3 and cathelicidin in the skin of patients with atopic dermatitis. Br J Dermatol. 2010;163(3):659-61. PMID: PMC2966528.
437. **Leung DYM**, Searing DA. Steroid resistance in pulmonary diseases. Pulmonary Critical Care, Sleep Update (PCCSU) 2010;24:1-6. (No PMID).
438. Schneider L, Weinberg A, Boguniewicz M, Taylor P, Oettgen H, Heughan L, Zaccaro D, Armstrong B, Holliday A, **Leung DYM**. Immune response to Varicella vaccine in children with atopic dermatitis compared to non-atopic controls. J Allergy Clin Immunol. 2010;126(6):1306-7.e2. PMID: PMC2998561.
439. Liang Q, Guo L, Gogate S, Karim Z, Hanifi A, **Leung DY**, Gorska MM, Alam R. IL-2 and IL-4 stimulate MEK1 expression and contribute to T cell resistance against suppression by TGF- β and IL-10 in asthma. J Immunol. 2010;185(10):5704-13. PMID: PMC3367768.
440. Li LB, **Leung DYM**, Martin RJ, Goleva E. Inhibition of histone deacetylase 2 expression by elevated glucocorticoid receptor α in steroid-resistant asthma. Am J Respir Crit Care Med. 2010;182(7):877-83. PMID: PMC2970859.
441. Sicherer SH, Wood RA, Stablein D, Lindblad R, Burks AW, Liu AH, Jones SM, Fleischer DM, **Leung DYM**, Sampson HA. Maternal consumption of peanut during pregnancy is associated with peanut sensitization in atopic infants. J Allergy Clin Immunol. 2010;126:1191-7. PMID: PMC3018157.
442. Reginald K, Westritschnig K, Werfel T, Haratizadeh A, Novak N, Focke-Tejkl M, Hirschl AM, **Leung DYM**, Elisyutina O, Fedenko E, Valenta R. Immunoglobulin E antibody reactivity to bacterial antigens in atopic dermatitis patients. Clin Exp Allergy. 2011;41:357-69. PMID: PMC3057935.
443. Broccardo CJ, Mahaffey S, Schwarz J, Wruck L, David G, Schlievert PM, Reisdorph NA, **Leung DYM**. Comparative proteomic profiling of atopic dermatitis patients based on history of eczema herpeticum infection and *Staphylococcus aureus* colonization. J Allergy Clin Immunol. 2011;127:186-93.e11. PMID: PMC3059191.
444. Durham SR, **Leung DY**. One hundred years of allergen immunotherapy: time to ring the changes. J Allergy Clin Immunol. 2011;127(1):3-7. PMID: 21211638.
445. Sicherer SH, **Leung DY**. Advances in allergic skin disease, anaphylaxis, and hypersensitivity reactions to foods, drugs, and insects in 2010. J Allergy Clin Immunol. 2011;127(2):326-35. PMID: 21190728.
446. Bin L, Howell MD, Kim BE, Streib JE, Hall CF, **Leung DYM**. Specificity protein 1 is pivotal in the skin's anti-viral response. J Allergy Clin Immunol. 2011;127:430-8. PMID: PMC3734863.
447. Fleischer DM, Bock SA, Spears GC, Wilson CG, Miyazawa NK, Gleason MC, Gyorkos EA, Murphy JR, Atkins D, **Leung DYM**. Oral food challenges in children with a diagnosis of food allergy. J Pediatr. 2011;158(4):578-83. PMID: 21030035.
448. De Benedetto A, Rafaels NM, McGirt LY, Ivanov AI, Georas SN, Cheadle C, Berger AE, Zhang K, Vidyasagar S, Yoshida T, Boguniewicz M, Hata T, Schneider LC, Hanifin JM, Gallo RL, Novak N, Weidinger S, Beaty TH, **Leung DY**, Barnes KC, Beck LA. Tight junction defects in patients with atopic dermatitis. J Allergy Clin Immunol. 2011;127(3):773-86.e7. PMID: PMC3049863.
449. Schmitt J, Langan S, Stamm T, Williams HC on behalf of the Harmonizing Outcome Measurements in Eczema (HOME) Delphi panel. (**Leung DYM** as part of the Harmonizing Outcome Measurements in Eczema Delphi panel). Core outcome domains for controlled trials and clinical recordkeeping in eczema: International Multiperspective Delphi Consensus Process. J Invest Dermatol. 2011;131:623-30. PMID: 20944653.

450. **Leung DYM**, Gao PS, Grigoryev DN, Rafaels NM, Streib JE, Howell M D, Taylor PA, Boguniewicz M, Canniff J, Armstrong B, Zaccaro DJ, Schneider LC, Hata TR, Hanifin JM, Beck LA, Weinberg A, Barnes KC. Human atopic dermatitis complicated by eczema herpeticum is associated with abnormalities in gamma interferon response. J Allergy Clin Immunol. 2011;127:965-73.e5. PMID: PMC3074534.
451. Sampson HA, **Leung DYM**, Lack G, Bahna SL, Jones SM, Varshavsky J, Wong DA. A phase II, randomized, double-blind, parallel-group, placebo-controlled, oral food challenge trial of XOLAIR® (omalizumab) in peanut allergy. J Allergy Clin Immunol. 2011;127(5):1309-10.e1. PMID: 21397314.
452. Boguniewicz M, **Leung DYM**. Atopic dermatitis: A disease of altered skin barrier and immune dysregulation. Immunolog Rev. 2011;242(1):233-46. PMID: PMC3122139.
453. Kim BE, Howell MD, Guttman E, Gilleaudeau P, Cardinale I, Boguniewicz M, Krueger JG, **Leung DYM**. TNF-alpha down-regulates filaggrin and loricrin through c-Jun N-terminal kinase: Role for TNF-alpha antagonists to improve skin barrier. J Invest Dermatol. 2011;131(6):1272-9. PMID: 21346775.
454. De Benedetto A, Slifka MK, Rafaels NM, Kuo I-H, Georas SN, Boguniewicz M, Hata TR, Schneider LC, Hanifin JM, Gallo RL, Johnson DC, Barnes KC, **Leung DY**, Beck LA. Reductions in Claudin-1 may enhance susceptibility to HSV-1 infections in atopic dermatitis. J Allergy Clin Immunol. 2011;128(1): 242-6.e5. PMID: PMC3129463.
455. Sicherer SH, Wood RA, Stablein D, Lindblad R, Burks AW, Liu AH, Jones SM, Fleischer DM, **Leung DY**, Sampson HA. Reply to: Des Roches (regarding Sicherer SH, Wood RA, Stablein D, Lindblad R, Burks AW, Liu AH et al. Maternal consumption of peanut during pregnancy is associated with peanut sensitization in atopic infants. J Allergy Clin Immunol. 2011;128(1):249-50. PMID: PMC3018157.
456. Howell MD, Gao PS, Kim BE, Lesley LJ, Streib JE, Taylor PA, Zaccaro DJ, Boguniewicz M, Beck LA, Hanifin JM, Schneider LC, Hata TR, Gallo RL, Kaplan MH, Barnes KC, **Leung DYM**. The signal transducer and activator of transcription 6 gene (*STAT6*) increases propensity of patient with atopic dermatitis patients toward disseminated viral skin infections. J Allergy Clin Immunol. 2011;128(5):1006-14. PMID: PMC3205328.
457. Bin L, Kim BE, Hall CF, Leach SM, **Leung DYM**. Inhibition of transcription factor specificity protein 1 alters the gene expression profile of keratinocytes leading to up-regulation of kallikrein-related peptidases and TSLP. J Invest Dermatol. 2011;131:2213-2222. PMID: PMC3193562.
458. Lambrecht BN, **Leung DY**. Initiation and maintenance of allergic inflammation: team work at the interface of innate and adaptive immunity. Curr Opin Immunol. 2011;23(6):769-71. PMID: 22018456.
459. **Leung DY**. Early intervention in the management of atopic dermatitis. Asia Pac Allergy. 2011;1(2):51-2. PMID: PMC3206253.
460. Irvine AD, McLean WHI, **Leung DYM**. Filaggrin mutations: Associations with skin and allergic diseases. N Engl J Med. 2011 Oct; 365(14):1315-27. PMID: 21991953.
461. Novak N, **Leung DY**. Advances in Atopic dermatitis. Curr Opin Immunol. 2011;23(6):778-783. PMID: PMC3232325.
462. Milgrom H, Kesler K, Byron M, Harbeck RJ, Holliday R, **Leung DYM**. Response to cutaneous immunization with low molecular weight subunit of keyhole limpet hemocyanin. Int Arch Allergy Immunol. 2012;157(3):269-274. PMID: PMC3224512.
463. Byrne AM, Goleva E, Chouiali F, Kaplan MH, Hamid QA, **Leung DYM**. Induction of GITRL expression in human keratinocytes by Th2 cytokines: Implications for atopic dermatitis. Clin Exp Allergy. 2012;42(4):550-9. PMID: PMC3306062.
464. Goleva E, Searing DA, Jackson LP, Richers BN, **Leung DYM**. IgE, Steroid requirements and immune associations with vitamin D are stronger in children than adults with asthma. J Allergy Clin

Immunol. 2012;129(5):1243-51. PMID: PMC3340468.

465. Zhang Y, **Leung DYM**, Richers BN, Liu Y, Remigio LK, Riches DW, Goleva E. Vitamin D Inhibits Monocyte/macrophage Pro-inflammatory 1 Cytokine Production by Targeting Mitogen-Activated Protein Kinase Phosphatase 1. J Immunol. 2012;188(5):2127-35. PMID: PMC3368346.
466. Sicherer SH, **Leung DY**. Advances in allergic skin disease, anaphylaxis, and hypersensitivity reactions to foods, drugs, and insects in 2011. J Allergy Clin Immunol. 2012;129(1):76-85. PMID: 22196526.
467. Gao PS, **Leung DY**, Rafaels NM, Hand T, Boguniewicz M, Hataz T, Schneider L, Hanifin JM, Gallo RL, Gao L, Beaty TH, Beck L, Barnes KC. Genetic variants in interferon regulatory factor 2 (IRF2) are associated with atopic dermatitis and eczema herpeticum. J Investigative Dermatol. 2012;132(3 Pt 1):650-7. PMID: PMC3278591.
468. Goleva E, Jackson LP, Gleason M, **Leung DYM**. Usefulness of Peripheral Blood Mononuclear Cells (PBMCs) to Predict Clinical Response to Corticosteroids in Asthmatics. J Allergy Clin Immunol. 2012;129(3):687-693. PMID: PMC3294080.
469. Kim BE, **Leung DYM**. Epidermal Barrier in Atopic Dermatitis. Allergy Asthma Immunol Res. 2012;4(1):12-16. PMID: PMC3242054.
470. Sutherland ER, Goleva E, King TS, Lehman E, Stevens AD, Jackson LP, Stream AR, Fahy JV, **Leung DYM**. Cluster analysis of obesity and asthma phenotypes. PLoS One. 2012;7(5):e36631. PMID: PMC3350517.
471. Bin L, Kim BE, Brauweiler A, Goleva E, Streib J, J Yi, Schlievert PM, **Leung DYM**. Staphylococcus aureus α -toxin modulates skin host response to viral infection. J Allergy Clin Immunol. 2012;130(3):683-91. PMID: PMC3594992.
472. Ring J, Akdis C, Behrendt H, Lauener RP, Schappi G, **Leung DYM**, et al. Davos Declaration: allergy as a global problem. Allergy. 2012;67(2):141-3. PMID: 22235793.
473. Sicherer SH, **Leung DY**. Advances in allergic skin disease, anaphylaxis, and hypersensitivity reactions to foods, drugs, and insects in 2012. J Allergy Clin Immunol. 2013;131(1):55-66. PMID: 23199604.
474. Brauweiler AM, Bin L, Kim BE, Oyoshi MK, Geha RS, Goleva E, **Leung DYM**. Filaggrin-dependent secretion of sphingomyelinase protects against staphylococcal alpha-toxin-induced keratinocyte death. J Allergy Clin Immunol. 2013;131(2):421-27. PMID: PMC3742335.
475. Kelsay K, **Leung DYM**, Mrazek D, Klinnert M. Prospectively assessed early life experiences in relation to cortisol reactivity in adolescents at risk for asthma. Dev Psychobiol. 2013;55(2):133-44. PMID: 22314999.
476. Fernandez-Boyanapalli R, Goleva E, Kolakowski C, Min E, Day B, **Leung DYM**, Riches DWH, Bratton DL, Sutherland ER. Obesity impairs apoptotic cell clearance in asthma. J Allergy Clin Immunol. 2013;131:1041-47. PMID: 23154082.
477. Kuo IH, Carpenter-Mendini A, Yoshida T, McGirt LY, Ivanov AI, Barnes KC, Gallo RL, Borkowski AW, Yamasaki K, **Leung DY**, Georas SN, De Benedetto A, Beck LA. Activation of epidermal toll-like receptor 2 enhances tight junction function: implications for atopic dermatitis and skin barrier repair. J Invest Dermatol. 2013;133:988-98. PMID: PMC3600383.
478. Guttman-Yassky E, Dhingra N, **Leung DYM**. New era of biological therapeutics in atopic dermatitis. Expert Opin Biol Ther. 2013;13:549-61. PMID: PMC3819721.
479. Spaulding AR, Salgado-Pabon W, Kohler PL, Horswill AR, **Leung DYM**, Schlievert PM. Staphylococcal and streptococcal superantigen exotoxins. Clin Microbiol Rev. 2013;26(3):422-47. PMID: PMC3719495.
480. **Leung DYM**. Why is eczema herpeticum unexpectedly rare? Antiviral Res. 2013;98(2):153-57. PMID: PMC3773952.

481. **Leung DYM**. New insights into atopic dermatitis: role of skin barrier and immune dysregulation. Allergol Int. 2013;62(2):151-61. PMID: 23712284.
482. Mathias RA, Weinberg A, Boguniwicz M, Zaccaro DJ, Armstrong B, Schneider LC, Hata TR, Hanifin JM, Beck LA, Barns KC, **Leung DYM**. Atopic dermatitis complicated by eczema herpeticum is associated with HLA B7 and reduced gamma interferon producing CD8+ T cells. Br J Dermatol. 2013;169(3):700-3. PMID: 23600999.
483. Dakhama A, Collins ML, Ohnishi H, Goleva E, **Leung DY**, Alam R, Sutherland ER, Martin RJ, Gelfand EW. IL-13-producing BLT1-positive CD8 cells are increased in asthma and are associated with airway obstruction. Allergy. 2013;65:666-73. PMCID: PMC3630251.
484. Zhang Y, **Leung DY**, Goleva E. Vitamin D enhances glucocorticoid action in human monocytes: involvement of granulocyte-macrophage colony-stimulating factor and mediator complex subunit 14. J Biol Chem. 2013;288(20):14544-53. PMCID: PMC3656308.
485. Kim BE, Bin L, Ye YM, Ramamoorthy P, **Leung DYM**. IL-25 Enhances HSV-1 replication by inhibiting filaggrin expression, and acts synergistically with TH2 cytokines to enhance HSV-1 replication. J Invest Dermatol. 2013;133(12):2678-85. PMCID: PMC3785566.
486. Boguniewicz M, **Leung DY**. The ABC's of managing patients with severe atopic dermatitis. J Allergy Clin Immunol. 2013;132(2):511-12. PMCID: PMC3785088.
487. Mohiuddin MS, Curran-Everett D, **Leung DYM**. A familial study of filaggrin mutation in atopic dermatitis. Ann Allergy Asthma Immunol. 2013;111(4):302-4. PMID: 24054371.
488. Goleva E, Jackson LP, Harris JK, Robertson CE, Sutherland ER, Hall CF, Good JT Jr, Gelfand EW, Martin RJ, **Leung DY**. The effects of airway microbiome on corticosteroid responsiveness in asthma. Am J Respir Crit Care Med. 2013 Nov;188(10):1193-1201. PMCID: PMC3863730.
489. Mohiuddin MS, Curran-Everett D, **Leung DY**. Vitamin D and food allergy in patients with severe atopic dermatitis. J Allergy Clin Immunol. 2013;132(4):1011. PMID: 23954349.
490. Hata TR, Audish D, Kotol P, Coda A, Kabigting F, Miller J, Alexandrescu D, Boguniewicz M, Taylor P, Aertker L, Kesler K, Hanifin JM, **Leung DY**, Gallo RL. A randomized controlled double-blind investigation of the effects of vitamin D dietary supplementation in subjects with atopic dermatitis. J Eur Acad Dermatol Venereol. 2014;28(6):781-9. PMCID: PMC3769441.
491. Sicherer SH, **Leung DY**. Advances in allergic skin disease, anaphylaxis, and hypersensitivity reactions to foods, drugs, and insects in 2013. J Allergy Clin Immunol. 2014;133(2):324-34. PMID: 24373349.
492. Zhang Y, **Leung DYM**, Goleva E. Anti-inflammatory and corticosteroid-enhancing actions of Vitamin D in the monocytes of patients with steroid-resistant and those with steroid-sensitive asthma. J Allergy Clin Immunol. 2014;133(6):1744-52.e1. PMID: 24418482.
493. Chung EH, Jia Y, Ohnishi H, Katsuyuki Takeda, **Leung DYM**, Sutherland ER, Dakhama A, Martin RJ, Gelfand EW. Leukotriene B4 receptor 1 is differentially expressed on peripheral T cells of steroid-sensitive and -resistant asthmatics. Ann Allergy Asthma Immunol. 2014;112(3):211-16. PMCID: PMC3951978.
494. Brauweiler AM, Goleva E, **Leung DYM**. Th2 cytokines increase Staphylococcus aureus alpha toxin induced keratinocyte death through the signal transducer and activator of transcription 6 (STAT6). J Invest Dermatol. 2014;134(8):2114-21. PMID: 24468745.
495. Slifka MK, **Leung DYM**, Hammarlund E, Raue HP, Simpson EL, Tofte S, Baig-Lewis S, David G, Lynn H, Woolson R, Hata T, Milgrom H, Hanifin J. Transcutaneous yellow fever vaccination of subjects with or without atopic dermatitis. J Allergy Clin Immunol. 2014;133(2):439-47. PMCID: PMC3960337.
496. Young-Min Y, Kim BE, Shin YS, Park HS, **Leung DYM**. Increased epidermal filaggrin in chronic idiopathic urticarial is associated with severity of urticarial. Ann Allergy Asthma Immunol. 2014;112:533-38. PMCID: PMC4105176.

497. **Leung DYM**, Guttman-Yassky E. Deciphering the complexities of atopic dermatitis: shifting paradigms in treatment approaches. J Allergy Clin Immunol. 2014;134:769-79. PMID: PMC4186710.
498. Bin L, Edwards MG, Heiser R, Streib JE, Richers B, Hall CF, **Leung DYM**. Identification of novel gene signatures in patients with atopic dermatitis complicated by eczema herpeticum. J Allergy Clin Immunol. 2014;134:848-55. PMID: PMC4186924.
499. Judd LL, Schettler PJ, Brown ES, Wolkowitz OM, Sternberg EM, Bender BG, Cidlowski JA, de Kloet ER, Fardet L, Joëls M, **Leung DYM**, McEwen BS, Roozendaal B, Van Rossum EFC, Ahn J, Brown DW, Plitt A, Singh G. Adverse consequences of glucocorticoid medication: psychological, cognitive, and behavior effects. Am J Psychiatry. 2014;171:1045-1051. PMID: 25272344.
500. Sicherer SH, **Leung DYM**. Advances in allergic skin disease, anaphylaxis, and hypersensitivity reactions to foods, drugs, and insects in 2014. J Allergy Clin Immunol. 2015;135:357-67. PMID: 25662305.
501. Brauweiller AM, Goleva E, Hall CF, **Leung DYM**. Th2 cytokines suppress lipoteichoic acid induced matrix metalloproteinase expression and keratinocyte migration in response to wounding. J Invest Dermatol. 2015;135(10):2550-3. PMID: 25950824.
502. Harris JK, Fang R, Wagner BD, Choe HN, Kelly CJ, Schroeder S, Moore W, Stevens MJ, Yeckes A, Amsden K, Kagalwalla AF, Zalewski A, Hirano I, Gonsalves N, Henry LN, Masterson JC, Robertson CE, **Leung DY**, Pace, NR, Ackerman SJ, Furuta GT, Fillon SA. Esophageal microbiome in eosinophilic esophagitis. PLoS One. 2015;10(5):e0128346. PMID: PMC4447451.
503. Barron MA, **Leung DYM**. Lessons from Ebola and readiness for new emerging infectious threats. J Allergy Clin Immunol. 2015;135:872-4. PMID: 25843599.
504. **Leung DY**. Porphyllactic emollient use beginning at birth prevents atopic dermatitis. J Pediatr. 2015;166(3):777-8. PMID: 25722275.
505. **Leung DYM**, Szeffler SJ. The Editors' Choice: Baked milk and immunotherapy is not suitable for all patients with milk allergy. J Allergy Clin Immunol. 2015;136(6):1474-1475.
506. Gao L, Bin L, Rafaels NM, Huang L, Potee J, Ruczinski I, Beaty TH, Paller AS, Schneider LC, Gallo R, Hanifin JM, Beck LA, Geha RS, Mathian RA, Barnes KC, **Leung DYM**. Targeted deep sequencing identifies rare loss-of-function variants in *IFNGR1* for risk of atopic dermatitis complicated by eczema herpeticum. J Allergy Clin Immunol. 2015;136:1591-600. PMID: 26343451.
507. Merriman JA, Klingelhutz AJ, Diekema DJ, **Leung DYM**, Schlievert PM. Novel *Staphylococcus aureus* secreted protein alters keratinocyte proliferation and elicits a proinflammatory response *in vitro* and *in vivo*. Biochemistry. 2015;54:4855-62. PMID: 26177220.
508. **Leung DYM**. Atopic dermatitis: Age and race do matter! J Allergy Clin Immunol. 2015;136:1265-7. PMID: 26549637.
509. Li LB, **Leung DYM**, Goleva E. Activated p38 MAPK in peripheral blood monocytes of steroid resistant asthmatics. PLoS One. 2015 Oct 30;10(10):e014909. PMID: 26517722.
510. Goleva E, Covar R, Martin RJ, **Leung DY**. Corticosteroid pharmacokinetic abnormalities in overweight and obese corticosteroid resistant asthmatics. J Allergy Clin Immunol Pract. 2016;4(2):357-360. PMID: PMC4789098.
511. Kim J, Kim BE, Lee J, Han Y, Jun HY, Kim H, Choi J, **Leung DYM**, Ahn K. Epidermal thymic stromal lymphopoietin predicts the development of atopic dermatitis during infancy. J Allergy Clin Immunol. 2016;137(4):1282-1285. PMID: 26879860.
512. Jones AL, Curran-Everett D, **Leung DYM**. Food allergy is associated with *Staphylococcus aureus* colonization in children with atopic dermatitis. J Allergy Clin Immunol. 2016;137(4):1247-1248. PMID: 26960580.

513. Brar K, **Leung DY**. Recent considerations in the use of recombinant interferon gamma for biological therapy of atopic dermatitis. Expert Opin Biol Ther. 2016;16(4):507-514. PMID: PMC4985031.
514. Jones SM, Burks AW, Keet C, Vickery BP, Scurlock AM, Wood RA, Liu AH, Sicherer SH, Henning AK, Lindblad RW, Dawson P, Berin C, Fleischer DM, **Leung DYM**, Plaut M, Sampson HA, Consortium of Food Allergy Research (CoFAR). Long-term treatment with egg oral immunotherapy enhances sustained unresponsiveness that persists after cessation of therapy. J Allergy Clin Immunol. 2016;137(4):1117-1127. PMID: PMC4826859.
515. Bunyavanich S, Shen N, Grishin A, Wood R, Burks W, Dawson P, Jones SM, **Leung DYM**, Sampson H, Sicherer S, Clemente JC. Early-life gut microbiome composition is associated with milk allergy resolution. J Allergy Clin Immunol. 2016;138(4):1122-1130. PMID: PMC5056801.
516. Bin L, **Leung DY**. Genetic and epigenetic studies of atopic dermatitis. Allergy Asthma Clin Immunol 2016;12:52. PMID: PMC5069938.
517. Brauweiler AM, Goleva E, **Leung DY**. Interferon- protects from staphylococcal alpha toxin-induced keratinocyte death through apolipoprotein L1. J Invest Dermatol. 2016;136(3):658-64. PMID: PMC4808518.
518. Shi B, Bangayan NJ, Curd E, Taylor PA, Gallo RL, **Leung DYM**, Li H. The skin microbiome is different in pediatric versus adult atopic dermatitis. J Allergy Clin Immunol. 2016;138(4):1233-1236. PMID: PMC5235385.
519. Wright BL, Kulis M, Orgel KA, Burks AW, Dawson P, Henning AK, Jones SM, Wood RA, Sicherer SH, Lindblad RW, Stablein D, **Leung DY**, Vickery BP, Sampson HA, Consortium of Food Allergy Research. Component-resolved analysis of IgA, IgE, and IgG4 during egg OIT identifies markers associated with sustained unresponsiveness. Allergy. 2016;71(11):1552-1560. PMID: PMC5035709.
520. Sicherer SH, Wood RA, Vickery BP, Perry TT, Jones SM, **Leung DY**, Blackwell B, Dawson P, Burks AW, Lindblad R, Sampson HA. Impact of allergic reactions on food-specific IgE concentrations and skin test results. J Allergy Clin Immunol Pract. 2016;4(2):239-45.e4. PMID: PMC4789127.
521. **Leung DY**. Clinical implications of new mechanistic insights into atopic dermatitis. Curr Opin Pediatr. 2016;28(4):456-62. PMID: PMC4988808.
522. Ong PY, **Leung DY**. Bacterial and viral infections in atopic dermatitis: a comprehensive review. Clin Rev Allergy Immunol. 2016;51(3):329-337. PMID: 27377298.
523. Kosoy R, Agashe C, Grishin A, **Leung DY**, Wood RA, Sicherer SH, Jones SM, Burks W, Davidson WF, Lindblad RW, Dawson P, Merad M, Kidd BA, Dudley JT, Sampson HA, Berin MC. Transcriptional profiling of egg allergy and relationship to disease phenotype. PLoS One. 2016;11(10):e0163831. PMID: PMC5082817.
524. Pallin DJ, Bry L, Dwyer RC, Lipworth AD, **Leung DY**, Camargo CA Jr, Kupper TS, Filbin MR, Murphy GF. Toward an objective diagnostic test for bacterial cellulitis. PLoS One. 2016;11(9):e0162947. PMID: PMC5033594.
525. Merriman JA, Mueller EA, Cahill MP, Beck LA, Paller AS, Hanifin JM, Ong PY, Schneider L, Babineau DC, David G, Lockhart A, Artis K, **Leung DY**, Schlievert PM. Temporal and racial differences associated with atopic dermatitis *Staphylococcus aureus* and encoded virulence factors. mSphere. 2016;1(6):e00295-16. pii: e00295-16. PMID: PMC5143412.
526. Bin L, Deng L, Yang H, Zhu L, Wang X, Edwards MG, Richers B, **Leung DY**. Forkhead box C1 regulates human primary keratinocyte terminal differentiation. PLoS One. 2016 Dec 1;11(12):e0167392. PMID: PMC5132327.
527. Bin L, Li X, Feng J, Richers B, **Leung DYM**. Ankyrin repeat domain 22 mediates host defense against viral infection through STING signaling pathway. J Immunol. 2016;196(1 Supplement) 201.4.
528. Nakatsuji T, Chen TH, Narala S, Chun KA, Two AM, Yun T, Shafiq F, Kotol PF, Bouslimani A,

- Melnik AV, Latif H, Kim JN, Lockhart A, Artis K, David G, Taylor P, Streib J, Dorrestein PC, Grier A, Gill SR, Zengler K, Hata TR, **Leung DY**, Gallo RL. Antimicrobials from human skin commensal bacteria protect against *Staphylococcus aureus* and are deficient in atopic dermatitis. Sci Transl Med. 2017;9(378):eaah4680. PMID: PMC5600545.
529. Li J, Guo A, Chen W, Bin L, He Y, Zhu W, Peng C, Yan S, Chen M, Zhang J, Su J, Yi M, Liu Z, Zhang W, Zeng W, **Leung DY**, Chen X. Association of ORA1 gene polymorphisms with chronic spontaneous urticaria and the efficacy of nonsedating H1 antihistamines desloratadine. J Allergy Clin Immunol. 2017;139(4):1386-1388.e9. PMID: 27864023.
530. Jones SM, Sicherer SH, Burks AW, **Leung DY**, Lindblad RW, Dawson P, Henning AK, Berin MC, Chiang D, Vickery BP, Pesek RD, Cho CB, Davidson WF, Plaut M, Sampson HA, Wood RA, Consortium of Food Allergy Research. Epicutaneous immunotherapy for the treatment of peanut allergy in children and young adults. J Allergy Clin Immunol. 2017;139(4):1242-1252.e9. PMID: 28091362.
531. Huang YJ, Marsland BJ, Bunyavanich S, O'Mahony L, **Leung DY**, Muraro A, Fleisher TA. The microbiome in allergic disease: Current understanding and future opportunities – 2017 PRACTALL document of the American Academy of Allergy, Asthma & Immunology and the European Academy of Allergy and Clinical Immunology. J Allergy Clin Immunol. 2017;139(4):1099-1110. PMID: PMC5899886.
532. Lee UH, Kim BE, Kim DJ, Cho YG, Ye YM, **Leung DY**. Atopic dermatitis is associated with reduced corneodesmosin expression: role of cytokine modulation and effects on viral penetration. Br J Dermatol. 2017;176(2):537-540. PMID: 27572518.
533. Brunner PM, Guttman-Yassky E, **Leung DY**. The immunology of atopic dermatitis and its reversibility with broad-spectrum and targeted therapies. J Allergy Clin Immunol. 2017;139(4S):S65-S76. PMID: PMC5405702.
534. **Leung DY**, Guttman-Yassky E. Assessing the current treatment of atopic dermatitis: Unmet needs. J Allergy Clin Immunol. 2017;139(4S):S47-S48. PMID: 28390476.
535. **Leung DYM**, Jepson B, Beck LA, Hanifin JM, Schneider LC, Paller AS, Monti K, David G, Canniff J, Lorenzo MG, Weinberg A. A clinical trial of intradermal and intramuscular seasonal influenza vaccination in patients with atopic dermatitis. J Allergy Clin Immunol. 2017;139(5):1575-1582.e8. PMID: PMC5786280.
536. Li S, Villarreal M, Steward S, Choi J, Indra G, Babineau DC, Philpot C, David G, Yoshida T, Boguniewicz M, Hanifin J, Beck LA, **Leung DY**, Simpson E, Indra AK. Altered composition of epidermal lipids correlates with *Staphylococcus aureus* colonization status in atopic dermatitis. Br J Dermatol. 2017;177(4):e125-e127. PMID: PMC5573657
537. Uong P, Curran-Everett D, **Leung DYM**. *Staphylococcus aureus* colonization is associated with increased inhaled corticosteroid requirements in patients with atopic dermatitis and asthma. J Allergy Clin Immunol Pract. 2017;5(6):1782-1783. PMID: 28526276.
538. Goleva E, Harris JK, Robertson CE, Jackson LP, Martin RJ, **Leung DYM**. Airway microbiome and responses to corticosteroids in corticosteroid-resistant asthma patients treated with acid suppression medications. J Allergy Clin Immunol. 2017;140(3):860-862.e1. PMID: 28477847.
539. Brauweiler AM, Hall CF, Goleva E, **Leung DYM**. *Staphylococcus aureus* lipoteichoic acid inhibits keratinocyte differentiation through a p63-mediated pathway. J Invest Dermatol. 2017;137(9):2030-2033. PMID: PMC5593072.
540. Pham DL, Lim KM, Joo KM, Park HS, **Leung DYM**, Ye YM. Increased cis-to-trans urocanic acid ratio in the skin of chronic spontaneous urticaria patients. Sci Rep. 2017;7(1):1318. PMID: PMC5431012.
541. Watson CT, Cohain AT, Griffin RS, Chun Y, Grishin A, Hacyznska H, Hoffman GE, Beckmann ND, Shah H, Dawson P, Henning A, Wood R, Burks AW, Jones SM, **Leung DYM**, Sicherer S, Sampson HA, Sharp AJ, Schadt EE, Bunyavanich S. Integrative transcriptomic analysis reveals key drivers of

- acute peanut allergic reactions. Nat Commun. 2017;8(1):1943. PMID: PMC5715016.
542. Huang A, Cho C, **Leung DYM**, Brar K. Atopic dermatitis: early treatment in children. Curr Treat Options Allergy. 2017;4(3):355-369. PMID: PMC5983898.
543. Agashe C, Chiang D, Grishin A, Masilamani M, Jones SM, Wood RA, Sicherer SH, Burks AW, **Leung DYM**, Dawson P, Sampson HA, Berin MC. Impact of granulocyte contamination on PBMC integrity of shipped blood samples: Implications for multi-center studies monitoring regulatory T cells. J Immunol Methods. 2017;449:23-27. PMID: PMC5573627.
544. Kim BE, Goleva E, Hall CF, Park SH, Lee UH, Brauweiler AM, Streib J, Richers BN, Kim G, **Leung DYM**. Skin wound healing is accelerated by a lipid mixture representing major lipid components *Chamaecyparis obtusa* plant extract. J Invest Dermatol. 2018;138(5):1176-1186. PMID: 29277539.
545. Izadi N, **Leung DYM**. Clinical approach to the patient with refractory atopic dermatitis. Ann Allergy Asthma Immunol. 2018;120(1):23-33.e1. PMID: 29273125.
546. Lowe AJ, **Leung DYM**, Tang MLK, Su JC, Allen KJ. The skin as a target for prevention of the atopic march. Ann Allergy Asthma Immunol. 2018;120(2):145-151. PMID: 29413338.
547. Brunner PM, **Leung DYM**, Guttman-Yassky E. Immunologic, microbial, and epithelial interactions in atopic dermatitis. Ann Allergy Asthma Immunol. 2018;120(1):34-41. PMID: 29126710.
548. Phillips A, Hoyte FCL, **Leung DYM**. Dystonia as an unusual presentation of systemic mastocytosis: possible link between histamine release and movement disorders. J Allergy Clin Immunol Pract. 2018;6(1):269-271.e1. PMID: 28757371.
549. Dyjack N, Goleva E, Rios C, Kim BE, Bin L, Taylor P, Bronchick C, Hall CF, Richers BN, Seibold MA, **Leung DYM**. Minimally invasive skin tape strip RNA sequencing identifies novel characteristics of the type 2-high atopic dermatitis disease endotype. J Allergy Clin Immunol. 2018;141(4):1298-1309. PMID: PMC5892844.
550. Fazlollahi M, Chun Y, Grishin A, Wood RA, Burks AW, Dawson P, Jones SM, **Leung DYM**, Sampson HA, Sicherer SH, Bunyavanich S. Early-life gut microbiome and egg allergy. Allergy. 2018;73(7):1515-1524. PMID: 6436531.
551. Bin L, Li X, Richers B, Streib JE, Hu JW, Taylor P, **Leung DYM**. Ankyrin repeat domain 1 regulates innate immune responses against herpes simplex virus 1: A potential role in eczema herpeticum. J Allergy Clin Immunol. 2018;141(6):2085-2093.e1. PMID: PMC5994174.
552. Tham EH, **Leung DYM**. Global perspectives on food allergy: one size doesn't fit all. Ann Allergy Asthma Immunol. 2018;120(3):234-236. PMID: 29398243.
553. Shi B, **Leung DYM**, Taylor PA, Li H. Methicillin-resistant *Staphylococcus aureus* colonization is associated with decreased skin commensal bacteria in atopic dermatitis. J Inv Dermatol. 2018;138(7):1668-1671. PMID: PMC6019637.
554. Rabinovitch N, **Leung DYM**, Covar R. The highs and lows of marijuana use in allergy. Ann Allergy Asthma Immunol. 2018;121(1):14-17. PMID: 29452260.
555. Berin MC, Grishin A, Masilamani M, **Leung DYM**, Sicherer SH, Jones SM, Burks AW, Henning AK, Dawson P, Grabowska J, Agashe C, Davidson WF, Wood RA, Sampson HA. Egg-specific IgE and basophil activation but not egg-specific T-cell counts correlate with phenotypes of clinical egg allergy. J Allergy Clin Immunol. 2018;142(1):149-158.e8. PMID: PMC6282170.
556. Berdyshev E, Goleva E, Bronova I, Dyjack N, Rios C, Jung J, Taylor P, Jeong M, Hall CF, Richers BN, Norquest KA, Zheng T, Seibold M, **Leung DY**. Lipid abnormalities in atopic skin are driven by

- Type 2 cytokines. JCI Insight. 2018 Feb;3(4):e98006. PMID: PMC5916244.
- 557.Chan SK, **Leung DYM**. Dog and cat allergies: current state of diagnostic approaches and challenges. Allergy Asthma Immunol Res. 2018;10(2):97-105. PMID: PMC5809771.
- 558.Kim BE, **Leung DYM**. Significance of skin barrier dysfunction in atopic dermatitis. Allergy Asthma Immunol Res. 2018;10(3):207-215. PMID: PMC5911439.
- 559.Siegfried EC, Jaworski JC, Eichenfield LF, Paller A, Hebert AA, Simpson EL, Altman E, Arena C, Blauvelt A, Block J, Boguniewicz M, Chen S, Cordero K, Hanna D, Horii K, Hultsch T, Lee J, **Leung DY**, Lio P, Milner J, Omachi T, Schneider C, Schneider L, Sidbury R, Smith T, Sugarman J, Taha S, Tofte S, Toleffson M, Tom WL, West DP, Whitney L, Zane L. Developing drugs for treatment of atopic dermatitis in children (≥ 3 months to < 18 years of age): draft guidance for industry. Pediatr Dermatol. 2018;35(3):303-322. PMID: 29600515.
- 560.Reisdorph N, Armstrong M, Powell R, Quinn K, Legg K, **Leung D**, Reisdorph R. Quantitation of peptides from non-invasive skin tapings using isotope dilution and tandem mass spectrometry. J Chromatogr B Analyt Technol Biomed Life Sci. 2018;1084:132-140. PMID: PMC6093185.
- 561.Chiang D, Chen X, Jones SM, Wood RA, Sicherer SH, Burks AW, **Leung DYM**, Agashe C, Grishin A, Dawson P, Davidson WF, Newman L, Sebra R, Merad M, Sampson HA, Losic B, Berin MC. Single-cell profiling of peanut-responsive T cells in patients with peanut allergy reveals heterogeneous effector T_H2 subsets. J Allergy Clin Immunol. 2018;141(6):2107-2120. PMID: PMC5994177.
- 562.Brar KK, **Leung DYM**. Eczema complicated by allergic contact dermatitis to topical medications and excipients. Ann Allergy Asthma Immunol. 2018;120(6):599-602. PMID: 29702202.
- 563.Tham EH, **Leung DYM**. How different parts of the world provide new insights into food allergy. Allergy Asthma Immunol Res. 2018;10(4):290-299. PMID: PMC6021584.
- 564.Li J, Zheng L, Uchiyama A, Bin L, Mauro TM, Elias PM, Pawelczyk T, Sakowicz-Burkiewicz M, Trzeciak M, **Leung DYM**, Morasso MI, Yu P. A data mining paradigm for identifying key factors in biological processes using gene expression data. Sci Rep. 2018;8(1):9083. PMID: PMC5998123.
- 565.**Leung DYM**. Atopic dermatitis: more than a rash. Ann Allergy Asthma Immunol. 2018;120(6):555-556. PMID: 29891118.
- 566.Simpson EL, Villarreal M, Jepson B, Rafaels N, David G, Hanifin J, Taylor P, Boguniewicz M, Yoshida T, De Benedetto A, Barnes KC, **Leung DYM**, Beck LA. Patients with atopic dermatitis colonized with *Staphylococcus aureus* have a distinct phenotype and endotype. J Invest Dermatol. 2018;138(10):2224-2233. PMID: PMC6153055.
- 567.Chehade M, Jones SM, Pesek RD, Burks AW, Vickery BP, Wood RA, **Leung DYM**, Furutua GT, Fleischer DM, Henning AK, Dawson P, Lindblad RW, Sicherer SH, Abonia JP, Sherrill JD, Sampson HA, Rothenberg ME. Phenotypic characterization of eosinophilic esophagitis in a large multicenter patient population from the Consortium for Food Allergy Research. J Allergy Clin Immunol Pract. 2018;6(5):1534-1544.e5. PMID: PMC6132253.
- 568.**Leung DYM**. Can antibiotics be harmful in atopic dermatitis? Br J Dermatol. 2018;179(4):807-808. PMID: 30318811.
- 569.Lanser BJ, **Leung DYM**. The current state of epicutaneous immunotherapy for food allergy: a comprehensive review. Clin Rev Allergy Immunol. 2018;55(2):153-161. PMID: 29081025.
- 570.Tham EH, **Leung DY**. Mechanisms by which atopic dermatitis predisposes to food allergy and the

- atopic march. Allergy Asthma Immunol Res. 2019;11(1):4-15. PMID: PMC6267189.
571. Marshall GD Jr, **Leung DYM**, Ellis A, Nowak-Wegrzyn A, Castells M, Grayson M, Greenhawt M, Lieberman J, Oppenheimer J, Spergel J. The Best of 2018 in the Annals of Allergy, Asthma, and Immunology: The Editors' Choices. Ann Allergy Asthma Immunol. 2019;122(2):127-133. PMID: 30711033.
572. Tham EH, Dyjack N, Kim BE, Rios C, Seibold MA, **Leung DYM**, Goleva E. Expression and function of the ectopic olfactory receptor OR10G7 in patients with atopic dermatitis. J Allergy Clin Immunol. 2019;143(5):1838-1848.e4. PMID: PMC6504602.
573. Sampson HA, Berin MC, Plaut M, Sicherer SH, Jones S, Burks AW, **Leung DYM**, Wood RA. The Consortium for Food Allergy Research (CoFAR): the first generation. J Allergy Clin Immunol. 2019;143(2):486-493. PMID: PMC6368887.
574. **Leung DYM**. The effect of being African American on atopic dermatitis. Ann Allergy Asthma Immunol. 2019;122(1):1. PMID: 30579430.
575. Goleva E, Berdyshev E, **Leung DY**. Epithelial barrier repair and prevention of allergy. J Clin Invest. 2019;129(4):1463-1474. PMID: PMC6436854.
576. **Leung DYM**. The microbiome and allergic diseases: a struggle between good and bad microbes. Ann Allergy Asthma Immunol. 2019;122(3):231-232. PMID: 30639436.
577. **Leung DYM**, Calatroni A, Zaramela LS, LeBeau PK, Dyjack N, Brar K, David G, Johnson K, Leung S, Ramirez-Gama M, Liang B, Rios C, Montgomery MT, Richers BN, Hall CF, Norquest KA, Jung J, Bronova I, Kreimer S, Talbot CC Jr, Crumrine D, Cole RN, Elias P, Zengler K, Seibold MA, Berdyshev E, Goleva E. The nonlesional skin surface distinguishes atopic dermatitis with food allergy as a unique endotype. Sci Transl Med. 2019 Feb;11(480):eaav2685. PMID: 30787169.
578. Goleva E, Babineau DC, Gill MA, Jackson LP, Shao B, Hu Z, Liu AH, Visness CM, Sorkness CA, **Leung DYM**, Tofial A, Busse WW. Expression of corticosteroid-regulated genes by PBMCs in children with asthma. J Allergy Clin Immunol. 2019;143(3):940-947.e6. PMID: 30059697.
579. Davidson WF, **Leung DYM**, Beck LA, Berin CM, Boguniewicz M, Busse WW, Chatila TA, Geha RS, Gern JE, Guttman-Yassky E, Irvine AD, Kim BS, King HH, Lack G, Nadeau KC, Schwaninger J, Simpson A, Simpson EL, Spergel JM, Togias A, Wahn U, Wood RA, Woodfolk JA, Ziegler SF, Plaut M. Report from the National Institute of Allergy and Infectious Diseases workshop on "Atopic dermatitis and the atopic march: Mechanisms and interventions." J Allergy Clin Immunol. 2019;143(3):894-913. PMID: PMC6905466.
580. Kim J, Kim BE, **Leung DYM**. Pathophysiology of atopic dermatitis: clinical implications. Allergy Asthma Proc. 2019;40(2):84-92. PMID: PMC6399565.
581. Schlievert PM, Cahill MP, Hostager BS, Brosnahan AJ, Klingelutz AJ, Gourronc FA, Bishop GA, **Leung DYM**. Staphylococcal superantigens stimulate epithelial cells through CD40 to produce chemokines. mBio. 2019;10(2):e00214-19 PMID: PMC6426597.
582. Brauweiler A, Goleva E, **Leung DYM**. *Staphylococcus aureus* acid damages the skin barrier through an IL-1-Mediated pathway. J Invest Dermatol. 2019;139(8):1753-1761.e4. PMID: PMC6650368.
583. Boorgula MP, Taub MA, Rafaels N, Daya M, Campbell M, Chavan S, Shetty A, Cheadle C, Barkataki S, Fan J, David G, Beaty TH, Ruczinski I, Hanifin J, Schneider LC, Gallo RL, Paller AS, Beck LA, **Leung DY**, Mathias RA, Barnes KC. Replicated methylation changes associated with

- eczema herpeticum and allergic response. Clin Epigenetics. 2019;11(1):122. PMID: PMC6706929.
584. Kim J, Kim BE, Ahn K, **Leung DYM**. Interactions between atopic dermatitis and *Staphylococcus aureus* infection: clinical implications. Allergy Asthma Immunol Res. 2019;11(5):593-603. PMID: PMC6658404.
585. Schlievert PM, Kilgore SH, Seo KS, **Leung DYM**. Glycerol monolaurate contributes to the antimicrobial and anti-inflammatory activity of human milk. Sci Rep. 2019;9(1):14550. PMID: PMC6787265.
586. Sicherer SH, Wood RA, Perry TT, Jones SM, **Leung DYM**, Henning AK, Dawson P, Burks AW, Lindblad R, Sampson HA. Clinical factors associated with peanut allergy in a high-risk infant cohort. Allergy. 2019;74(11):2199-2211. PMID: PMC6817376.
587. Kim BE, Goleva E, Kim PS, Norquest K, Bronchick C, Taylor P, **Leung DYM**. Side-by-side comparison of skin biopsies and skin tape stripping highlights abnormal stratum corneum in atopic dermatitis. J Invest Dermatol. 2019;139(11):2387-2389.e1. PMID: PMC6814531.
588. Brauweiler AM, Goleva E, **Leung DYM**. *Staphylococcus aureus* lipoteichoic acid damages the skin barrier through an IL-1-mediated pathway. J Invest Dermatol. 2019;139(8):1753-1761.e4. PMID: PMC6650368.
589. Eiweffer T, Anagostou K, Arasi S, Bégin P, Ben-Shosin M, Beyer K, Blumchen K, Brough H, Caubet JC, Chan ES, Chinthrajah S, Davis CM, Roches AD, Du Toit G, Elizur A, Galli SJ, Håland G, Hoffmann-Sommergruber K, Kim H, **Leung DYM**, Muraro A, Nurmatov UB, Pajno GB, Sindher S, Szepfalusi Z, Torres MJ, Upton J, Worm M, Nadeau K. ICER report for peanut OIT comes up short. Ann Allergy Asthma Immunol. 2019;123(5):430-432. PMID: 31513908.
590. Hoffman BC, Garcia S, Everett DC, **Leung DYM**, Cho CB. Association of atopic dermatitis with increased risk of anaphylaxis to egg and milk. Ann Allergy Asthma Immunol. 2019;123(6):620-622. PMID: 31520770.
591. Kim EH, Jones SM, Burks AW, Wood RA, Sicherer SH, **Leung DY**, Henning AK, Lindblad RW, Dawson P, Keet C, Scurlock AM, Plaut M, Sampson HA. A 5-year summary of real-life dietary egg consumption after completion of a 4-year egg powder oral immunotherapy (eOIT) protocol. J Allergy Clin Immunol. 2019; 145(4):1292-1295.e1. PMID: PMC7150643.
592. Yuanyuan Li, Yueqi Song, Leqing Zhu, Xiao Wang, Brittany Richers, **Donald YM Leung**, and Lianghua Bin. Interferon Kappa is important for keratinocyte host defense against herpes simplex virus-1. J Immunol Res. Jan 2020;5084682. PMID: PMC7178474.
593. Marshall GD, Ellis A, Grayson M, **Leung DY**, Lieberman J, Nowak-Wegrzyn A, Oppenheimer J. Best of 2019. Ann Allergy Asthma Immunol. Feb 2020;124(2):111-115. PMID: 31790813.
594. Sindher S, Alkotob SS, Shojinaga MN, Brough HA, Bahnson HT, Chan S, Lack G, **Leung DYM**, Nadeau KC. Pilot study measuring transepidermal water loss (TEWL) in children suggests trilipid cream is more effective than a paraffin-based emollient. Allergy. 2020; 75:2662–2708. PMID: 32176320.
595. Jacob HS, Vercellotti GM, **Leung DYM**, Schlievert PM. Case report of an unusual presentation of *Staphylococcus aureus* induced Toxic Shock Syndrome/hyperimmunoglobulinemia E Syndrome. Medicine (Baltimore). 2020;99(15): e19746. PMID: PMC7220474.

596. DeKruyff RH, Zhang W, Nadeau KC, **Leung DYM**, Wills-Karp M. Summary of the keystone symposium "Origins of allergic disease: microbial, epithelial and immune interactions," March 24-27, Tahoe City, California. J Allergy Clin Immunol. April 2020;145(4): P1072-1081.e1. PMID: 31926182.
597. Brauweiler A, Goleva E, **Leung DYM**. *Staphylococcus aureus* lipoteichoic acid initiates a TSLP-Basophil-IL4 axis in the skin. J Invest Dermatol. Apr 2020;140(4):915-917.e2. PMCID: PMC7075722.
598. Do AN, Watson CT, Cohain AT, Griffin RS, Grishin A, Wood RA, Burks AW, Jones SM, Scurlock A, **Leung DYM**, Sampson HA, Sicherer SH, Sharp AJ, Schadt EE, Bunyavanich S. Dual transcriptomic and epigenomic study of reaction severity in peanut-allergic children. J Allergy Clin Immunol. Apr 2020;145(4):1219-1230. PMCID: PMC7192362.
599. Eiwegger T, Anagnostou K, Arasi S, Bégin P, Ben-Shoshan M, Beyer K, Blumchen K, Brough H, Caubet JC, Chan ES, Chen M, Chinthrajah S, Davis CM, Des Roches A, Du Toit G, Elizur A, Galli SJ, Håland G, Hoffmann-Sommergruber K, Kim H, **Leung DYM**, Long A, Muraro A, Nurmatov UB, Pajno GB, Sampath V, Saxena J, Sindher S, Upton J, Worm M, Nadeau KC. Conflicting verdicts on peanut oral immunotherapy from the Institute for Clinical and Economic Review and US Food and Drug Administration Advisory Committee: where do we go from here? J Allergy Clin Immunol. Apr 2020;145(4):1153-1156. PMID: 31678426.
600. Ahn K, Kim BE, Kim J, **Leung DYM**. Recent advances in atopic dermatitis. Curr Opin Immunol. Apr 2020; 66:14-21. PMCID: PMC7554175.
601. Jalbert E, Lussier S, Johnson MJ, Jepson B, Calatroni A, David G, **Leung DYM**, Weinberg A. Lower Influenza-Specific Cell-Mediated Immune Responses in Individuals with Atopic Dermatitis Compared with Healthy Controls. Hum Vaccin Immunother. 2020;16(11):2727-2735. PMCID: PMC7734037.
602. Goleva E, Calatroni A, LeBeau P, Berdyshev E, Taylor P, Kreimer S, Cole RN, **Leung DYM**. Skin tape proteomics identifies pathways associated with transepidermal water loss and allergen polysensitization in atopic dermatitis. J Allergy Clin Immunol. 2020;146(6):1367-1378. PMCID: PMC7606732.
603. Brough HA, Nadeau KC, Sindher SB, Alkotob SS, Chan S, Bahnson H, **Leung DYM**, Lack G. Epicutaneous sensitization in the development of food allergy: what is the evidence and how can this be prevented? Allergy. Apr 2020;75(9):2185–2205. PMCID: PMC7494573.
604. Geisler AN, Phillips GS, Barrios DM, Wu J, Naidoo J, **Leung DYM**, Lacouture ME. CME Part II: Immune checkpoint inhibitor-related dermatologic adverse events. J Am Acad Dermatol. 2020; 83(5):1255-1268. PMCID: PMC7572894.
605. Sindher T, Alkotob S, Shojinaga MN, Hamilton R, Chan S, Cao S, Bahnson T, Brough H, Lack G, **Leung DYM**, Nadeau K. Increases in plasma IgG4/IgE with trilipid versus paraffin/petrolatum-based emollients for dry skin/eczema. Pediatr Allergy Immunol. 2020;31(6):699-703. PMCID: PMC8078833.
606. Hui JW, **Leung DYM**. Origins of allergic disease: Maternal and early childhood factors. Ann Allergy Asthma Immunol. 2020;125(5):501-502. PMID: 32445669.
607. Hui JW, Goleva E, Curran-Everett E, **Leung DYM**. The atopic march and *Staphylococcus aureus* colonization are associated with fall birth. J Allergy Clin Immunol Pract. 2020; 8(9):3216-3218.e2. PMID: 32473420.
608. **Leung DYM**, Berdyshev E, Goleva E. Cutaneous Barrier Dysfunction in Allergic Diseases. J Allergy

Clin Immunol. 2020;145(6):1485-1497. PMID: PMC7291847.

609. Brar KK, Calatroni A, Berdyshev E, Palombi S, Goleva E, **Leung DYM**. Hyperlinear palms as a clinical finding in peanut allergy. J Allergy Clin Immunol Pract. 2020 Sept; 8(8):2823-2825. PMID: PMC7483281.
610. Kim EH, Perry TT, Wood RA, **Leung DYM**, Berin MC, Burks AW, Cho CB, Jones SM, Scurlock A, Sicherer S, Henning AK, Dawson P, Lindblad RW, Plaut M, Sampson HA, for the Consortium for Food Allergy Research (CoFAR). Induction of sustained unresponsiveness after egg oral immunotherapy compared to baked egg therapy in egg-allergic children. J Allergy Clin Immunol. 2020 Oct;146(4):851-862.e10. PMID: PMC7554054.
611. Berdyshev E, Goleva E, Bronova I, Bronoff AS, Hoffman BC, Ramirez-Gama MA, Garcia SL, Crumrine D, Elias PM, Cho CB, **Leung DYM**. Unique skin abnormality in patients with peanut allergy but no atopic dermatitis. J Allergy Clin Immunol. 2021 Jan;147(1):361-367.e1. PMID: PMC7772264.
612. **Leung DYM**, Schlievert PM. Kawasaki syndrome: role of superantigens revisited. FEBS J. 2021 Mar;288(6):1771-1777. PMID: PMC7436680.
613. Banzon T, **Leung DYM**, Schneider LC. Food allergy and atopic dermatitis. Journal of Food Allergy. Sept 2020;2(1):35-38.
614. Schlievert PM, Gourronc F, **Leung DYM**, Klingelhutz A. Human keratinocyte response to superantigens. mSphere. Oct 2020;5(5): e00803-20. PMID: PMC7568652.
615. Suprun M, Sicherer SH, Wood RA, Jones SM, **Leung DYM**, Henning AK, Dawson P, Burks AW, Lindblad R, Getts R, Suárez-Fariñas M, Sampson HA. Early epitope-specific IgE antibodies are predictive of childhood peanut allergy. J Allergy Clin Immunol. 2020 Nov;146(5):1080-1088. PMID: PMC8095129.
616. Lyubchenko T, Collins HK, Goleva E, **Leung DYM**. Skin tape sampling technique identifies proinflammatory cytokines in atopic dermatitis skin. Ann Allergy Asthma Immunol. 2020 Jan;126(1):46-53. e2. PMID: PMC8782053.
617. Brauweiler AM, **Leung DYM**, Goleva E. The transcription factor p63 is a direct effector of IL-4/IL-13 mediated repression of keratinocyte differentiation. J Invest Dermatol. 2021 Apr;141(4):770-778. PMID: 33038352.
618. Papp K, Szepietowski JC, Kircik L, Toth D, Eichenfield LF, **Leung DYM**, Forman SB, Venturana ME, Sun K, Kuligowski ME, Simpson EL. Efficacy and safety of Ruxolitinib cream for the treatment of atopic dermatitis: Results from two phase 3, randomized, double-blind studies. J Am Acad Dermatol. 2021 Oct;85(4):863-872. PMID: 33957195.
619. Scurlock AM, Burks AW, Sicherer SH, **Leung DYM**, Kim EH, Henning AK, Dawson P, Lindblad RW, Berin MC, Cho CB, Davidson WF, Plaut M, Sampson HA, Wood RA, Jones SM, for the Consortium for Food Allergy Research (CoFAR). Epicutaneous Immunotherapy for Treatment of Peanut Allergy: Follow-up from the Consortium for Food Allergy Research. J Allergy Clin Immunol. 2021 Mar;147(3):992-1003.e5. PMID: PMC8612061.
620. Lyubchenko T, Collins HK, Vang KA, **Leung DYM**, Goleva E. SMOC1 and IL-4 and IL-13 Cytokines Interfere with Ca²⁺ Mobilization in Primary Human Keratinocytes. J Invest Dermatol. 2021 Jul;141(7):1792-1801.e5. PMID: PMC9141376.
621. Nakatsuji T, Hata TR, Tong Y, Cheng JY, Shafiq F, Butcher AM, Salem SS, Brinton SL, Rudman

- Spergel AK, Johnson K, Jepson B, Calatroni A, David G, Ramirez-Gama M, Taylor P, **Leung DYM**, Gallo RL. Development of a human skin commensal microbe for bacteriotherapy of atopic dermatitis and use in a phase 1 randomized clinical trial. Nat Med. 2021 Apr;27(4):700-709. PMID: PMC8052297.
622. Bin L, Malley C, Taylor P, Boorgula MP, Chavan S, Daya M, Mathias M, Shankar G, Rafaels N, Vergara C, Potee J, Campbell M, Hanifin JM, Simpson E, Schneider LC, Gallo RL, Hata T, Paller AS, De Benedetto A, Beck LA, Ong PY, Guttman-Yassky E, Richers B, Baraghoshi D, Ruczinski I, Barnes K, **Leung DYM**, Mathias RA. Whole genome sequencing identifies novel genetic mutations in patients with eczema herpeticum. Allergy. 2021 Aug;76(8):2510-2523. PMID: PMC8978872.
623. Kim BE, Kim J, Goleva E, Berdyshev E, Lee J, Vang KA, Lee UH, Han S, Leung S, Hall CF, Kim NR, Bronova I, Lee EJ, Yang HR, **Leung DYM**, Ahn K. Particulate matter causes skin barrier dysfunction. JCI Insight. 2021 Mar;6(5):145185. PMID: PMC8021104.
624. Barrios DM, Phillips GS, Geisler AN, Trelles SR, Markova A, Noor SJ, Quigley EA, Haliasos HC, Moy AP, Schram AM, Bromberg J, Funt SA, Voss MH, Drilon A, Hellmann MD, Comen EA, Narala S, Patel AB, Wetzel M, Jung JY, **Leung DYM**, Lacouture ME. IgE blockade with omalizumab reduces pruritus related to immune checkpoint inhibitors and anti-HER2 therapies. Ann Oncol. 2021 Jun;32(6):736-745. PMID: PMC9282165.
625. Goleva E, Lyubchenko T, Kraehenbuehl L, LaCouture ME, **Leung DYM**, Kern JA. Our current understanding of checkpoint inhibitor therapy in cancer immunotherapy. Ann Allergy Asthma Immunol. 2021 Jun;126(6):630-638. PMID: PMC8713301.
626. Lyubchenko T, **Leung DYM**, Goleva E. Why are immune adverse events so common with Checkpoint Inhibitor Therapy? Ann Allergy Asthma Immunol. 2021 Jun;126(6):608-610. PMID: PMC8670739.
627. Wang E, Kraehenbuehl L, Ketosugbo K, Kern JA, Lacouture ME, **Leung DYM**. Immune-related cutaneous adverse events due to checkpoint inhibitors. Ann Allergy Asthma Immunol. 2021 Jun;126(6):613-622. PMID: PMC8165024.
628. Hui-Beckman J, Kim BE, **Leung DYM**. Origins of Allergy from *in utero* Exposures to the Postnatal Environment. Allergy Asthma Immunol Res. 2022 Jan;14(1):8-20. PMID: PMC8724834.
629. Arehart CH, Daya M, Campbell M, Boorgula MP, Rafaels N, Chavan S, David G, Hanifin J, Slifka MK, Gallo RL, Hata T, Schneider LC, Paller AS, Ong PY, Spergel JM, Guttman-Yassky E, **Leung DYM**, Beck LA, Gignoux CR, Mathias RA, Barnes KC. Polygenic prediction of atopic dermatitis improves with atopic training and filaggrin factors. J Allergy Clin Immunol. 2022 Jan;149(1):145-155. PMID: PMC8973457.
630. **Leung DYM**, Elias PM, Nadeau KC, Berdyshev E. Olive oil is for eating and not skin moisturization. J Allergy Clin Immunol. 2021 Aug;148(2):652. PMID: 34144820.
631. Schlievert PM, Roller RJ, Kilgore SH, Villareal M, Klingelhutz A, **Leung DYM**. Staphylococcal TSST-1 Association with Eczema Herpeticum in Humans. mSphere. 2021 Aug;6(4): e0060821. PMID: PMC8386428.
632. Berdyshev E, Bronova I, **Leung DYM**, Goleva E. Methodological considerations for lipid and polar component analyses in human skin stratum corneum. Cell Biochem Biophys. 2021 Sep;79(3):659-668. PMID: PMC8551066.
633. Brough HA, Lanser BJ, Sindher SB, Teng JMC, **Leung DYM**, Venter C, Chan SM, Santos AF, Bahnson H, Guttman-Yassky E, Gupta RS, Lack G, Ciaccio C, Sampath V, Nadeau KC, Nagler CR.

- Early intervention and prevention of allergic diseases. *Allergy*. 2022 Feb;77(2):416-441. PMID: 34255344.
634. Daya M, Cox C, Acevedo N, Boorgula MP, Campbell M, Chavan S, Cho MH, David GL, Kachroo P, Lasky-Su J, Li X, McHugh CP, Qiao D, Rafaels N, Beck LA, Bleeker ER, Caraballo L, Cupples AL, Figueiredo CA, Gallo RL, Hanifin J, Hansel NN, Hata TR, Hersh CP, Knight-Madden J, **Leung DYM**, Guttman-Yassky E, Meyers DA, O'Connor G, Ober C, Ong PY, Ortega VE, Paller AS, Putcha N, Reed RM, Schneider LC, Silverman EK, Slifka MK, Spergel JM, Vasani RS, Viaud-Martinez KA, Watson H, Weiss ST, Ruczinski I, Beaty TH, Mathias RA, Barnes KC. Multi-ethnic genome-wide and HLA association study of total serum IgE. *J Allergy Clin Immunol*. 2021 Dec;148(6):1589-1595. PMID: PMC8665111.
635. Hui-Beckman J, **Leung DYM**, Goleva E. Hand hygiene impact on the skin barrier in health care workers and individuals with atopic dermatitis. *Ann Allergy Asthma Immunol*. 2022 Jan;128(1):108-110. PMID: PMC8363178.
636. Luo J, Beattie JA, Fuentes P, Rizvi H, Egger JV, Kern JA, **Leung DYM**, Lacouture ME, Kris MG, Gambarin M, Santomasso BD, Faleck DM, Hellmann MD. Beyond Steroids: Immunosuppressants in Steroid-Refractory or Resistant Immune-Related Adverse Events. *J Thorac Oncol*. 2021 Oct;16(10):1759-1764. PMID: PMC8464489.
637. Berin MC, Agashe C, Burks AW, Chiang D, Davidson WF, Dawson P, Grishin A, Henning AK, Jones SM, Kim EH, **Leung DYM**, Masilamani M, Scurlock AM, Sicherer SH, Wood RA, Sampson HA. Allergen-specific T cells and clinical features of food allergy: lessons from CoFAR immunotherapy cohorts. *J Allergy Clin Immunol*. 2022;149(4):1373-1382.e12. PMID: PMC8995337.
638. Suprun M, Sicherer S, Wood R, Jones S, **Leung DYM**, Burks W, Dunkin D, Witmer M, Galina Grishina G, Getts R, Suárez-Fariñas M, Sampson HA. Mapping sequential IgE-binding epitopes on major and minor egg allergens. *Int Arch Allergy Immunol*. 2022;183(3):249-261. PMID: 34818647.
639. Wang E, **Leung DYM**. Allergens and atopic dermatitis. *Ann Allergy Asthma Immunol*. 2022;128(6):624-625. PMID: 35017082.
640. Kim BE, Hui-Beckman J, Lyubchenko T, Hall CF, Fallahi S, Brull A, Goleva E, **Leung DYM**. Transient receptor potential vanilloid 1 plays a major role in low temperature-mediated skin barrier dysfunction. *J Allergy Clin Immunol*. 2022 Aug;150(2):362-372.e7. PMID: 35189126.
641. Wang EA, Goleva E, Ketosugbo K, Kern JA, Kraehenbuehl L, Lacouture ME, **Leung DYM**. Effect of immune checkpoint inhibitors on asthma. *Ann Allergy Asthma Immunol*. 2022 Aug;129(2):257-258. PMID: 35623586.
642. Kuo AM, Kraehenbuehl L, King S, **Leung DYM**, Goleva E, Moy AP, Lacouture ME, Shah NJ, Faleck DM. Contribution of the skin-gut axis to immune-related adverse events with multi-system involvement. *Cancers (Basel)*. 2022;14(12):2995. PMID: PMC9221505.
643. Berdyshev E, Goleva E, Bronova I, Bronoff AS, Streib JE, Vang KA, Richers BN, Taylor P, Beck L, Villarreal M, Johnson Keli, David G, Slifka MK, Hanifin J, **Leung DYM**. Signaling sphingolipids are biomarkers for atopic dermatitis prone to disseminated viral infections. *J Allergy Clin Immunol*. 2022; 150(3):640-648. PMID: PMC9463085.
644. Berdyshev E, Goleva E, Bissonnette R, Bronova I, Bronoff AS, Richers BN, Garcia S, Ramirez-Gama M, Taylor P, Praestgaard A, Agueusop I, Jurvilliers P, Boguniewicz M, Levit NA, Rossi AB, Zhang A, **Leung DYM**. Dupilumab significantly improves skin barrier function in patients with moderate-to-severe atopic dermatitis. *Allergy*. 2022;77(11):3388-3397. PMID: 35815904.

645. Rabinovitch N, Nevid M, Lomas C, Covar R, Levy H, **Leung DYM**. Reversible peripheral airway obstruction and lung hyperinflation in children presenting with dyspnea and exercise intolerance after COVID-19 infection. J Allergy Clin Immunol Pract. 2022;10(10):2748-2749.e1. PMID: PMC9520121.
646. Liu EG, Zhang B, Martin V, Anthonypillai J, Kraft M, Grishin A, Grishina G, Catanzaro JR, Chinthrajah S, Sindher T, Manohar M, Quake AZ, Nadeau K, Burks AW, Kim EH, Kulis MD, Henning AK, Jones SM, **Leung DYM**, Sicherer SH, Wood RA, Yuan Q, Shreffler W, Sampson H, Shabanova V, Eisenbarth SC. Food-specific immunoglobulin A does not correlate with natural tolerance to peanut or egg allergens. Sci Transl Med. 2022;14(671): eabq0599. PMID: 36383680.
647. Hui-Beckman J, Goleva E, Berdyshev E, **Leung DYM**. Endotypes of atopic dermatitis and food allergy. J Allergy Clin Immunol. 2023 Jan;151(1):26-28. PMID: 36050129.
648. Nevid MZ, **Leung DYM**, Crooks JL, Lanser BJ. The diagnostic challenge of sesame allergy: a review of sesame oral food challenges in a pediatric clinic. Ann Allergy Asthma Immunol. 2023 Jan;130(1):118-119. PMID: 36596610.
649. Spergel JM, **Leung DYM**. Topical steroid withdrawal syndrome: Should we worry? Ann Allergy Asthma Immunol. 2023 Jan;130(1):8. PMID: 36596614.
650. Schlievert P, Kilgore S, Beck L, Yoshida T, Klingelutz A, **Leung DYM**. Host cationic antimicrobial molecules inhibit S. aureus exotoxin production" mSphere. 2023 Feb 21;8(1): e0057622. PMID: PMC9942567.
651. Lozano-Ojalvo D, Tyler SR, Aranda CJ, Wang J, Sicherer S, Sampson HA, Wood RA, Burks AW, Jones SM, **Leung DYM**, Curotto de Lafaille M, Berin MC. Allergen recognition by specific effector Th2 cells enables IL-2-dependent activation of regulatory T-cell responses in humans. Allergy. 2023 Mar;78(3):697-713. PMID: PMC10111618.
652. Kim J, Kim BE, Goleva E, Berdyshev E, Bae J, Kim S, Kim HY, Lee UH, Kim MS, Jung M, Kim H, Lee J, **Leung DYM**, Ahn K. Alterations of epidermal lipid profiles and skin microbiome in children with atopic dermatitis. Ann Allergy Asthma Immunol Res. 2023 Mar;15(2):186-200. PMID: 37021505. PMID: PMC10079518.
653. Huffaker MF, Kanchan K, Bahnson HT, Ruczinski I, Shankar G, **Leung DYM**, Baloh C, du Toit G, Lack G, Nepom GT, Mathias RA. Epidermal differentiation complex genetic variation in atopic dermatitis and peanut allergy. J Allergy Clin Immunol. 2023 Apr; 151(4):1137-1142. PMID: 36403663.
654. **Leung DYM**, Paller AS, Zaenglein AL, Tom WL, Ong PY, Venturanza ME, Kullgowski ME, Li Q, Gong X, Lee MS. Safety, pharmacokinetics, and efficacy of ruxolitinib cream in children and adolescents with atopic dermatitis. Ann Allergy Asthma Immunol. 2023 Apr;130(4):500-507.e3. PMID: 36586583.
655. Nevid Z, Rabinovitch M, Crooks N, Goleva E, **Leung DYM**, Hui J. The association of residential distance from highly trafficked roads with atopic dermatitis risk. J Allergy Clin Immunol; In Pract. 2023 May;11(5):1554-1555. PMID: 36948492.
656. Kim J, Kim BE, Berdyshev E, Bronova I, Bin L, Bae J, Kim SJ, Kim HY, Lee U, Kim MS, Kim H, Lee J, Hall CF, Hui-Beckman J, Chang Y, Bronoff AS, Hwang D, Lee HY, Goleva E, Ahn K, **Leung DYM**. Staphylococcus aureus causes aberrant epidermal lipid composition and skin barrier dysfunction. Allergy. 2023 May;78(5):1292-1306. PMID: 36609802.
657. Yang B, Wilie H, Timilshina M, Bainter W, Daya M, Boorgula MP, Mathias RA, Lai P, Petty CR,

- Weller E, Harb H, Chatila T, **Leung DYM**, Beck LA, Simpson E, Hata T, Barnes KC, Phipatanakul W, Leyva-Castillo JM, Geha RS. The IL-4R α Q576R polymorphism is associated with increased severity of atopic dermatitis and exaggerates allergic skin inflammation in mice. J Allergy Clin Immunol. 2023 May;151(5):1296-1306.e7. PMID: 36690254.
658. Van den Bogaard EH, Elias PM, Goleva E, Berdyshev E, Smits JPH, Danby SG, Cork M, **Leung DYM**. Targeting skin barrier function in atopic dermatitis. J Allergy Clin Immunol; In Pract. 2023 May;11(5):1335-1346. PMID: 36805053.
659. Berdyshev E, Kim J, Kim BE, Goleva E, Lyubchecko T, Bronova I, Bronoff AS, Xiao O, Kim J, Kim S, Kwon M, Lee S, Seo YJ, Kim K, Choi SJ, Oh SY, Kim SH, Yu SY, Hwan SY, Ahh K, **Leung DYM**. Stratum corneum lipid and cytokine biomarkers at two months of age predicts the future onset of atopic dermatitis. J Allergy Clin Immunol. 2023 May;151(5):1307-1316. PMID: 36828081.
660. **Leung DYM**, Bissonnette R, Kreimer S, Berdyshev E, Bafna S, Lyubchenko T, Richers BN, Garcia S, Hall C, Xiao O, Taylor P, Boguniewicz M, Levit NA, Agueusop I, Zhang A, Goleva E. Dupilumab inhibits vascular leakage of blood proteins into atopic dermatitis skin. J Allergy Clin Immunol; In Pract. 2023 May;11(5):1421-1428. PMID: 36958520.
661. Simpson EL, De Benedetto A, Boguniewicz M, Ong PY, Lussier S, Villarreal M, Schneider LC, Paller AS, Guttman-Yassky E, Hanifin JM, Spergel JM, Barnes KC, David G, Austin B, **Leung DYM**, Beck LA. Phenotypic and Endotypic Determinants of Atopic Dermatitis Severity from the Atopic Dermatitis Research Network (ADRN) Registry. J Allergy Clin Immunol Pract. 2023 Aug;11(8):2504-2515. PMCID: PMC10524351.
662. Keet C, Sicherer SH, Bunyavanich S, Visness C, Fulkerson PC, Togias A, Davidson W, Perry S, Hamrah S, Calatroni A, Robinson K, Dunaway L, Davis CM, Anvari S, Leong-Kee SM, Hershey GK, DeFranco E, Devonshire A, Kim H, Joseph C, Davidson B, Strong NK, Tsuang AJ, Groetch M, Wang J, Dantzer J, Mudd K, Aina A, Shreffler W, Yuan Q, Simmons V, **Leung DYM**, Hui-Beckman J, Ramos JA, Chinthrajah S, Winn V, Sindher T, Jones SM, Manning NA, Scurlock AM, Kim E, Stuebe A, Gern JE, Singh AM, Krupp J, Wood RA. The SunBEAm birth cohort: Protocol design. J Allergy Clin Immunol Glob. 2023 Aug;2(3):100124. PMCID: PMC10509956.
663. Schlievert PM, Gaitán AV, Kilgore SH, Roe AL, Maukonen J, Lehtoranta L, **Leung DYM**, Marsman DS. Inhibition of Toxic Shock Syndrome-Associated *Staphylococcus aureus* by Probiotic Lactobacilli. Microbiol Spectr. 2023 Aug 17;11(4): e0173523. PMCID: PMC10434015.
664. Moran MC, Klose A, Yoshida T, De Benedetto A, Schneider LC, Ong PY, Simpson EL, **Leung DYM**, Miller BL, Seplaki CL, Beck LA. History of *S. aureus* skin infection significantly associates with history of eczema herpeticum in patients with atopic dermatitis. Dermatol Ther (Heidelb). 2023 Oct;13(10):2417-2429. PMCID: PMC10539263.
665. Simpson EL, Schlievert PM, Yoshida T, Lussier S, Boguniewicz M, Hata T, Fuxench Z, De Benedetto A, Ong PY, Ko J, Calatroni A, Rudman Spergel AK, Plaut M, Quataert SA, Kilgore SH, Peterson L, Gill AL, David G, Mosmann T, Gill SR, **Leung DYM**, Beck LA. Rapid reduction in *Staphylococcus aureus* in atopic dermatitis subjects following dupilumab treatment. J Allergy Clin Immunol. 2023 Nov;152(5):1179-1195. PMCID: PMC10716365.
666. Hui-Beckman JW, Goleva E, **Leung DYM**, Kim BE. The impact of temperature on the skin barrier and atopic dermatitis. Ann Allergy Asthma Immunol. 2023 Dec;131(6):713-719. PMID: 37595740.
667. Chun Y, Grishin A, Rose R, Zhao W, Arditi Z, Zhang L, Wood R, Burks A, Jones S, **Leung DYM**, Jones D, Sampson H, Sicherer S, Bunyavanich S. Longitudinal dynamics of the gut microbiome and metabolome in peanut allergy development. J Allergy Clin Immunol. 2023 Dec;152(6):1569-1580.

668. Hui-Beckman JW, **Leung DYM**. Physical influences on the skin barrier and pathogenesis of allergy. Curr Opin Pediatr. 2023 Dec 1;35(6):656-662. PMID: 37650580.
669. Schlievert PM, Nelson JD, Kilgore SH, Radoshevich L, Klingelutz AJ, **Leung DYM**. Purification, characterization, and cloning of a novel pro-inflammatory secreted protein from *Staphylococcus aureus*. Microbiol Spectr. 2023 Dec 12;11(6): e0289823. PMCID: PMC10715055.
670. Nicolàs LSS, Czarnowicki T, Akdis M, Pujol RM, Lozano-Ojalvo D, **Leung DYM**, Guttman-Yassky E, Santamaria-Babí LF. CLA+ memory T cells in atopic dermatitis: CLA+ T cells and atopic dermatitis. Allergy. 2024 Jan;79(1):15-25. PMID: 37439317.
671. Marques-Mejias A, Bartha I, Ciaccio CE, Chinthrajah RS, Chan S, Hershey GKK, Hui-Beckman JW, Kost L, Lack G, Layhadi JA, **Leung DYM**, Marshall HF, Nadeau KC, Radulovic S, Rajcoomar R, Shamji MH, Sindher S, Brough HA. Skin as the target for allergy prevention and treatment. Ann Allergy Asthma Immunol. 2024 Jan 20; S1081-1206(24)00001-2. PMID: 38253125.
672. **Leung DYM**, Facheris P, Veverka KA, Cevikbas F, Guttman-Yassky E. Targeting type 2 immune activation beyond atopic dermatitis. Ann Allergy Asthma Immunol. 2024 Feb;132(2):121-123. PMID:37442541.
673. Spergel J, Borish L, Grayson MH, Greenhawt MJ, **Leung DYM**, Levi-Schaffer F, Lieberman JA, Moore-Clingenpeel M, Nowak-Wegrzyn A, Oppenheimer J, Shaker MS, Shulenberger K, Stukus DR. For allergists, the solution is never violence! Ann Allergy Asthma Immunol. 2024 Feb;132(2):117-118. PMID: 37863191.
674. **Leung DYM**. Evolving atopic dermatitis toward precision medicine. Ann Allergy Asthma Immunol. 2024 Feb;132(2):107-108. PMID: 38309944.
675. Wood RA, Togias A, Sicherer SH, Shreffler WG, Kim EH, Jones SM, **Leung DYM**, Vickery BP, Bird JA, Spergel JM, Iqbal A, Olsson J, Ligueros-Saylan M, Uddin A, Calatroni A, Huckabee CM, Rogers NH, Yovetich N, Dantzer J, Mudd K, Wang J, Groetch M, Pyle D, Keet CA, Kulis M, Sindher SB, Long A, Scurlock AM, Lanser BJ, Lee T, Parrish C, Brown-Whitehorn T, Spergel AKR, Veri M, Hamrah SD, Brittain E, Poyser J, Wheatley LM, Chinthrajah RS. Omalizumab for the treatment of multiple food allergies. N Engl J Med. 2024 Mar 7;390(10):889-899. PMID: 38407394.
676. Kim BE, Hui-Beckman JW, Nevid MZ, Goleva E, **Leung DYM**. Air pollutants contribute to epithelial barrier dysfunction and allergic diseases. Ann Allergy Asthma Immunol. 2024 Apr;132(4):433-439. PMID: 38006973.
677. Marshall HF, **Leung DYM**, Lack G, Sindher S, Ciaccio CE, Chan S, Nadeau KC, Brough HA. Topical steroid withdrawal and atopic dermatitis. Ann Allergy Asthma Immunol. 2024 Apr;132(4):423-425. PMID: 38142858.
678. Myongsoon S, **Leung DYM**, Kim BE. How does pollution worsen allergies? Ann Allergy Asthma Immunol. 2024 Apr;132(4):407-408. PMID: 38569749.
679. Jackson ND, Dyjack N, Goleva E, Bin L, Montgomery MT, Rios C, Everman JL, Taylor P, Bronchick C, Richers BN, **Leung DYM**, Seibold MA. Atopic dermatitis complicated by recurrent eczema herpeticum is characterized by multiple, concurrent epidermal inflammatory endotypes. JID Innov. 2024 Apr 2;4(4):100279. 2024.100279. PMCID: PMC11239700.
680. Jackson ND, Dyjack N, Goleva E, Bin L, Montgomery MT, Rios C, Everman JL, Taylor P, Bronchick C, Richers BN, **Leung DYM**, Seibold MA. Atopic dermatitis complicated by recurrent eczema herpeticum is characterized by multiple, concurrent epidermal inflammatory endotypes. JID Innov. 2024 Apr 2;4(4): 100279. PMCID: PMC11239700

681. Berdyshev E, Kim J, Kim BE, Goleva E, Lyubchenko T, Bronova I, Bronoff AS, Xiao O, Jang S, Shin S, Song J, Kim J, Kim S, Park B, Kim K, Choi SJ, Oh SY, Ahn K, **Leung DYM**. Skin biomarkers predict the development of food allergy in early life. *J Allergy Clin Immunol*. 2024 May;153(5):1456-1463.e4. PMID: PMC11070305.
682. Lacouture ME, Goleva E, Shah N, Rotemberg V, Kraehenbuehl L, Ketosugbo KF, Merghoub T, Maier T, Bang A, Gu S, Salvador T, Moy AP, Lyubchenko T, Xiao O, Hall CF, Berdyshev E, Crooks J, Weight R, Kern JA, **Leung DYM**. Immunologic profiling of immune-related cutaneous adverse events with checkpoint inhibitors reveals polarized actionable pathways. *Clin Cancer Res*. 2024 Jul 1;30(13):2822-2834. PMID: 38652814.
683. Shaker M, **Leung DYM**. Correlated, Conflated, and Confounded: The Complex Relationship Between Atopic Dermatitis and Food Allergy. *Ann Allergy Asthma Immunol*. 2024 Jun;132(6):665-666. PMID: 38839138.
684. Kim J, Kim BE, Ahn K, **Leung DYM**. Skin Predictive Biomarkers for the Development of Atopic Dermatitis and Food Allergy in Infants. *Allergy Asthma Immunol Res*. 2024 Jul;16(4):323-337. PMID: PMC11331187.
685. Vickery BP, Bird JA, Chinthrajah RS, Jones SM, Keet CA, Kim EH, **Leung DYM**, Shreffler WG, Sicherer SH, Sinder S, Spergel J, Wood RA. Omalizumab Implementation in Practice: Lessons Learned from the OUtMATCH Study. *J Allergy Clin Immunol Pract*. 2024 Nov;12(11):2947-2954. PMID: 39293782.
686. Boguniewicz M, Levy ML, Eichenfield LF, Lauren CT, **Leung DYM**, Schneider LC, Siegfried EC, Tom WL, Paller AS. Managing Childhood and Adolescent Atopic Dermatitis in Primary Care: A US Expert Group Consensus. *J Peds Clinical Practice*. 2024 Jul 10; 14:200121. PMID: PMC11824657
687. Schlievert PM, **Leung DYM**. Staphylococcus aureus as a possible cause of diabetes mellitus type 2. *Curr Trend Immunol*. 2024 (In Press).
688. Yannone SM, Tuteja V, Goleva O, **Leung DYM**, Stotland A, Keoseyan AJ, Hendricks NG, Van Eyk JE, Kreimer S. Blood to Biomarker Quantitation in Under One Hour with Rapid Proteomics using a Hyperthermoacidic Protease. *bioRxiv*. 2024 (Preprint). PMID: PMC11160709.
689. Venter C, Pickett-Nairne K, **Leung DYM**, Fleischer D, o'Mahony L, Glueck DH, Dabelea D. Diagnostic accuracy of maternal diet measures for offspring allergy. *J Allergy Clin Immunol Pract*. 2024 Aug 14: S2213-2198(24)00835-3. PMID: 39151689.
690. Kenney HM, Yoshida T, Berdyshev E, Calatroni A, Gill SR, Simpson EL, Lussier S, Boguniewicz M, Hata T, Chiesa Fuxench ZC, De Benedetto A, Ong PY, Ko J, Davidson W, David G, Schlievert PM, **Leung DYM**, Beck LA. CERS1 is a biomarker of Staphylococcus aureus abundance and atopic dermatitis severity. *J Allergy Clin Immunol*. 2024 Sep 27: S0091-6749(24)00991-6. PMID: 39343173.
691. Eichenfield LF, Boguniewicz M, Lauren CT, **Leung DYM**, Levy ML, Schneider LC, Siegfried EC, Tom WL, Paller AS. Systemic Therapy for Atopic Dermatitis in Children and Adolescents: A United States Expert Consensus. *Dermatology*. 2024 Oct;240(5-6):897-909. PMID: 39406204.
692. Goleva E, Braskett M, Bronova S, Bronoff AS, Lyubchenko K, Nagendra G, Warren M, Cynamon H, Alam L, Bhardwaj V, Hall CF, Durazo-Arvizu R, Ong P, **Leung DYM**, Berdyshev E, Shillingford N. Lipidomic analysis of esophageal epithelia reveals a unique sphingolipid profile in eosinophilic esophagitis. *J Allergy Clin Immunol*. 2024 (submitted).

693. Venter C, Pickett-Nairne K, **Leung D**, Fleischer D, O'Mahony L, Glueck DH, Dabelea D. Maternal allergy-preventive diet index, offspring infant diet diversity, and childhood allergic diseases. Allergy. 2024 Dec;79(12):3475-3488. PMID: 39192779.
694. Kankam A, Vazquez JMC, **Leung DYM**, Spergel JM, Nowak-Wegrzyn A. "Nothing good ever comes of violence": The impact of violence on allergic diseases. Ann Allergy Asthma Immunol. 2024 Dec;133(6):619-620. PMID: 39626983.
695. Goleva E, Lacouture ME, Moy AP, Kern JA, **Leung DYM**. Phenotype/Immunologic Profiling in ircAEs-Response. Clin Cancer Res. 2024 Dec 16;30(24):5694. PMID: 39676538.
696. Bissonnette R, Goleva E, Berdyshev E, Garcia S, Ramirez-Gama M, Taylor PA, Bologna G, Praestgaard AH, Chen L, Levit NA, Zahn J, Rossi AB, Zhang A, **Leung DYM**. Dupilumab treatment restores lesional and non-lesional skin barrier function in adults and adolescents with atopic dermatitis irrespective of the filaggrin genotype: Results from an open-label, healthy-control-matched, phase 4 clinical study (BALISTAD). J Am Acad Dermatol. 2025 Jan 22: S0190-9622(25)00113-6. PMID: 39855345.
697. Goleva E, Berdyshev E, Kreimer S, Haines JA, D'Allesandro A, Bronova I, Lyubchenko T, Richers BN, Hall CF, Xiao O, Bronoff AS, Bafna S, Ageusop I, Gloaguen E, Zahn J, R B, Zhang A, **Leung DYM**. Longitudinal integrated proteomic and metabolomic skin changes in atopic dermatitis patients treated with dupilumab. J Allergy Clin Immunol. 2025 Jan 23: S0091-6749(25)00071-5. PMID: 39863059.
698. Schlievert P, Kilgore SH, Ford B, **Leung DYM**, Sekar P. Pro-Inflammatory Secreted Virulence Factors of Staphylococcus capitis Causing a Rare Occurrence of Severe Native Hip Joint Infection. Clin. Microbiol. Case Rep. 2025 (submitted).
699. Goleva E, **Leung DYM**, Chaiboonma K, Tom W, Dohil R, Lyubchenko T, Bronova I, Bronoff AS, Berdyshev E, Aceves SS. Cutaneous ceramide synthesis is dysregulated in pediatric eosinophilic esophagitis. J Allergy Clin Immunol. 2025 Feb: S0091-6749(25)00220-00229. PMID:40020933.
700. Chang CL, Berdyshev E, Milanzi E, Lodge CJ, Lopez CJ, Lopez DJ, Bronova I, Koplin JJ, Peters RL, Tang MLK, Dharmage SC, Abramson MJ, Hui J, Varigos G, Perrett K, Sasi A, Perret JL, Su J, Robinson PD, **Leung DYM**, Lowe AJ. Early Life Protein-Bound Skin Ceramides Help Predict the Development of Atopic Dermatitis. J Allergy Clin Immunol. 2025 Mar;155(3):856-864. PMID: 39945702.
701. Hui J, Kim BE, Lyubchenko T, Hall C, Ziao O, Gallik K, Baraghoshi D, Strand M, Paik S, Goleva E, **Leung D**. Repeated temperature fluctuation exposure causes prolonged skin barrier dysfunction. JID. 2025 (Accepted).
702. Sung M, Kim BE, **Leung DYM**. Skin Infections in Atopic Dermatitis: Treatment Challenges. Curr. Treat. Options Allergy. 2025 March (Accepted).

Chapters

1. **Leung DYM**, Clark J, Glagov S, Mathews S. Mechanical influences on the biosynthesis of extracellular macromolecules by aortic cells. In: Slavkin HC, Gruelich RC, editors. Extracellular Matrix Influences on Gene Expression. New York: Academic Press; 1975. p. 285-92.
2. Glagov S, Clark J, **Leung DYM**, Mathews M. Organization and adaptive modeling of aortic connective tissue. In: Schettler, Goto, Hata, Klose, editors. Proc 4th Intern Symp Atherosclerosis. Tokyo: Springer-Verlag; 1977. p. 362-5.
3. **Leung DYM**, Rosen FS, Geha RS. Disorders of immunoglobulin antibody system. In: Chandra RK,

- editor. Primary and secondary immunodeficiency disorders. Edinburgh: Churchill, Livingstone; 1981. p. 44-64.
4. **Leung DYM**, Geha RS. Immune mechanisms in atopic dermatitis. In: Eberhard HM, Miescher P, editors. *Semin Immunopathol*; 1981. p. 275-91.
 5. Parkman R, Geha RS, **Leung DYM**, et al. Immunoregulatory abnormalities following bone marrow transplantation. In: Mohr JF, editor. *Regulation of the Immune response*. Karger: Basel; 1982.
 6. **Leung DYM**, Geha RS. The role of T cells and their soluble products in the regulation of human IgE synthesis. In: Pick E, editor. *Lymphokines*. New York: Academic Press; 1985. p. 161-78.
 7. **Leung DYM**, Geha RS. Immunoregulatory abnormalities in atopic dermatitis. In: Gershwin ME, editor. *Clinical Reviews in Allergy*; 1986. p. 67-86.
 8. **Leung DYM**, Rhodes AR, Geha RS. Atopic dermatitis. In: Fitzpatrick TB, Eisen AZ, Wolff K, Freeberg IM, Austen KF, editors. *Dermatology in General Medicine*. 3rd ed. New York: McGraw-Hill; 1986. p. 1385-408.
 9. **Leung DYM**. Requirements for the activation of IgE synthesis by human B cells. In: Pepys J, editor. *Proc. XII Intern. Congress of Allergology and Clin Immunology*, Washington, DC. St Louis: C.V. Mosby Co; 1986. p. 22-26.
 10. **Leung DYM**. Eczema. In: Lovejoy FH, Estridge D, editors. *Child Health Encyclopedia*. New York: Delacorte Press; 1987. p. 332-34.
 11. **Leung DYM**. Immunologic abnormalities in Kawasaki syndrome. In: Res Schulman ST, editor, *Prog Clin Biol*. New York: Alan R. Liss, Inc; 1987. p. 159-66.
 12. Burns JC, Geha RS, Newburger JW, Huang AS, **Leung DYM**. Polymerase activity in lymphocyte culture supernatants from patients with Kawasaki disease. In: Schulman ST, editor. *Prog Clin Biol Res*. New York: Alan R. Liss, Inc; 1987. p. 135-40.
 13. Shen G, Heavey A, **Leung DYM**, Geha R. Fecal alpha-1 anti-trypsin as a marker to identify reaginic and non-reaginic reaction to food. In: Chandra RD, editor. *Food Allergy*. St. John's Newfoundland: Nutrition Research Education Foundation; 1987. p. 167-72.
 14. **Leung DYM**. Immunomodulation by IVIG in Kawasaki Disease. In: **Leung DYM**, editor. *New Directions in the Clinical Use of Intravenous Immunoglobulin*. Health Dimensions; 1989. p. 25-33.
 15. **Leung DYM**, Schneider LS. Immunology of the allergic response. In: Sparrow D, Weiss ST, editors. *Airway Responsiveness and Allergy in the Development of Chronic Lung Disease*. Raven Press; 1989. p. 73-102.
 16. **Leung DYM**. Cytokine production and vascular endothelial cell activation in Kawasaki disease. In: Kawasaki T, editor. *Third Int Kawasaki Disease Symposium*; 1989. p. 113-19.
 17. **Leung DYM**. Immune reaction on the vascular wall. In: Kawasaki T, editor. *Third Int Kawasaki Disease Symposium*; 1989. p. 147-48.
 18. **Leung DYM**, Kamada M. Recent developments in allergy. In: Nathan DG, editor. *Current Opinion in Pediatrics*; 1989. p. 27-34.
 19. **Leung DYM** and Hanifin JM. Atopic dermatitis. In: Fauci AS, editor. *Report of the NIAID Task Force on Immunology and Allergy*, US Dept. of Health and Human Services (NIH Publication No. 90-2414). 1990. p. 19-22.
 20. Sundel R, **Leung DYM**. Kawasaki disease. In: Hunder G, editor. *Curr Opin Rheumatology*; 1990. p. 81-87.
 21. **Leung DYM**. The use of intravenous immunoglobulin in Kawasaki disease. In: Lahita RG, editor. *Immunol Update*; 1990. p. -5.
 22. **Leung DYM**. Diagnosis and treatment of atopic dermatitis. In: Boggs PB, Ellis EF, editors. *Clinical Advances in the Treatment of Allergies*; 1990. p. 6-8.

23. **Leung DYM**. Recognition and treatment of Kawasaki disease. In: Peterson D, editor. Family Practice. Greenwich: MRA Publications; 1991. p. 30-50.
24. Liu A, **Leung DYM**. Recent advances in allergy. In: Nathan DG, editor. Curr Opin Pediatrics; 1991. p. 880-88.
25. **Leung DYM**. Atopic dermatitis. In: Rakel RE, editor. Conn's Current Therapy. New York: WB Saunders Co; 1992. p. 778-81.
26. **Leung DYM**, Boguniewicz M. Atopic dermatitis. In: Jaffe H, Sherwin S, editors. The Anti-Infective Applications of Interferon-Gamma. Marcel Dekker, Inc; 1992. p. 67-86.
27. Abe J, Forrester J, Nakahara T, Kotzin BL, **Leung DYM**. Potential role of superantigens in the pathogenesis of Kawasaki syndrome. In: Takahashi M. editor. Fourth Int Kawasaki. Disease Symposium. Futura Publications; 1993. p.108-13.
28. **Leung DYM**, Lucky AW. Kawasaki disease. In: Fitzpatrick TB, Eisen AZ, Wolff K, Freeberg IM, Austen KF, editors. Dermatology in General Medicine, Fourth Edition. McGraw-Hill, New York; 1993. p. 2689-99.
29. **Leung DYM**. Mechanisms of vascular injury. In: Holliday, Barratt, Avner, editors. Pediatric Nephrology, 3rd Edition. Williams and Wilkins Publication; 1993. p. 804-22.
30. **Leung DYM**, Moqbel R, Polla BS, Stadler B, Vercelli D, Zubler. IgE, atopy and parasites. In: Polla BS, Dusser D, editors. Asthme et Allergie. Les Editions Médecine et Hygiene, Geneva; 1993. p. 17-33.
31. **Leung DYM**. Overview of disease mechanisms. In: Takahashi M, Taubert K, editors. Fourth Int Kawasaki Disease Symposium. Futura Publications; 1993. p. 155-59.
32. **Leung DYM**, Rhodes AR, Geha RS, Schneider L, Ring J. Atopic dermatitis. Fitzpatrick TB, Eisen AZ, Wolff K, Freeberg IM, Austen KF, editors. In: Dermatology in General Medicine, Fourth Edition. McGraw-Hill, New York; 1993. p. 1543-564.
33. **Leung DYM**. Atopic dermatitis. In: Samter's Immunological Diseases, Fifth Edition. Frank MM, Austen KF, Claman HN, Unanue ER (eds). Little, Brown and Company; Boston. 1994; pp. 1345-56.
34. **Leung DYM** (editor). Atopic Dermatitis. Clin Rev Allergy 1994;11:427-566, Humana Press.
35. **Leung DYM**. Immunopathogenesis of atopic dermatitis. In: Update on Allergy: Principles and Practice. Middleton E, Reed CE, Ellis EF, Adkinson NF, Yunginger JW, Busse WW (eds). 1994; pp 1-12
36. Boguniewicz M, Kelly CS, Ballow M, **Leung DYM**. Intravenous immune globulin in autoimmune and inflammatory diseases. In: Clinical Immunology. Rich RR, Fleisher TA, Schwartz BD, Shearer WT, Strober W (eds). Mosby Year Book Co. (St. Louis). 1995; p. 891-903.
37. **Leung DYM**, Meissner HC, Fulton D, Abe J, Quimby F, Schlievert PM. The superantigen hypothesis of Kawasaki syndrome. In: Fifth Int Kawasaki Disease Symposium. Elsevier Science Publications, Amsterdam. Kato H (ed). 1995; p.120-6.
38. **Leung DYM**. The allergic immune response. In: Allergic Diseases from Infancy to Adulthood. Bierman CW, Pearlman DS (eds). WB Saunders Co (Philadelphia).1995; p. 68-78.
39. Szeffler SJ, **Leung DYM**. Management of asthma: Past, present and the future. In: Severe Asthma: Pathogenesis and Management. Szeffler SJ, **Leung DYM** (eds). Marcel Dekker, Inc., New York. 1996; p. 537-58.
40. Spahn JD, **Leung DYM**, Szeffler SJ. Difficult to control asthma: new insights and implications for management. In: Severe Asthma: Pathogenesis and Management. Szeffler SJ, **Leung DYM** (eds). Marcel Dekker, inc., New York. 1996; p. 497-536.
41. Boguniewicz M, Nicol N, **Leung DYM**. Atopic disease and the skin. In: Cutaneous Allergy for the Clinician. Charlesworth, EN (ed). Blackwell Scientific Publications, Oxford. 1996; p. 209-32.

42. **Leung DYM**. Steroid resistant asthma. In: Topical Glucocorticoids in Asthma- Mechanisms and Clinical Action. Schleimer RP, Busse WW, O'Byrne PM (eds). Marcel Dekker, inc., New York. 1996; p. 627-50.
43. **Leung DYM**, Hamid Q. Immunology of atopic dermatitis. In: Atopic Dermatitis: From Pathogenesis to Treatment. **Leung DYM** (ed), RG Landes Co, Austin. 1996; p. 113-44.
44. **Leung DYM**. The glucocorticoid receptor as a target in the pathogenesis of steroid resistant asthma. In: Severe Asthma: Pathogenesis and Management. Szeffler SJ, **Leung DYM** (eds). Marcel Dekker, Inc, New York, 1996; p. 285-312.
45. Boguniewicz M, **Leung DYM**. Management of atopic dermatitis. In: Atopic Dermatitis: From Pathogenesis to Treatment. **Leung DYM** (ed), R.G. Landes Co:Austin TX. 1996; p. 185-220.
46. **Leung DYM**. Interactions of IVIG with superantigens and superantigen-induced lymphocyte activation. In: Fourth International Symposium on IVIG. Morell A, Kazatchkine M (eds). Parthenon Publishing Co:Carnforth, UK 1996; p. 43-8.
47. **Leung DYM**. Clinical relevance of superantigens and their response to IVIG therapy. In: Fourth International Symposium on IVIG. Morell A, Kazatchkine M (eds). Parthenon Publishing Co:Carnforth, UK 1996; p. 49-60.
48. **Leung DYM**, Huber BT, Schlievert PM. Historical perspective on superantigens and their biologic activities. In: Superantigens: Molecular Biology, Immunology and Relevance to Human Disease.
49. Norris DA, **Leung DYM**. Superantigens in Inflammatory Skin Diseases: A role in disease maintenance and induction. In: Superantigens: Molecular Biology, Immunology and Relevance to Human Disease. **Leung DYM**, Huber BT, Schlievert PM (eds). Marcel Dekker, Inc., New York. 1997; p. 551-80.
50. **Leung DYM**, Schlievert PM. Superantigens in human disease: Future directions in therapy and elucidation of disease pathogenesis. In: Superantigens: Molecular Biology, Immunology and Relevance to Human Disease. **Leung DYM**, Huber BT, Schlievert PM (eds). Marcel Dekker, Inc., New York. 1997; p. 581-602.
51. **Leung DYM**, Picker LJ. Adhesion pathways controlling recruitment responses of lymphocytes during allergic inflammatory reactions *in vivo*. In: Adhesion Molecules in Allergic Disease. Bochner BS (ed). Marcel Dekker, Inc., New York. 1997; p. 297-314.
52. Schwartz LB, **Leung DYM**. Basic immunology. In: Allergy & Immunology MKSAP, Second edition. Condemni JJ, Dykewicz MS (eds). American College of Physicians, Philadelphia. 1997; p. 3-36.
53. **Leung DYM**, Szeffler SJ. Steroid resistant asthma. In: Asthma. Barnes PJ, Grunstein MM, Leff A, Woolcock AJ (eds). Raven Press, New York. 1997; p. 2041-57.
54. **Leung DYM**. Immune-mediated dermatologic disorders. In: Allergy & Immunology MKSAP, Second edition. Condemni JJ, Dykewicz MS (eds). American College of Physicians, Philadelphia. 1997; p. 94-105.
55. Gelfand EW, **Leung DYM**. Regulation of IgE synthesis and its function in allergic disease. In: Genetics of Asthma and Allergy. Blumenthal MN, Bjorkstein B (eds). Marcel Dekker, Inc., New York. 1997; p. 63-89.
56. Meissner HC, **Leung DYM**. Kawasaki syndrome. In: Infectious Diseases. Gorbach SL, Bartlett JG, Black NR (eds). W. B. Saunders Co., New York. 1997; p. 1662-6.7
57. **Leung DYM**, Szeffler SJ. Steroid resistant asthma. In: Advanced Lung Disease, Kotloff RM, Hansen-Flaschen, JH (eds). Clin Chest Med 1997;18:611-626.
58. **Leung DYM**, Lucky AW. Kawasaki disease. In: *Dermatology in General Medicine*, Fifth Edition, Freeberg IM, Eisen AZ, Wolff K, Austen KF, Goldsmith LA, Katz SI, Fitzpatrick TB, eds. McGraw-Hill, New York. 1998; p. 2329-36.
59. **Leung DYM**, Tharp M, Boguniewicz M. Atopic dermatitis. In: *Dermatology in General Medicine*,

- Fifth Edition, Freeberg IM, Eisen AZ, Wolff K, Austen KF, Goldsmith LA, Katz SI, Fitzpatrick TB, eds. McGraw-Hill, New York. 1998; p.1464-1480.
60. Szefer SJ, Spahn JD, Wenzel SE, **Leung DYM**. Glucocorticoid insensitive asthma: Lessons for future asthma management. In, *Fatal Asthma*. Sheffer AL (ed). *Lung Biology in Health and Diseases Series*, Lenfant C (ed), Vol 115, Marcel Dekker, Inc., New York, 1998, p. 307-33.
 61. Boguniewicz M, **Leung DYM**. Atopic dermatitis. In: ALLERGY: Principles and Practice, 5th edition. Adkinson NF, Busse WW, Ellis EF, Middleton E, Reed CE, Yunginger JW (eds). Mosby, St. Louis. 1998; p. 1123-34.
 62. **Leung DYM**, Borish L. Atopic dermatitis and atopy. In: *Textbook of Molecular Medicine*. Jameson L (ed). Humana Press, Inc., Totowa, New Jersey. 1998; p. 801-10.
 63. **Leung DYM**. Superantigens in staphylococcal diseases. In: Effects of Microbes on the Immune System, Cunningham MW, Fujinami RS (ed). Lippincott-Williams & Wilkins Publishers, Philadelphia. 1999, p. 9-23.
 64. Szefer SJ, Spahn JD, Kamada AK, **Leung DYM**. Glucocorticosteroids in severe asthma: mechanisms of action and route of administration. In: *Difficult Asthma*, Holgate ST, Pauwels R, Boushey H (eds). Martin Dunitz Limited, The Livery House, London, 1999; p. 371-387.
 65. Boguniewicz M, **Leung DYM**. Allergic disorders. In: 14th Edition of Current Pediatric Diagnosis and Treatment, Hay W, Hayward A, Levin M, Sondheimer J (eds). Appleton & Lange, Stamford. 1999; p. 917-42.
 66. Lack G, Gelfand EW, **Leung DYM**. Non-Immunoglobulin E-dependent immunotherapy: treatment of asthma with inhaled interferon-gamma. In: *Immunotherapy in Asthma*. Bousquet J, Yssel H (eds). Marcel Dekker, Inc., New York. 1999, p. 439-56.
 67. Szefer SJ, **Leung DYM**. Severe persistent and corticosteroid insensitive asthma. In Neffen H, Baebna-Cagnani C, Fabbri L, Holgate S, O'Byrne P (eds). *Asthma, a Link Between Environment, Immunology and the Airways*. Buenos Aires, Argentina, October 17-20, 1999. Hogrefe & Huber Publishers, Göttingen, Germany, 1999, 177-185.
 68. **Leung DYM**. Difficult-to-control asthma due to corticosteroid resistance. In: *An Atlas of Asthma*. Djukanovic R, Holgate ST (eds), The Parthenon Publishing Group, London 1999; p. 82-87.
 69. Boguniewicz M, **Leung DYM**. Atopic Dermatitis. In: *Allergic Skin Disease: a multidisciplinary approach*, Leung DYM, Greaves MW (eds). Marcel Dekker, New York. 2000; p. 125-70.
 70. Lee TK, **Leung DYM**. Glucocorticoid insensitive bronchial asthma. In: *Asthma and Rhinitis*, Vol. 2. Busse WW, Holgate ST (eds). Blackwell Science:Oxford, 2000, pp. 1582-90.
 71. Boguniewicz M, **Leung DYM**. Allergic disorders. In: *Current Pediatric Diagnosis and Treatment*. Hay Jr WW, Hayward AR, Levin MJ, Sondheimer JM (eds). 15th edition, McGraw Hill:New York, 2000, p. 939-64.
 72. **Leung, DYM** (ed). SDZ ASM 981: A promising new approach for the management of atopic dermatitis. In: *Advances in Therapeutic Approaches for the Management of Atopic Dermatitis*. From the 8th EADV Congress: Amsterdam, September 1999. Advanced Health Media: NJ. 2000;1(1): p. 11-12.
 73. Spahn JD, **Leung DYM**, Szefer SJ. Glucocorticoids. In: *Clinical Immunology*, 2nd Edition. Rich RR, Fleisher TA, Shearer WT, Schroeder HW, Kotzin B (eds). Mosby Year Book Co:St. Louis. 2001, p. 106.1-106.13
 74. **Leung DYM**, Cruz P, Kaplan AP. Allergic skin diseases and contact dermatitis. In: *Clinical Immunology*, 2nd Edition. Rich RR, Fleisher TA, Shearer WT, Schroeder HW, Kotzin B (eds). Mosby Year Book Co: St. Louis. 2001; p. 51.1-51.19

75. **Leung DYM**, Spahn JD, Szeffler SJ. Steroid-resistant asthma: new insights and implications for management. In: *Severe Asthma: A multidisciplinary approach*. Szeffler SJ, **Leung DYM** (eds), 2nd edition, Marcel Dekker, Inc., New York. 2001; p. 597-619.
76. Szeffler SJ, **Leung DYM**. Prevention of severe asthma: promising opportunities. In: *Severe Asthma: A multidisciplinary approach*. Szeffler SJ, **Leung DYM** (eds), 2nd edition, Marcel Dekker, Inc., New York. 2001; p. 621-35.
77. **Leung DYM**. Immunopathogenesis of Atopic Dermatitis In: Boguniewicz M (ed) *Immunology and Allergy Clinics of North America*. W.B. Saunders Co: Philadelphia, 2002; 22:73-90.
78. Ong PY, **Leung DYM**. Atopic dermatitis. In: *Patterson's Allergic Diseases* (Grammer LC and Greenberger PA, editors), 6th edition, Lippincott, Williams&Wilkins: Philadelphia, 2002, p. 279-88.
79. Ong PY, **Leung DYM**. Atopic dermatitis. In *Inflammatory Mechanisms in Allergy Diseases*, Zweiman B, Schwartz LB (eds). *Clinical Allergy and Immunology Series*, Kaliner MA, Lockey RF (series eds). Marcel Dekker, Inc., New York, 2002, p. 355-79.
80. **Leung DYM**, Szeffler SJ. Mechanisms of corticosteroid action and insensitivity. In: *Textbook of Respiratory Cell and Molecular Biology*, Hamid QA, Wardlaw AJ (eds). Martin Dunitz Publishers: London. 2002, p. 437-456.
81. **Leung DYM**. Role of *Staphylococcus aureus* in atopic dermatitis. In *Atopic Dermatitis*. Bieber T, **Leung DYM** (eds). Marcel Dekker, Inc., New York, 2002, p. 401-18.
82. Bieber T, **Leung DYM**. Future perspectives in atopic dermatitis. In *Atopic Dermatitis*. (eds), Marcel Dekker, Inc., New York, 2002, p. 609-15.
83. Hofer M, **Leung DYM**. Anti-IgE and allergic skin diseases. In *IgE and Anti-IgE Therapy in Asthma and Allergic Diseases*. Fick RB Jr, Jardieu PM (eds), The Lung Biology in Health and Disease Series Lefant C (Executive editor), vol. 164. Marcel Dekker, Inc., New York, 2002, p. 327-49.
84. Boguniewicz M and **Leung DYM**. Allergic disorders. In *Current Pediatric Diagnosis and Treatment*. Hay WW Jr, Hayward AR, Levin MJ, Sondheimer JM, eds, 16th edition. McGraw-Hill: New York, 2002, p.1051-76.
85. Meissner HC, **Leung DYM**. Kawasaki syndrome. In Baddour L, Gorbach SL (eds) *Therapy of Infectious Diseases*. WB Saunders: Philadelphia (Elsevier Science). 2003, p. 369-74.
86. **Leung DYM**, Eichenfield LF, Boguniewicz M. Atopic Dermatitis (Atopic Eczema). In: Freeberg IM, Eisen AZ, Wolff K, Austen KF, Goldsmith LA, Katz SI, Fitzpatrick TB (eds) *Dermatology in General Medicine*, 6th edition, vol. I. McGraw-Hill: New York, 2003, p. 1180-94.
87. **Leung DYM**, Lucky AW. Kawasaki Syndrome. In: Freeberg IM, Eisen AZ, Wolff K, Austen KF, Goldsmith LA, Katz SI, Fitzpatrick TB, (eds) *Dermatology in General Medicine*, 6th edition, vol. II. McGraw-Hill: New York, 2003, 1981-7.
88. **Leung DYM**. Atopic dermatitis. In: *Pediatric Allergy: Principles and Practice*. **Leung DYM**, Sampson HA, Geha RS, Szeffler SJ (eds), 6th edition. Mosby/Harcourt:St. Louis. 2003, p. 561-73.
89. Boguniewicz M and **Leung DYM**. Atopic dermatitis. In: *Middleton's Allergy: Principles and Practice*. Adkinson NF Jr, Yuninger JW, Busse WW, Bochner BS, Holgate ST, Simons FER. (eds), 6th edition, Vol II. Mosby/Harcourt: St. Louis. 2003, p. 1559-80.
90. **Leung DYM**, Boguniewicz M Triggers of atopic dermatitis. In **Leung DYM**, Eichenfield LF (eds) *Pediatric Eczemas*. Summit Communications, LLC, New York, 2004; p. 55-68.
91. Boguniewicz M, **Leung DYM**. Basic skin care. In **Leung DYM**, Eichenfield LF (eds) *Pediatric Eczemas*. Summit Communications, LLC, New York, 2004; p. 69-92.
92. Kisich KO, **Leung DYM**. Defensins and cathelicidins. In Bos JD (ed) *Skin Immune System: Cutaneous Immunology and Clinical Immunodermatology*. 3rd Edition. CRC Press: New York, 2005, p. 315-26.

93. Cardona ID, Boguniewicz M, **Leung DYM**. In: Burg FD, Ingelfinger JR, Polin RA, Gershon AA (eds), *Current Pediatric Therapy*, 18th Ed, 2006, Section 17, p. 1043-1047.
94. Salt BH, **Leung DYM**. *Staphylococcus aureus* in Atopic Dermatitis. Steinhoff M, Luger TA (eds). In *Atopic Dermatitis*. 2007.
95. Cho S-H, **Leung DYM**. Role of superantigens in skin disease. In: Kotb M, Fraser JD (eds) *Superantigens: Molecular Basis for Their Role in Human Diseases*. ASM Press: Washington DC, 2007, p.139-56.
96. **Leung, DYM**. Ch. 139. Allergy and the immunologic basis of atopic disease. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, Part XIV Allergic Disorders, 2007, p. 935-8.
97. Atkins FM, **Leung, DYM**. Ch.140. Diagnosis of allergic disease. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, *Part XIV Allergic Disorders*, 2007, p. 938-42.
98. Atkins FM, **Leung, DYM**. Ch.141. Principles of treatment of allergic disease. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, *Part XIV Allergic Disorders*, 2007, p. 942-49.
99. Milgrom H, **Leung, DYM**. Ch.142. Allergic rhinitis. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, *Part XIV Allergic Disorders*, 2007, p. 949-52.
100. Liu AH, Covar RA, Spahn JD, **Leung, DYM**. Ch.143. Childhood asthma. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, *Part XIV Allergic Disorders*, 2007, p. 953-70.
101. **Leung, DYM**. Ch. 144. Atopic dermatitis (atopic eczema). In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, *Part XIV Allergic Disorders*, 2007, pp. 970-75.
102. Sicherer SH, **Leung, DYM**. Ch. 145. Insect allergy. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, *Part XIV Allergic Disorders*, 2007, p. 975-77.
103. Boguniewicz M, **Leung, DYM**. Ch. 146. Ocular allergies. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, *Part XIV Allergic Disorders*, 2007, p. 978-79.
104. **Leung, DYM**, Dreskin SC. Ch. 147. Urticaria (hives) and angioedema. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, *Part XIV Allergic Disorders*, 2007, p. 979-82.
105. Sampson HA, **Leung, DYM**. Ch. 148. Anaphylaxis. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, *Part XIV Allergic Disorders*, 2007, p. 983-85.
106. Sicherer SH, **Leung, DYM**. Ch. 149. Serum sickness. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, *Part XIV Allergic Disorders*, 2007, p. 985-86.
107. Sampson HA, **Leung, DYM**. Ch. 150. Adverse reactions to foods. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, *Part XIV Allergic Disorders*, 2007, pp. 986-990.
108. Boguniewicz M, **Leung, DYM**. Ch. 151. Adverse reactions to drugs. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), *Nelson Textbook of Pediatrics*, 18th Edition, *Part XIV Allergic Disorders*, 2007, p. 990-3.
109. **Leung DYM**, Eichenfield LF, Boguniewicz M. Atopic Dermatitis (Atopic Eczema). In: Wolff K,

- Goldsmith LA, Katz SI, Gilchrest BA, Paller AS, Leffell DJ (eds), Fitzpatrick's Dermatology in General Medicine, 7th edition, vol. 1. McGraw-Hill:New York, 2008, p. 146-58.
110. **Leung DYM**, Meissner HC, Lucky AW. Kawasaki Syndrome. In: Wolff K, Goldsmith LA, Katz SI, Gilchrest BA, Paller AS, Leffell DJ (eds), Fitzpatrick's Dermatology in General Medicine, 7th edition, vol. 2. McGraw-Hill: New York, 2008, 1626-33.
 111. Boguniewicz M and **Leung DYM**. Atopic dermatitis. In: Adkinson NF Jr, Bochner BS, Busse WW, Holgate ST, Lemanske RF Jr, Simons FER (eds), Middleton's Allergy: Principles and Practice. 7th edition, Vol 2. Mosby/Elsevier:Philadelphia. 2009, p. 1083-1103.
 112. **Leung, DYM**. Atopic dermatitis (atopic eczema). In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), Nelson Textbook of Pediatrics, 19th & 20th Edition, *Part XIV Allergic Disorders*, Elsevier Limited:Oxford UK, 2010.
 113. Boguniewicz M, **Leung DYM**. Adverse reactions to drugs In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), Nelson Textbook of Pediatrics, 19th Edition, *Part XIV Allergic Disorders*, Elsevier Limited:Oxford UK, 2010.
 114. Akdis CA, **Leung DYM**. Allergy and the immunologic basis of atopic disease. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), Nelson Textbook of Pediatrics, 19th Edition, *Part XIV Allergic Disorders*, Elsevier Limited:Oxford UK, 2010.
 115. Milgrom H, **Leung DYM**. Allergic rhinitis. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), Nelson Textbook of Pediatrics, 19th Edition, *Part XIV Allergic Disorders*, Elsevier Limited:Oxford UK, 2010.
 116. Atkins FM, **Leung DYM**. Diagnosis of allergic disease. In: Kleigman RM, Behrman RE, Jenson HB, Stanton BE (eds), Nelson Textbook of Pediatrics, 19th Edition, *Part XIV Allergic Disorders*, Elsevier Limited:Oxford UK, 2010.
 117. Byrne AM, **Leung DYM**. Immunology of atopic dermatitis. In: Irvine A, Höger P, Ya A. Textbook of Pediatric Dermatology 3rd edition, 2010.
 118. Ong PY, **Leung DYM**. Role of *Staphylococcus aureus* in atopic dermatitis. In: Grammer LC, Greenberger PA (eds). Patterson's Allergic Diseases, 7th Edition, Lippincott Williams & Wilkins: Philadelphia, 2010.
 119. Novak N, **Leung DYM**. Role of barrier dysfunction and immune response in atopic dermatitis. In Leung, Sampson, Geha and Szefer. Pediatric Allergy: Principles and Practice, 2nd Edition, 2010:552-563.
 120. Boguniewicz M, **Leung DYM**. Management of atopic dermatitis. In Leung, Sampson, Geha and Szefer. Pediatric Allergy: Principles and Practice, 2nd Edition, 2010:564-574.
 121. Bieber T, **Leung DYM**, Ivancevich J-C, Gamal Y. Atopic eczema and contact dermatitis. Chapter 2.3, pp 39-42. In: Pawankar R, Canonica GW, Holgate ST, Lockey RF (eds). WAO White Book on Allergy. World Allergy Organization: London, 2011.
 122. **Leung DYM**, Sicherer S. Atopic dermatitis (atopic eczema). Chapter 145, pp 1116-1121. In: Kleigman RM, Stanton BE, St Geme JW, Schor NF (eds). Nelson Textbook of Pediatrics, 20th Edition, Part XV Allergic Disorders. Elsevier Limited: Oxford UK, 2016.
 123. **Leung DYM**. Role of barrier dysfunction and immune response in atopic dermatitis. Chapter 50, pp 438-447. In: Leung DYM, Szefer SJ, Bonilla FA, Akdis CA, Sampson HA (eds). Textbook of Pediatric Allergy: Principles and Practice, 3rd Edition. Elsevier: 2016.
 124. **Leung DYM**. Management of atopic dermatitis. Chapter 51, pp 448-457. In: Leung DYM, Szefer SJ, Bonilla FA, Akdis CA, Sampson HA (eds). Textbook of Pediatric Allergy: Principles and Practice, 3rd Edition. Elsevier: 2016.
 125. **Leung DYM**, Sicherer S. Atopic dermatitis (atopic eczema). Chapter 145, pp 1116-1121. In: Kleigman RM, Stanton BE, St Geme JW, Schor NF (eds). Nelson Textbook of Pediatrics, 20th

Edition, Part XV Allergic Disorders, Elsevier Limited:Oxford UK, 2016.

126. Boguniewicz M, **Leung DYM**. Atopic Dermatitis. Chapter 86, pp 1559-1580. In: Adkinson NF Jr, Yunginger JW, Busse WW, Bochner BS, Holgate ST, Simons FER (eds). Middleton's Allergy Principles and Practice, Volume 2, Sixth Edition, Section E Clinical Science, Mosby An Affiliate of Elsevier:Philadelphia PA:2016.
127. **Leung DYM**, Boguniewicz M. Atopic Dermatitis and Allergic Contact Dermatitis. Chapter 11, pp 265-300. In: O'Hehir RE, Holgate ST, Sheikh A (eds). Middleton's Allergy Essentials, First Edition, Elsevier: 2017.
128. Boguniewicz M, **Leung DYM**. Evaluation and management of atopic dermatitis. Chapter 38, Section G, pp 318-328. In: Leung DYM, Akdis CA, Bacharier LB, Cunningham-Rundles C, Sicherer SH, Sampson HA. Pediatric Allergy: Principles and Practice, 4th Edition. Elsevier: 2021.
129. Boguniewicz M, Fonacier L, **Leung DYM**. Atopic and contact dermatitis. Chapter 48, pp 609-622. In: Fleisher TA, Schroeder HW, Weyand Jr CM, Corry DB, Puck JM. Clinical Immunology: Principles and Practice, 6th edition. Elsevier: 2021v1.0.

Books and Monographs

1. **Leung DYM**. New Directions in the Clinical Use of Intravenous Immunoglobulin. Health Dimensions; 1989.
2. Rosenwasser LJ, Borish L, Gelfand EW, **Leung DYM**, Nelson HS, Szefer SJ. 1994 Yearbook of Allergy and Clinical Immunology. Chicago: Mosby Inc; 1994.
3. Szefer SJ, **Leung DYM**. Severe Asthma: Pathogenesis and Clinical Management. New York: Marcel Dekker, Inc; 1995.
4. Rosenwasser LJ, Borish L, Gelfand EW, **Leung DYM**, Nelson HS, Szefer SJ. 1995 Yearbook of Allergy and Clinical Immunology. Chicago: Mosby, Inc; 1995.
5. **Leung DYM**. Atopic Dermatitis: From Pathogenesis to Treatment. Austin: RG Landes Co; 1996.
6. Lee TH, Brattsand R, **Leung DYM**. Corticosteroid action and resistance in asthma. Am J Respir Cell Mol Biol 1996;154 (No. 2):S1-S79.
7. Rosenwasser LJ, Borish L, Gelfand EW, **Leung DYM**, Nelson HS, Szefer SJ. 1996 Yearbook of Allergy and Clinical Immunology. Chicago: Mosby, Inc; 1996.
8. **Leung DYM**, Huber B, Schlievert P. Superantigens: Structure, Biology and Relevance to Human Disease. New York: Marcel Dekker, Inc; 1997.
9. Rosenwasser LJ, Borish L, Gelfand EW, **Leung DYM**, Nelson HS, Szefer SJ. 1997 Yearbook of Allergy and Clinical Immunology. Chicago: Mosby, Inc; 1997.
10. **Leung DYM**. Allergy, Immunology and Related Disorders. Curr Opin Pediatr 1997;9(6):565-69.
11. Szefer SJ, **Leung DYM**. Corticosteroids in Respiratory Allergy: Immunology and Allergy Clinics of North America. Philadelphia: W. B. Saunders Co; 1999;19(4):837-53.
12. **Leung, DYM**. Advances in Therapeutic Approaches for the Management of Atopic Dermatitis. From the 8th EADV Congress: Amsterdam, September 1999. New Jersey: Advanced Health Media; 2002;1:1.
13. **Leung DYM**, Greaves M. Allergic Skin Diseases: Causes and Treatment. New York: Marcel Dekker, Inc; 2000; 532 pages.
14. Szefer SJ, **Leung DYM**. Severe Asthma: A Multidisciplinary Approach. New York: Marcel Dekker, 2nd Edition, Lung Biology in Health and Disease Series; 2001; 614 pages.
15. Chu T, McFadden J, Leung **DYM**, Munn S. Skin barrier dysfunction in atopic eczema. Prescriber: Current Thinking (supplement). A&M Publishing Ltd: Guilford, Bieber T, **Leung DYM**, editors.

Atopic Dermatitis. New York: Marcel Dekker, Inc; 2002; 633 pages.

16. **Leung DYM**, Sampson HA, Geha RS, Szefer SJ. Pediatric Allergy; Principles and Practice, 6th edition. St. Louis: Mosby; 2003; 704 pages.
17. **Leung DYM**, Eichenfield LF. Pediatric Eczemas. New York: Summit Communications, LLC; 2004; 131 pages.
18. **Leung DYM**, Eichenfield LF. The Eczemas. New York: Summit Communications, LLC; 2004; 128 pages.
19. **Leung DYM**, Scheerer WS. Miniprimer on allergic diseases. *J Allergy Clin Immunol* 2006;117(2 Suppl Mini-Primer):S429.
20. **Leung DYM**, Sampson HA, Geha R, Szefer SJ. Pediatric Allergy: Principles and Practice, 2nd Edition. Elsevier; 2010; 688 pages.
21. **Leung DYM**, Szefer SJ, Bonilla FA, Akdis CA, Sampson HA. Pediatric Allergy: Principles and Practice, 3rd edition. Elsevier; 2016; 553 pages.
22. **Leung DYM**, Akdis CA, Bacharier LB, Cunningham-Rundles C, Sicherer SH, Sampson HA. Pediatric Allergy: Principles and Practice, 4th Edition. Elsevier; 2021; 426 pages.

Editorials

1. **Leung DY**. Allergy, immunology, and related disorders. *Curr Opin Pediatr* 1997;9:565-9.
2. **Leung DYM**. Moving the Journal to new heights. *J Allergy Clin Immunol* 1998;101:291-92.
3. **Leung DYM**. A new series and introduction of free color to the journal. *J Allergy Clin Immunol* 1999;103(1 Pt 1):25
4. Meissner HC, **Leung DYM**. Kawasaki disease. *Pediatr Infect Dis J* 1999;18(1):yellow pages [letter].
5. **Leung DYM**. The new millennium: the allergist triumphant [editorial]. *J Allergy Clin Immunol* 2000;105:37-8.
6. **Leung DYM**, Chrousos GP. Is there a role for glucocorticoid receptor beta in glucocorticoid-dependent asthmatics? *Am J Respir Crit Care Med* 2000;162:1-3.
7. **Leung DYM**, Hopper N. Learning from the past and looking to the future. *J Allergy Clin Immunol* 2002;109:22-3.
8. **Leung DYM** (Editor) Atopic dermatitis intervention to control the atopic march. *J Allergy Clinical Immunol* 2003;112:S117-S150.
9. **Leung DYM**, Shanahan WR Jr, Sampson HA. Response to "effect of anti-IgE therapy in patients with food allergy". *Ann Allergy Asthma Immunol* 2003;91:515-7.
10. Busse WW, **Leung DYM**. Perspectives in asthma. *J Allergy Clin Immunol* 2004;114:1022.
11. Novak N, **Leung DYM**. Diet and allergy: you are what you eat? *J Allergy Clin Immunol* 2005;115(6):1235-37.
12. Bender BG, **Leung DYM**. Sleep disorders in patients with asthma, atopic dermatitis, and allergic rhinitis. *J Allergy Clin Immunol* 2005;116:1200-1.
13. **Leung DYM**, Hopper NT, DuHadway T. Navigating today's success to prepare for tomorrow's exploration. *J Allergy Clin Immunol* 2006;117:753-5.
14. **Leung DYM**, Nelson HS, Szefer SJ. The editors' choice. *J Allergy Clin Immunol* 2006;118:293-94.
15. Shearer WT, **Leung DYM**. Preface to the 2006 mini-primer on allergic and immunologic diseases. *J Allergy Clin Immunol* 2006;117:S429. PMID: 16455340.

16. Szeffler SJ, Whelan GJ, **Leung DYM**. "Black box" warning: wake-up call or overreaction? *J Allergy Clin Immunol* 2006;117:26-29. PMID: 16387579.
17. **Leung DYM**. Early intervention in the management of atopic dermatitis. *Asia Pacific Allergy* 2011;1(2):51-52. PMCID: PMC3206253.
18. **Leung DYM**. Food allergy: are we getting closer to a cure? *J Allergy Clin Immunol* 2011;127(3):555-7. PMID: 21377029.
19. **Leung DYM**. Davos Declaration: Allergy as a global problem. *Allergy* 2012;67:141-43.
20. Sprecher E, **Leung DYM**. Atopic dermatitis: scratching through the complexity of barrier dysfunction. *J Allergy Clin Immunol* 2013;132(5):1130-1. PMID: 24176684.
21. Boguniewicz M, **Leung DYM**. Targeted therapy for allergic diseases: at the intersection of cutting-edge science and clinical practice. *J Allergy Clin Immunol* 2015;135(2):354-56. PMID: 25662304.
22. **Leung DYM**. Prophylactic emollient use beginning at birth prevents atopic dermatitis. *J Pediatr* 2015;166(3):777-80. PMID: 25722275.
23. **Leung DYM**. (2015, May 13) Can we prevent allergies? *The New York Times*.
24. **Leung DYM**. The Journal of Allergy and Clinical Immunology: A 17-year perspective. *J Allergy Clin Immunol* 2015;136(6):1471-3.e1-4. PMID: 26654195.
25. **Leung DYM**. NEJM Open Forum on LEAP ON study. March 2016.
26. **Leung DYM**. Cutaneous allergy: control that itch-scratch cycle! *Ann Allergy Asthma Immunol* 2019;123(2):115. PMID: 31376840.
27. **Leung DYM**. Allergic skin diseases beyond T_H2. *Ann Allergy Asthma Immunol*. 2020;124(1);1. PMID: 31836072.
28. **Leung DYM**, Berdyshev E, Goleva E. Association of atopic dermatitis and suicide: more than coincidence? *Ann Allergy Asthma Immunol*. 2020;125(1):4-5. PMID: 32564929.
29. Oppenheimer J, **Leung DYM**. New directions in asthma therapy. *Ann Allergy Asthma Immunol*. 2020 Aug;125(2):119. PMID: 32711821.
30. **Leung DYM**. Advances in cutaneous allergy. *Ann Allergy Asthma Immunol*. 2021 Jan;126(1):1-2. PMID:33292968.
31. **Leung DYM**. Immune-related cutaneous adverse events: a new opportunity for allergists and clinical immunologists. *Ann Allergy Asthma Immunol*. 2021 Jun;126(6):607. PMID: 34049668.
32. Hui-Beckman J, **Leung DYM**. The importance of considering mental health in the management of atopic dermatitis across the lifespan. *Ann Allergy Asthma Immunol*. 2021 Aug;127(2):159-160. PMID: 34348850.
33. Oppenheimer J, **Leung DYM**. Asthma, in quest of optimizing care. *Ann Allergy Asthma Immunol*. 2021 Nov;127(5):517. PMID: 34688425.
34. Oppenheimer J, **Leung DYM**. Asthma 2022 – Moving towards precision medicine. *Ann Allergy Asthma Immunol*. 2022 Apr;128(4):343. PMID: 35365251.
35. **Leung DYM**, Paller AS, Guttman-Yassky E. New therapies for atopic dermatitis: how will they impact skin care? *Ann Allergy Asthma Immunol*. 2022 Apr;128(4):344-345 PMID: 35093553.
36. **Leung DYM**. Targeting the skin in atopic dermatitis. *Ann Allergy Asthma Immunol*. 2022 May;128(5):481-482. PMID: 35489797.
37. Grayson MH, Borish L, Castells MC, Greenhawt MJ, **Leung DYM**, Lieberman JA, Marshall GD, Nowak-Wegrzyn A, Oppenheimer J, Shaker MS, Shulenberg K, Spergel J, Stukus DR. *Annals*

- editors on the war in Ukraine. Ann Allergy Asthma Immunol. 2022 Jun;128(6):619-620. PMID: 35342018.
38. Oppenheimer J, **Leung DYM**. Asthma 2022—moving toward precision medicine. Ann Allergy Asthma Immunol. 2022 Apr;128(4):343. PMID: 35365251.
 39. Ong P, **Leung DYM**. Dupilumab nonresponders in atopic dermatitis. Ann Allergy Asthma Immunol. 2022 Sep;129(3):267-268. PMID: 35988971.
 40. **Leung DYM**. 80th Anniversary of atopic dermatitis in the Annals of Allergy. Ann Allergy Asthma Immunol. 2024 Mar;132(3):261-262. PMID: 38432782.
 41. Shaker M, **Leung DYM**. Correlated, conflated, and confounded: The complex relationship between atopic dermatitis and food allergy. Ann Allergy Asthma Immunol. 2024 Jun;132(6):665-666.2024.03.019. PMID: 38839138.
 42. Goleva E, Lacouture M, Moy A, Kern J, **Leung DYM**. Immunologic Profiling of Immune-Related Cutaneous Adverse Events with Checkpoint Inhibitors Reveals Polarized Actionable Pathways – Letter. Clin Cancer Res. 2024 Jul 1;30(13):2822-2834. PMID: 38652814.PMCID: PMC11215405.
 43. **Leung DYM**. Management of atopic dermatitis with food allergy. Ann Allergy Asthma Immunol. 2024 Sep;133(3):231-232.
 44. **Leung DYM**. Post-pandemic, long COVID persists. Ann Allergy Asthma Immunol. 2024 Nov;133(5):489-490. PMID: 39488359.
 45. Kankam A, Cruz Vazquez JM, **Leung DYM**, Spergel JM, Nowak-Wegrzyn. Nothing good ever comes of Violence. Ann Allergy Asthma Immunol. 2024 December;133(6):619-620.
 46. Wan J, **Leung DYM**. Modulating mental health risk in atopic dermatitis with dupilumab: is it real or in our heads? Ann Allergy Asthma Immunol. 2025 March;134(3):255-256.

Other Publications:

1. DISSERTATION: Mechanical Forces and Connective Tissue Synthesis, **Donald YM Leung**, PhD Thesis, University of Chicago, 1975.

Abstracts (selected from >300 research presentations at national or international meetings):

2000

1. Spahn JD, Covar R, Brown EE, **Leung DYM**. Clinical characteristics of severe asthma. J Allergy Clin Immunol. 2000; 105(1 Pt 2):S284 (#834).
2. Thatayatikom A, **Leung DYM**, Gereda JE, Streib JE, Klinnert MD, Liu AH. Impaired endotoxin-induced type 1 responses in young and older asthmatics can be overcome with higher endotoxin doses. J Allergy Clin Immunol. 2000; 105(1 Pt 2):S280 (#824).
3. Gereda JE, Thatayatikom A, **Leung DYM**, Klinnert MD, Liu AH. Endotoxin in house dust is a potent inducer of IFN-gamma production. J Allergy Clin Immunol. 2000; 105(1 Pt 2):S297 (#872).
4. Paller A, Eichenfield LF, **Leung DYM**, Stewart D, Lawrence I, Tacrolimus Ointment Study Group. Topically applied tacrolimus ointment vs. vehicle ointment in pediatric patients with atopic dermatitis. Proceedings of the American Academy of Dermatology 58th Annual Meeting; 2000 Mar 10-15; San Francisco, CA. P111.

2001

5. Boguniewicz M, **Leung DYM**, Marshall K, Bush C, Graeber M, Cherill R, the Multi-Center Investigator Group. Treatment of children with atopic dermatitis (AD) with 1% SDZ ASM 981 cream (ASM). *J Allergy Clin Immunol* 2001;107(Pt 2):1009A.
6. Liu AH, Gereda JE, Price MR, **Leung DYM**, Klennert MD Metropolitan home living conditions associated with indoor endotoxin levels. *J Allergy Clin Immunol* 2001;107(Pt 2):96 A.
7. Nomura I, Katunuma T, Tomikawa M, Shibata A, Kawahara H, Ohya Y, Abe J, **Leung DYM**, Saito H, Akasawa A. Hypoproteinemia in severe childhood atopic dermatitis (AD); a serious complication. *J Allergy Clin Immunol* 2001;107(Pt 2):249A.
8. Ong PY, Jirapongsananuruk O, Strickland I, Boguniewicz, Muro S, Hamid QA, **Leung DYM**. Decreased production of IL-15 may contribute to acute atopic dermatitis and increased synthesis. *J Allergy Clin Immunol* 2001;107(Pt 2):774A
9. Rosenwasser LJ, Klemm JD, Klemm DJ, Drazen JM, Burchard EG, **Leung DYM**. Association of asthmatic steroid insensitivity with an IL-4 gene promoter polymorphism. *J Allergy Clin Immunol* 2001;107(Pt 2):S (#771 abstract).
10. Strickland I, Cho S-H, Boguniewicz M, **Leung DYM**. Fibronectin contributes to the enhanced binding of *Staphylococcus aureus* to atopic skin. *J Allergy Clin Immunol* 2001;107(Pt 2):281A.
11. Gelfand EW, Strickland I, **Leung DYM**, Rabinovitch N. Intravenous immunoglobulin decreases glucocorticoid receptor beta expression. *J Allergy Clin Immunol* 2001;107(Pt 2) 281A.
12. Gereda JE, **Leung DYM**, Thatayatikom A, Schita AM, Liu AH. *J Allergy Clin Immunol* 2001;107(Pt 2) 310A.

2002

13. **Leung DYM**, Cassell GH, Gutierrez J, Martin RJ, Kraft M. T cell responses to *Mycoplasma pneumoniae* (MP) in patients with chronic asthma. *J Allergy Clin Immunol* 2002;109;(1 Pt 2):21A.
14. Roy SR, **Leung DYM**, Schiltz AM, Liu AH. Microbial heat shock proteins (HSP) are found in farm dust but not metro homes, and potentiate IL-12 production. *J Allergy Clin Immunol* 2002;109;(1 Pt 2):72A.
15. Nomura I, Ong PY, Gao B, Boguniewicz M, **Leung DYM**. Differences in gene expression array of superantigen-stimulated. *J Allergy Clin Immunol* 2002;109;(1 Pt 2):224A.
16. Xu Q, Kisich KO, Strickland I, Lewis MT, **Leung DYM**. Increased expression of SR protein P30 in neutrophils. *J Allergy Clin Immunol* 2002;109;(1 Pt 2):338A.
17. Boguniewicz M, **Leung DYM**, Webster GF, Rico MJ. Long-term safety of topically applied tacrolimus ointment in adult atopic dermatitis patients. *J Allergy Clin Immunol* 2002;109;(1 Pt 2):471A.
18. Ong PY, Strickland I, Boguniewicz M, Kisich KO, **Leung DYM**. Reduced expression of human beta defensin-2 (HBD-2) and CCR6 in atopic dermatitis (AD). *J Allergy Clin Immunol* 2002;109;(1 Pt 2)779A.
19. Eichenfield L, **Leung DYM**. Potential role of pimecrolimus as maintenance therapy for atopic dermatitis. *J Allergy Clin Immunol* 2002;109;(1 Pt 2):782A.
20. Hauk PJ, Strickland I, Vottero A, Chrousos GP, Kisich KO, **Leung DYM**. Increased glucocorticoid receptor beta expression leads to reduced nuclear translocation of glucocorticoid receptor beta and impaired steroid responsiveness. *J Allergy Clin Immunol* 2002;109;(1 Pt 2):795A.
21. Liu AH, Schiltz AM, Thatayatikom A, Gereda JE, Price MR, **Leung DYM**, Klennert MD. IL-12 production in young children correlates with recent house-dust endotoxin exposure. *J Allergy Clin Immunol* 2002;109;(1 Pt 2):841A.

22. Nomura I, Abe J, Saito H, Noma S, **Leung DYM**. Adrenomedullin mRNA is highly expressed in PBMC of acute Kawasaki Syndrome. Seventh International Kawasaki Disease Symposium. December 4-7, 2001; abstract #10049.
23. Meissner HC, Schlievert PM, Shulman ST, Mason W, Wheeler G, Myones B, Glodé MP, Ruthazer R, Gerber MA, **Leung DYM**. A multicenter, controlled, blinded study to evaluate the role of bacterial superantigens in patients with Kawasaki syndrome. *Pediatr Res* 2002.
24. Kraft M, **Leung DYM**, Metze TL, Rex MD, Martin RJ. Mycoplasma and chlamydia pneumoniae alter glucocorticoid receptor beta (GR-beta) expression in the asthmatic airway. *Am J Respir Crit Care Med* 2002;165:477A.
25. Ohtake T, Ong PY, Brandt C, Strickland I, **Leung DYM**, Gallo RL. Deficiency of antibiotic peptides in atopic dermatitis explains susceptibility to infection. *J Invest Dermatol* 2002.

2003

26. Goleva E, Kisich KO, **Leung DYM**. Prevention of glucocorticoid receptor (GCR) nuclear translocation: a novel mechanism of IL-2-induced steroid resistance in T cells. *J Allergy Clin Immunol* 2003;111(2): #172, S112.
27. Hanifin JM, **Leung DY**, Paller A, Rico J. Tacrolimus ointment monotherapy is safe and effective for the long-term treatment (more than 3 years) of atopic dermatitis in pediatric patients. *J Allergy Clin Immunol* 2003;111(2):#244, S130.
28. Bender BG, Leung SB, **Leung DYM**. Actigraphy assessment of sleep disturbance in patients with atopic dermatitis. *J Allergy Clin Immunol* 2003;111(2): #246, S131.
29. Nomura I, Ong PY, Goleva E, Boguniewicz M, Hall C, Travers JB, Hamid QA, **Leung DYM**. Suppression of innate immune response genes in the skin of atopic dermatitis (AD). *J Allergy Clin Immunol* 2003;111(2): #816, S272.
30. **Leung DYM**, Sampson HA, Yunginger JW, Burks W, Schneider LC, Shanahan W. Effect of Anti-IgE therapy (TNX-901) in patients with severe peanut allergy. *J Allergy Clin Immunol* 2003;111(2): #826, S274.
31. Jones JF, Howell MD, Kisich KO, Streib JE, Gallo RL, **Leung DYM**. Deficiency of LL-37 in atopic skin may contribute to eczema vaccinatum (EV). *J Allergy Clin Immunol*. 2003;111(4):908 (#L2-late breaking abstract).

2004

32. **Leung DYM**, Novak N, Boguniewicz M, Bieber T, Howell MD. Elevated level of IL-10 in intrinsic (IAD) and extrinsic atopic dermatitis (EAD) is associated with deficiency in anti-microbial peptide (AMP) production. *J Allergy Clin Immunol*; 113(2): #285, S96.
33. Dunlap AS, Goleva E, **Leung DYM**. Control of T-cell responses by the combination of low dose steroids with beta2 agonists. *J Allergy Clin Immunol* 2004; 113(2): #49, S37.
34. Howell MD, Streib JE, Kisich KO Jones JF, Gallo RL, **Leung DYM**. Increased propensity of atopic dermatitis (AD) patients to viral infections may be due to Th2 cytokines which down-regulate cathelicidins with anti-viral activity. *J Allergy Clin Immunol* 2004; 113(2): #105, S52.
35. Li L, Goleva E, **Leung DYM**. The mitogen-activated protein kinase extracellular signal-regulated kinase 1/2 (ERK 1/2) pathway is involved in superantigen (SAg)-induced steroid resistance of human T cells. *J Allergy Clin Immunol* 2004; 113(2): #742, S211.
36. Ou L-S, Goleva E, **Leung DYM**. T regulatory cells in atopic dermatitis (AD) and subversion of their activity by superantigens. *J Allergy Clin Immunol* 2004;113(2): #284, S96.
37. Goleva E, Martin RJ, **Leung DYM**. Combination of IL-2 and IL-4 inhibits glucocorticoid receptor alpha (GCR-alpha) nuclear translocation in peripheral blood mononuclear cells (PBMC) and this

effect is reversed by gamma interferon. *J Allergy Clin Immunol* Submitted 2004; 113(2):Abstr#275, S93.

38. Spahn JD, Covar R, Federico M, Brown EE, **Leung DYM**. Racial differences in T lymphocyte response to glucocorticoids. *J Allergy Clin Immunol* 2004; 113(2): #272, S92.
39. Xu Q, Goleva E, **Leung DYM**. Induce corticosteroid unresponsiveness in B-cells treated with IL-15. *J Allergy Clin Immunol* 2004;113(2): #752, S214.
40. Leo H, Bender BG, Leung SB, **Leung DYM**. The effect of pimecrolimus 1% cream on skin condition and sleep parameters in children with mild to moderate atopic dermatitis (AD). *J Allergy Clin Immunol* 2004; 113(2): #1239, S334.

2005

41. Ou LS, Cardona ID, Goleva E, **Leung DYM**. Stimulation of IL-2 by superantigens (SAGs) subvert T regulatory (Treg) cell activity. *J Allergy Clin Immunol* 2005;115(2):#1093, S274.
42. Howell MD, Boguniewicz M, Streib JE, Wong C, Gallo RL, **Leung DYM**. Th2 Cytokines down-regulate cathelicidin expression and increases atopic dermatitis (AD) skin susceptibility to viral infection. *J Allergy Clin Immunol* 2005;115(2): #567, S142.
43. **Leung DYM**, Streib JE, Savage PB, Howell MD, Cationic steroid antibiotics (CSA) exhibit cytotoxic activity against vaccinia virus (VV). *J Allergy Clin Immunol* 2005;115(2):#1083, S272.

2006

44. Cardona ID, Ou LS, Goleva E, **Leung DYM**. Superantigens (SAGs) subvert T regulatory (Treg) cell activity by inducing expression of GITR-L on monocytes. *J Allergy Clin Immunol* 2005;115(2):#1082, S271.
45. Goleva E, **Leung DYM**. Cytokines inducing corticosteroid resistance (CR) modulate mitogen induced kinase phosphatase 1 (MKP-1) expression in peripheral blood mononuclear cells (PBMC): Implications for steroid resistant (SR) asthma. *J Allergy Clin Immunol* 2005;115(2):#476, S119.
46. Cardona ID, Goleva E, Howell MD, Ou L-S, Boguniewicz M, **Leung DYM**. Glucocorticoid-induced TNF receptor related ligand is increased in atopic dermatitis skin. *J Allergy Clin Immunol* 2006;117(2 Suppl 1):Abstract #559, S268.
47. Gelfand EW, Dakhama A, Miyahara N, Wenzel SE, Sutherland, Goleva E, Martin RJ, **Leung DYM**. CD8+/BLT1+/IL-13+ T cells in (human) asthma: Is there a link to steroid-resistance? *J Allergy Clin Immunol* 2006;117(2 Suppl 1):Abstract #937, S24.
48. Goleva E, Li L, Martin RJ, **Leung DYM**. Functional alteration of steroid responses in steroid resistant asthma by increased glucocorticoid receptor beta expression. *J Allergy Clin Immunol* 2006;117(2 Suppl 1): Abstract #587, S151.
49. Hauk PJ, Goleva E, Liu AH, Hall CF, Riches DWH, Martin RJ, **Leung DYM**. Corticosteroid resistant asthma is associated with classical activation of airway macrophages and exposure to lipopolysaccharide. *J Allergy Clin Immunol* 2006;117(2 Suppl 1):Abstract #749, S194.
50. Howell MD, Streib JE, Novak N, Bieber T, Boguniewicz M, Pastore S, Girolomoni G, **Leung DYM**. Deficient HBD-3 in the skin of atopic dermatitis patients increases susceptibility to recurrent viral skin infections. *J Allergy Clin Immunol* 2006;117(2 Suppl 1):Abstract #721, S186.
51. Kim BE, Streib JE, Boguniewicz M, **Leung DYM**, Howell MD. Anti-viral effects of C-C chemokine macrophage inflammatory peptide 3 alpha (MIP-3alpha). *J Allergy Clin Immunol* 2006;117(2 Suppl 1):Abstract #1037, S233.
52. **Leung DYM**, Wollenberg A, Gallo RL, Flaig M, Novak N, Bieber T, Boguniewicz M, Streib JE, Wong C, Pavicic T, Howell MD. Atopic dermatitis and eczema herpeticum: Role of cathelicidins in herpes simplex virus infection. *J Allergy Clin Immunol* 2006;117(2 Suppl 1):Abstract #726, S187.

53. Li L, **Leung DYM**, Goleva E. Potential role of the glucocorticoid receptor (GCR) beta in glucocorticoid (GC) dependent histone H4 acetylation J Allergy Clin Immunol 2006;117(2 Suppl 1): Abstract #559, S144.
54. Poole JA, Barriga K, **Leung DYM**, Hoffman M, Eisenbarth GS, Rewers M, Norris JM. Timing of Initial exposure to cereal grains and the risk of wheat Allergy. J Allergy Clin Immunol 2006;117(2 Suppl 1):Abstract #168, S42.

2007

55. Beuther DA, Sutherland ER, Martin RJ, **Leung DYM**. Obesity is associated with glucocorticoid resistance in asthma. Am J Respir Crit Care Med 2007;175:Abstract #196.
56. Beck LA, Latchney L, Zaccaro D, **Leung DYM**, for the Atopic Dermatitis Vaccinia Network (ADVNI) Study Group. Disease severity and biomarkers of Th2 polarity are predictive of atopic dermatitis subjects risk for eczema herpeticum. J Invest Dermatol 2007;(1 Suppl 1):Abstract #748, S125.
57. Bender BG, Ballard RD, **Leung DYM**. Objective measurement of sleep quality, scratching, and cytokine response in atopic dermatitis (AD). J Allergy Clin Immunol 2007;119(1 Suppl 1):Abstract #1102A, S155.
58. Boguniewicz M, Schneider L, **Leung DYM**, Hultsch T, Spergel J. The allergic profile of infants in the SAM study: A large longitudinal Study of development of asthma and allergies in patients with atopic dermatitis. J Allergy Clin Immunol 2007;119(1 Suppl 1):Abstract #822A, S209.
59. Elkhail A, Scott J, MacArthur DH, He R, Howell MD, Freyschmidtqa E, Oettgen HC, **Leung DYM**, Geha RS. A murine model of eczema vaccinatum. J Allergy Clin Immunol 2007;119(1 Suppl 1):Abstract #791A, S284.
60. Fairchild HR, **Leung DYM**, Howell MD. IL-4 and IL-13 induction of SOCS-3 negatively regulates TNF-alpha and IFN-gamma induced human beta defensin (HBD)-3 expression in keratinocytes. J Allergy Clin Immunol 2007;119(1 Suppl 1):Abstract #611A, S155.
61. Goleva E, Hauk PJ, Boguniewicz J, Martin RJ, **Leung DYM**. Airway remodeling and lack of bronchodilator response in steroid resistant (SR) asthma. J Allergy Clin Immunol 2007;119(1 Suppl 1):Abstract #610A, S155.
62. Hauk PJ, Goleva E, Liu AH, Hall CF, Martin RJ, **Leung DYM**. Dog ownership: A risk factor of corticosteroid-resistant (CR) asthma? J Allergy Clin Immunol 2007;119(1 Suppl 1):Abstract #644A, S164.
63. Howell MD, Kim BE, Boguniewicz M, **Leung DYM**. Modulation of filaggrin by TH2 cytokines in the skin of atopic dermatitis. J Allergy Clin Immunol 2007;119(1 Suppl 1):Abstract #1108A, S263.
64. Li L, **Leung DYM**, Goleva E. Impaired corticosteroid-induced transactivation in human CD8+ T cells. J Allergy Clin Immunol 2007;119(1 Suppl 1):Abstract #358A, S91.
65. Salt BH, Boguniewicz M, **Leung DYM**. Severe refractory atopic dermatitis (AD) in adult patients, as compared to quiescent and moderate AD is highly atopic. J Allergy Clin Immunol 2007;119 (1 Suppl 1):Abstract #1111, 284A.
66. Sampson HA, **Leung DYM**, Burks W, et al. A phase II, randomized, double-blind, parallel-group, placebo-controlled, oral food challenge trial of XOLAIR® (omalizumab) in peanut allergy (TOPS). J Allergy Clin Immunol 2007; 119 (1 Suppl 1): S117.
67. Spergel J, Boguniewicz M, Tsai V, Harbeck R, Pinzone K, Leung SB, **Leung DYM**. Immunologic phenotype in the atopic march (AM). J Allergy Clin Immunol 2007;119(1 Suppl 1):Abstract #1114A, S284.
68. Bankova LG, Brummet ME, Grigoryev DN, Cheadle C, Barnes KC, **Leung DYM**, Beck LA. GM-CSF and NF-κB Pathways are dysregulated in neutrophils from atopic dermatitis subjects. J Invest Dermatol 2007;127(Suppl 1):Abstract #729, S122.

69. De Benedetto A, McGirt L, Latchney L, Cheadle C, **Leung DYM**, Barnes KC, Beck LA. Altered expression of epithelial proteins observed in nonlesional skin of atopic dermatitis subjects. *J Invest Dermatol* 2007;127(Suppl 1):Abstract #472, S79.
70. **Leung DYM**, Abrams B, Wisseh S, Schlievert PM, for Steroid Resistant AD Study Group. Association of staphylococcal superantigens with corticosteroid resistant atopic dermatitis: Clinical response to pimecrolimus cream 1%. *J Invest Dermatol* 2007;127(Suppl 1):Abstract #324, S54.
71. Man M, Hatano Y, Lee SH, Man M, Shi Y, Chang S, Feingold KR, **Leung DYM**, Holleran W, Uchida Y, Elias PM. Characterization of a hapten-induced, murine model of atopic dermatitis. *J Invest Dermatol* 2007;127(Suppl 1): Abstract #474, S79.

2008

72. Beck LA, Latchney LR, Zaccaro D, Reese j, Schneider L, Gallo RL, Hata T, Hanifin JM, Boguniewicz M, **Leung DYM**. Biomarkers of disease severity and Th2 polarity are predictors of risk for eczema herpeticum. *J Allergy Clin Immunol* 2008;121(2, Suppl 1):Abstract #145, S37.
73. Byrne A, **Leung DYM**, Cardona ID, Hamid QA, Goleva E. Induction of GTR-ligand expression in keratinocytes by the TH2 cytokines: Implications for atopic dermatitis (AD). *J Allergy Clin Immunol* 2008;121(2, Suppl 1):Abstract #568, S147.
74. Goleva E, Li L, **Leung DYM**. Interferon gamma (γ IFN) reverses IL-2 and IL-4 mediated T cell steroid resistance by inhibiting p38 MAPK phosphorylation. *J Allergy Clin Immunol* 2008;121(2, Suppl1):Abstract 60, S16. PMID: PMC2633143
75. Hall CF, **Leung DYM**, Covar R, Canono EP, Dunlap AP, Brown EE, Strand MJ, Goleva E. Association of CD14 (-260C/T) gene polymorphisms with T cell insensitivity to corticosteroids. *J Allergy Clin Immunol* 2008;121(2, Suppl 1):Abstract #553, S143.
76. Hauk PJ, Krawiec M, Boguniewicz J, Schiltz AM, Goleva E, Liu AH, **Leung DYM**. Poorly controlled childhood asthma is associated with increased bacterial lipopolysaccharide (LPS) and expression of markers of airway remodeling in bronchoalveolar lavage (BAL). *J Allergy Clin Immunol* 2008;121(2, Suppl 1):Abstract #1058, S274.
77. Howell MD, Geng D, Streib JE, Savage PB, **Leung DYM**. Ceragenins: A new class of anti-vaccinia viral compounds. *J Allergy Clin Immunol* 2008;121(2, Suppl 1):Abstract #1047, S271.
78. Kim BE, **Leung DYM**, Boguniewicz M, Howell MD. Loricrin and involucrin expression is down-regulated by Th2 cytokines through STAT-6. *J Allergy Clin Immunol* 2008;121(2, Suppl 1):Abstract #1050, S272.
79. **Leung DYM**, Fairchild HR, Boguniewicz M, Redzic JS, Hansen KC, Howell MD. Th2 cytokines act on S100/A11 to down-regulate keratinocyte differentiation: Implications for atopic dermatitis. *J Allergy Clin Immunol* 2008;121(2, Suppl 1):Abstract #1051, S272.
80. Nomura I, **Leung DYM**, Saito A, Fukuie T, Akashi M, Suda T, Narita M, Akasawa A, Ohya Y. Severe protein loss in atopic dermatitis: Summary of 50 patients. *J Allergy Clin Immunol* 2008;121(2, Suppl 1):Abstract #131, S234.
81. Schneider LC, Weinberg A, Boguniewicz M, Zaccaro D, Taylor P, Borrás-Coughlin I, Heughan L, Samuels R, **Leung DYM**. Abnormal immune response to varicella vaccine in subjects with atopic dermatitis compared to non-atopic controls. *J Allergy Clin Immunol* 2008;121(2, Suppl 1):Abstract #1052, S272.
82. Sicherer SH, Stablein D, Jones S, Wood RA, Burks AW, Liu AH, Fleischer DM, **Leung DYM**, Ullah J, Lindblad R, Sampson HA, for the Consortium of Food Allergy Research. Indicators of increased risk for peanut sensitization/likely allergy among 3-15 month olds at time of entry to an observational study (CoFAR) of food allergy. *J Allergy Clin Immunol* 2008;121(2, Suppl 1):Abstract #372, S96.
83. Spergel JM, Boguniewicz M, Orange J, Pinzone K, Leung SB, Harbeck R, **Leung DYM**. CLA+T

cells play an important role in the atopic march (AM). *J Allergy Clin Immunol* 2008;121(2, Suppl 1):Abstract #133, S34.

84. Klinnert MD, Covar R, Solanyk S, Goleva E, **Leung DYM**. Environmental tobacco smoke (ETS) exposure and steroid responsiveness among children with asthma. *Am J Resp Crit Care Med* 2008;177: A900.
85. Zhang Y, Goleva E, **Leung DYM**. LB6 estrogen inhibits corticosteroid induction of the mitogen-Induced kinase phosphatase gene. (Late breaking abstract) *J Allergy Clin Immunol* 2008;121(3):Abstract #LB5, 792.

2009

86. Abbott JK, Howell MD, Lesley L, Inderlied C, Church JA, **Leung DYM**, Ong PY. Mechanisms of *Staphylococcus aureus* clearance after wet-wrap treatment in severe atopic dermatitis patients. *J Allergy Clin Immunol* 2009;123(2 Suppl1):Abstract #126, S36.
87. Rafaels NM, Hand T, Boguniewicz M, Hata TR, Schneider L, Hanifin JM, Gallo RL, Gao L, Yang M, Beaty TH, Beck LA, **Leung DYM**. Filaggrin R501X mutation is associated with an increased susceptibility to atopic dermatitis and eczema herpeticum, and associated phenotypes in a European population. *J Allergy Clin Immunol* 2009;123(2 Suppl1):Abstract #119, S34.
88. Bender BG, Ballard R, Jones WC, **Leung DYM**. Variations in the CCL20 and CCR6 Genes are Associated with Atopic dermatitis and eczema herpeticum in populations of European and African descent. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #136, S39.
89. Bin LH, Howell MD, Streib JE, **Leung DYM**. Inhibition of S100A11 gene expression impairs keratinocyte response against vaccinia virus: Implications for eczema vaccinatum. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #116, S34.
90. Byrne AM, **Leung DYM**, Goleva E. Ligation of GITRL induces chemokine production by keratinocytes. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #113, S33.
91. De Benedetto A, Rafaels NM, **Leung DYM**, Ivanov AI, Hand T, Gao L, Yang M, Boguniewicz M, Hata TR, Schneider L, Hanifin JM, Gallo RL, Barnes KC, Beck LA. Variants in the tight junction gene, claudin-1 are associated with atopic dermatitis in two American populations and may contribute to skin barrier dysfunction *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #574, S150.
92. Fleischer DM, Jones SM, Ullah J, Stablein D, Wood RA, Burks AW, Liu AH, **Leung DYM**, Lindblad R, Sampson HA, Sicherer SH, for the Consortium of Food Allergy Research. Characteristics of food allergic reactions in a multi-center observational study (CoFAR2) of food allergy. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #701, S183.
93. Gao P, **Leung DYM**, Rafaels NM, Hand T, Boguniewicz M, Hata TR, Schneider L, Hanifin JM, Gallo RL, Gao L, Yang M, Beaty TH, Beck LA, Barnes KC. Genetic variants in TSLP and its receptor, IL7R, contribute to an increased risk for atopic dermatitis and eczema herpeticum in two American populations. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #257, S70.
94. Goleva E, Covar R, Sutherland ER, Martin RJ, Szeffler SJ, **Leung DYM**. Increased prevalence of abnormalities in glucocorticoid pharmacokinetics among clinically steroid resistant obese asthmatics. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #299, S81.
95. Grigoryev DN, Howell MD, Watkins T, Chen Y, Cheadle C, Boguniewicz M, Barnes KC, **Leung DYM**. Identification of differences in the molecular response to vaccinia virus in atopic dermatitis and psoriasis skin. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #309, S83.
96. Hauk PJ, Jackson LP, Krawiec ME, Brugman SM, Boguniewicz J, Goleva E, **Leung DYM**. Presence of bacteria in the lower airways of children with chronic cough and wheezing. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #309, S83.
97. Howell MD, Kim BE, **Leung DYM**. Immunomodulatory effect of rapamycin on innate immune response genes. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #115, S33.

98. **Leung DYM**, Boguniewicz M, Taylor P, Canniff JD, Kesler KL, Armstrong BD, Weinberg AD. Abnormal immune responses to herpes simplex in subjects with atopic dermatitis complicated by eczema herpeticum. *J Allergy Clin Immunol* 2009;123(2 Suppl1):Abstract #116, S34.
99. Li L, **Leung DYM**, Goleva E. Glucocorticoid receptor beta (GCR)-beta regulates HDAC2 expression in bronchoalveolar lavage cells (BAL) and peripheral blood mononuclear cells (PBMC) of asthmatics. *J Allergy Clin Immunol* 2009;123(2 Suppl 1):Abstract #558, S146.
100. Rafaels NM, Beck LA, Gao P, Hand T, Boguniewicz M, Hata TR, Schneider L, Hanifin JM, Gallo RL, Gao L, Yang M, Beaty TH, **Leung DYM**, Barnes KC. Variations in the CCL20 and CCR6 genes are associated with atopic dermatitis and eczema herpeticum in populations of European and African descent. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #256, S70.
101. Roshdy O, Prefontaine D, Chouiali F, Vazquez-Tello A, Boguniewicz M, Howell MD, He R, Geha RS, **Leung DYM**, Hamid QA. TH-17-associated cytokines in atopic dermatitis. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #130, S37.
102. Sicherer SH, Stablein D, Wood RA, Burks AW, Liu AH, Jones SM, Fleischer DM, **Leung DYM**, Lindblad R, Sampson HA. Natural course of egg, milk and peanut allergy using a novel diagnostic scheme: 1 year follow-up in an observational study (CoFAR2) of food allergy. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #677, S177.
103. Spears GC, Miyazawa NK, Gleason MC, Gyorkos EA, Wilson CG, Murphy JR, Um JM, Atkins D, Bock SA, **Leung DYM**, Fleischer DM. Over-reliance on serum testing for IgE to food allergens results in inappropriate food elimination diets. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #686, S179.
104. Spergel J, Boguniewicz M, Orange J, Pinzone K, Harbeck R, Leung SB, **Leung DYM**. Immunological analysis of the atopic march (AM). *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #314, S84.
105. Wood RA, Sicherer S, Stablein D, Jones S, Burks AW, Liu A, Fleischer D, **Leung DYM**, Lindblad R, Sampson HA. Trends in milk, egg, and peanut IgE levels over time in an observational study of infants with food allergy (COFAR2): One year follow up. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #671, S175.
106. Zhang Y, Goleva E, **Leung DYM**. Vitamin D enhances glucocorticoid-induced mitogen-activated protein kinase phosphatase-1 (MKP-1) expression and their anti-proliferative effect in peripheral blood mononuclear cells. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #459, S121.

2010

107. Bin L, Bin LH, Kim BE, Howell MD, **Leung DYM**. Specificity protein 1 is pivotal in keratinocyte response against vaccinia virus: Potential implications for eczema vaccinatum. *J Allergy Clin Immunol* 2010; 125(2)L3:AB357.
108. Byrne AM, Hall CF, Boguniewicz M, Salt BH, Goleva E, **Leung DYM**. Differential gene expression in persistent as compared to resolved atopic dermatitis. *J Allergy Clin Immunol* 2010; 125(2):#369, AB94.
109. Gao PS, **Leung DY**, Rafaels NM, Hand T, Boguniewicz M, Hataz T, Schneider L, Hanifin JM, Gallo RL, Gao L, Beaty TH, Beck L, Barnes KC. Genetic variants in interferon regulatory factor 2 (IRF2) are associated with atopic dermatitis and eczema herpeticum In populations of European and African descent. *J Allergy Clin Immunol* 2010;125(2):#906 AB232.
110. Goleva E, Jackson LP, **Leung DYM**. Clara cell uteroglobin is a marker of steroid resistant asthma. *J Allergy Clin Immunol* 2010;125(2):#493, AB125.
111. Hauk PJ, Goleva E, Jackson LP, Brugman SM, Krawiec ME, **Leung DYM**. Bacteria in the lower airways of children with asthma, chronic cough and wheezing. *J Allergy Clin Immunol* 2010;125(2):#184, AB46.

112. Howell MD, Lesley LJ, Kim BE, Streib JE, Taylor P, Zaccaro D, Boguniewicz M, **Leung DYM**. Increased risk of eczema vaccinatum in atopic dermatitis patients with a history of herpetic infections. *J Allergy Clin Immunol* 2010;125(2):#368, AB93.
113. Jones SM, Fleischer DM, Sicherer SH, Wood RA, Lindblad R, Stablein D, Liu AH, Shreffler W, **Leung DYM**. Egg oral immunotherapy (OIT) induces clinical desensitization in a double-blind, placebo-controlled (DBPC) trial in egg allergic children from the Consortium of Food Allergy Research (CoFAR). *J Allergy Clin Immunol* 2010;125(2):L6 AB357.
114. Kim BE, **Leung DYM**, Boguniewicz M, Howell MD Tumor necrosis factor (TNF)-alpha down-regulates loricrin and involucrin. *J Allergy Clin Immunol* 2010;125(2):#364, AB92.
115. **Leung DYM**, Lesley LJ, Streib JE, Dunlap A, Howell MD p21 deficiency Increases susceptibility of developing eczema vaccinatum: implications for atopic dermatitis. *J Allergy Clin Immunol* 2010;125(2):#745, AB190.
116. Li L, **Leung DYM**, Goleva E. Repression of glucocorticoid receptor (GCR) transactivation and glucocorticoid response elements (GREs) activities within human HDAC2 gene promoter by GCR-beta. *J Allergy Clin Immunol* 2010;125(2):#412, AB104.
117. Liu AH, Sicherer SH, Schiltz AM, Henning A, Stablein D, Wood RA, Burks AW, Jones SM, Fleischer DM, **Leung DYM**, Shreffler WG, Lindblad R, Mayer L, Sampson HA. Toll-like receptor polymorphisms in infants with likely milk/egg allergy: consortium for food allergy research (CoFAR). *J Allergy Clin Immunol* 2010; 125(2):#848 AB216.
118. Searing DA, Murphy J, Hauk P, **Leung DYM**. Vitamin D levels in children with asthma, atopic dermatitis, and food allergy. *J Allergy Clin Immunol* 2010; 125(2):#176, AB44.
119. Shreffler WG, Sicherer SH, Wood RA, Stablein D, Burks AW, Liu AH, Jones SM, Fleischer DM, **Leung DYM**. IgE sensitization to milk and peanut are associated with increased IL-4 but not GATA-3 expression from antigen-stimulated leukocytes in atopic infants (CoFAR Observational Study of Food Allergy). *J Allergy Clin Immunol* 2010;125(2):#916, AB234.
120. Zhang Y, Goleva E, **Leung DYM**. Vitamin D has corticosteroid sparing effects by enhancing glucocorticoid induced mitogen-activated protein kinase phosphatase-1. *J Allergy Clin Immunol* 2010;125(2):#216, AB54.

2011

121. Bin L, Howell MD, Kim BE, CF, DJ Zaccaro DJ, **Leung DYM**. Specificity protein 1 is pivotal in the skin's anti-viral response. *J Allergy Clin Immunol* 2011; 127(Suppl 2):#560, AB148.
122. De Benedetto A, Rafaels NM, Dubois M, Bolognino M, **Leung DYM**, Barnes KC, Slifka MK, Beck LA. Reductions in an epidermal tight junction protein enhance atopic dermatitis subjects' susceptibility to HSV infections. *J Allergy Clin Immunol* 2011; 127(Suppl 2):#518, AB137.
123. Gao PS, **Leung DYM**, Rafaels NM, Boguniewicz M, Armstrong B, Zaccaro DJ, Schneider LC, Hata TR, Hanifin JM, Beck LA, Weinberg A, Barnes KC. Interferon-gamma (IFNG) and IFNGR1 gene variants are associated with atopic dermatitis complicated by eczema herpeticum (ADEH) and IFN production. *J Allergy Clin Immunol* 2011; 127(Suppl 2):#519, AB137.
124. Goleva E, Jackson LP, Richers BN, Searing DA, **Leung DYM**. Asthmatics with insufficient serum vitamin D levels have reduced response to corticosteroids in vitro. *J Allergy Clin Immunol* 2011; 127(Suppl 2):#547, AB145.
125. Grigoryev DN, Howell M, Watkins TN, Cheadle C, Boguniewicz M, Barnes KC, **Leung DYM**. Atopic dermatitis associated with eczema herpeticum is associated with abnormal expression of keratin genes in skin biopsies. *J Allergy Clin Immunol* 2011;127(Suppl 2):#134, AB134.
126. Jackson LP, **Leung DYM**, Gleason MC, Goleva E. Reduced response to corticosteroids in PBMC from patients with steroid resistant asthma. *J Allergy Clin Immunol* 2011;127(Suppl 2):#144, AB543.

127. Kim BE, Howell MD, Guttman E, Gilleaudeau P, Cardinale I, Boguniewicz M, Krueger J, **Leung DYM**. TNF-alpha down-regulates filaggrin and loricrin through c-Jun N-terminal kinase: Role for TNF antagonists to improve skin barrier. *J Allergy Clin Immunol* 2011;127(Suppl 2):#148, AB561.
128. Milgrom H, Kesler K, Byron M, Harbeck R, Holliday R, **Leung DYM**. Response to cutaneous immunization with low molecular weight subunit keyhole limpet hemocyanin (KLH). *J Allergy Clin Immunol* 2011;127(Suppl 2):#890, AB230.
129. Rafaels NM, **Leung DYM**, Beck L, Gao PS, Campbell M, Boguniewicz M, Hata T, Schneider L, Hanifin J, Gallo R, Gao L, Beaty TH, Barnes KC. Variations in the FLG2 gene are associated with eczema herpeticum in populations of European and African descent. *J Allergy Clin Immunol* 2011;127(Suppl 2):#521, AB138.
130. Scurlock AM, **Leung DYM**, Sampson HA, Lindblad R, Liu AH, Wood RA, Jones SM, Plaut M, Burks W, Stablein D, Sicherer SH. Association of atopic dermatitis (AD) severity to milk and egg allergy outcomes in a cohort of atopic, food-allergic children (COFAR). *J Allergy Clin Immunol* 2011;127(Suppl 2):#126, AB36.
131. Searing DA, Goleva E, Liu AH, Murphy JR, **Leung DYM**. Proof of concept study of serum vitamin D levels and markers of asthma severity in children and adults. *J Allergy Clin Immunol* 2011;127(Suppl 2):#203, AB55.
132. Dakhama A, Collins ML, Goleva E, **Leung DYM**, Alam R, Sutherland ER, Martin RJ, Gelfand EW. Role of IL-13-producing BLT1-positive CD8 T cells in Asthmatic Airway Obstruction. *Eur Respir J* 2011; 38, (Suppl. 55):702s, 2011.

2012

133. **Leung DYM**, Searing DA, Jackson LP, Richers BN, Goleva E. Steroid Requirements and Immune Associations With Vitamin D Are Stronger In Children Than Adults With Asthma. *J Allergy Clin Immunol* 2012; 129 (2) Suppl; AB127.
134. Nunez RA, Jackson LP, Goleva E, **Leung DYM**, Hauk PJ. Body Mass and Corticosteroid response in Childhood Asthma. *J Allergy Clin Immunol* 2012; 129 (2) Suppl; AB127.
135. Hauk PJ, Goleva E, Jackson LP, Brugman S, Krawiec M, **Leung DYM**. Bacterial Lipopolysaccharide Triggers Dose-Dependent, Distinct Airway Inflammation in Childhood Asthma. *J Allergy Clin Immunol* 2012; 129 (2) Suppl; AB370.
136. Bin L, Goleva E, Streib J, Hall C, Schlievert PM, **Leung DYM**. Staphylococcus Aureus Alpha-Toxin Augments Viral Load In Keratinocytes. *J Allergy Clin Immunol* 2012; 129 (2) Suppl; AB206.
137. Abbott J, Everett DC, **Leung DYM**. MRSA Skin Colonization Is Associated With Higher Total IgE in Young Children With Atopic Dermatitis. *J Allergy Clin Immunol* 2012; 129 (2) Suppl; AB39.
138. De Benedetto A, Yoshida T, Kuo I, Georas SN, Ivanov A, **Leung DY**, Beck LA. Effect of Th2 and Th17 Cytokines on Human Epidermal Tight Junctions. *J Allergy Clin Immunol* 2012; 129 (2) Suppl; AB205.
139. Goleva E, Harris JK, Martin RJ, Dakhama A, Alam R, Gelfand EW, **Leung DYM**. Asthma control and disordered microbial communities in the lower airways of patients with poorly controlled asthma. *J Allergy Clin Immunol* 2012;129(2)Suppl;AB128.
140. Kuo I, DeBenedetto A, Yoshida T, McGirt LY, **Leung DYM**, Beck LA. Th2 Cytokines Compromise The Function of TLR2 In Human Keratinocytes. *J Allergy Clin Immunol* 2012;129(2)Suppl;AB163.
141. Kim B, Bin L, **Leung DYM**. IL-25 Down-regulates Epidermal Barrier Proteins and Enhances Viral Replication. *J Allergy Clin Immunol* 2012;129(2)Suppl;AB364.
142. Gao L, Taylor D, Rafaels NM, Campbell M, Lewis R, Ribera CV, Beck LA, Mathias RA, **Leung DYM**, Barnes KC. The Association of Polymorphisms in the Interleukin 33 (IL33) and Interleukin 1 Receptor-like 1 (IL1RL1) Genes with Risk of Atopic Dermatitis. *J Allergy Clin Immunol*

2012;129(2)Suppl;AB36.

143. Vergara C, Rafaels N, Gao L, Foster C, Campbell M, Potee J, Lewis R, Beaty TH, Jones S, Burks AW, Sicherer S, Wood RA, Stablein D, Beck LA, Sampson HA, Liu AH, **Leung DYM**, Mathias RA, Barnes KC. Genetic variants associated with asthma and related phenotypes are also risk factors for food allergy. *J Allergy Clin Immunol* 2012;129(2)Suppl;AB206.
144. Zhang Y, **Leung DYM**, Richers BN, Liu Y, Remigio LK, Riches DW, Goleva E. Vitamin D inhibits monocyte/macrophage pro-inflammatory cytokine production by targeting mitogen-activated protein kinase phosphatase-1. *J Allergy Clin Immunol* 2012;129(2)Suppl;AB146.
145. Gao PS, Rafaels NM, Boguniewicz M, Schneider LC, Hata TR, Hanifin JM, Vergara C, Beck LA, Mathias RA, Barnes KC, **Leung DYM**. Association of gene variant in IL12B gene with atopic dermatitis complicated by eczema herpeticum (ADEH). *J Allergy Clin Immunol* 2012;129(2)Suppl;AB364.
146. Mathias RA, Rafaels N, Vergara C, Boguniewicz M, Hata T, Schneider L, Hanifin JM, Gallo RL, Beaty TH, Beck LA, Barnes KC, **Leung DYM**. The association between HLA B7 alleles and human atopic dermatitis complicated by eczema herpeticum. *J Allergy Clin Immunol* 2012;129(2)Suppl;AB205.
147. Rafaels NM, **Leung DYM**, Beck L, Lewis R, Huang L, Gao P, Boguniewicz M, Hata T, Schneider L, Hanifin J, Gallo R, Gao L, Mathias RA, Barnes KC. Sequencing of the Flg2 gene in patients with atopic dermatitis and eczema herpeticum in a population of European descent. *J Allergy Clin Immunol* 2012;129(2)Suppl;AB37.

2013

148. Mohiuddin MS, Ramamoorthy P, Reynolds PR, Curran-Everett D, **Leung DYM**. Increased compound heterozygous filaggrin mutations in severe atopic dermatitis in the United States. *J Allergy Clin Immunol Pract* 2013;1(5):534-6. PMID: 24565632
149. **Leung DYM**, Cheadle C, Streib J, Madigan T, Leung SB, Bronchick C, Rhee S, Barnes KC, David G, Weinberg A. An Open Label Study in Adults with Atopic Dermatitis to Assess Immune Response to Fluzone® Intradermal Vaccine. *J Allergy Clin Immunol* 2013;131(2):AB235.
150. Ye YM, Kim BE, Shin YS, Park HS, **Leung DYM**. Overexpression of Epidermal Filaggrin in Patients with Chronic Idiopathic Urticaria Correlates with Urticaria Severity. *J Allergy Clin Immunol* 2013;131(2):AB56.
151. Brauweiler AM, Goleva E, Oyoshi MK, Geha RS, **Leung DYM**. Th2 Cytokines and Filaggrin Deficiency Enhance Staphylococcus aureus Alpha-Toxin Induced Keratinocyte Death. *J Allergy Clin Immunol* 2013;131(2):AB234.
152. Kuo I-H, De Benedetto A, Yoshida T, **Leung DYM**, Beck LA. T Helper Cytokines (Th1, Th2 and Th17) Differentially regulate the epidermal tight junction barrier. *J Allergy Clin Immunol* 2013;131(2):AB103
153. Beck LA, Yoshida T, Bebedetto AD, Rhee S, Kui IH, Reese J, David G, Schneider L, Paller A, Hanifin J, Boguniewicz M, Barnes KC, **Leung DYM**. Biomarkers of disease severity and Th2 polarity are predictors of atopic dermatitis subjects who are colonized with *S. aureus*. *J Allergy Clin Immunol* 2013;131(2)Suppl:AB104.
154. Hauk PJ, Goleva E, Jackson LP, Harris JK, Olin JT, Brugman SM, Nichols DP, **Leung DYM**. Assessment of Bacterial Colonization in Airways of Children with Asthma and Chronic Cough By Culture and 16S rRNA Gene Sequencing. *J Allergy Clin Immunol* 2013;131(2):AB74.
155. Rafaels N, Huang L, **Leung DYM**, Beck LA, Vergara CI, Boguniewicz M, Hata T, Schneider L, Hanifin JM, Gallo R, Gao L, Mathias RA, Barnes KC. Exome Chip Genotyping Reveals Association with LAMA3 (laminin, alpha 3) Gene and Eczema Herpeticum in a Population of European Descent. *J Allergy Clin Immunol* 2013;131 (2):AB327.

156. Gao L, Huang L, Rafaels NM, Lewis R, Mathias RA, Beck LA, **Leung DY**, Barnes KC. Targeted Resequencing Identified Novel Variants in Candidate Genes Associated with Increased Risk of Atopic Dermatitis Complicated by Eczema Herpeticum. *J Allergy Clin Immunol* 2013;131(2):AB105.

2014

157. **Leung DYM**, Beck LA, Hanifin JM, Schneider LC, Paller A, David G, Monti K, Jepson B, Weinberg A. A Randomized, Multi-Center, NIH/NIAID Funded Study To Assess The Immunogenicity Of Fluzone® Intradermal and Intramuscular Vaccines In Atopic Dermatitis. *J Allergy Clin Immunol* 2014;133(2):AB72.
158. Kim BE, Kim GC, Kim HJ, **Leung DYM**. A Lipid Plant Extract From *Chamaecyparis Obtusa* Induces Filaggrin and Human Beta-Defensin -3. *J Allergy Clin Immunol* 2014;133(2):AB193.
159. Bin L, Edwards MG, Heiser R, Streib J, Richers B, **Leung DYM**. Identification of Novel Gene Signatures in patients with Atopic Dermatitis Complicated by Eczema Herpeticum. *J Allergy Clin Immunol* 2014;133(2):AB193.
160. Rafaels NM, Huang L, **Leung DYM**, Beck LA, Vergara CI, Boguniewicz M, Hata T, Schneider LC, Hanifin JM, Gallo R, Gao L, Ruczinski I, Mathias RA, Barnes KC. Exome Chip Genotyping Reveals Association with PDE4C and Atopic Dermatitis In Populations Of European and African Descent. *J Allergy Clin Immunol* 2014;133(2): AB72.
161. Yoshida T, Kuo IH, De Benedetto AD, **Leung DYM**, Beck LA. Th2 Cytokines Inhibit Toll-Like Receptor 2 Mediated Epidermal Barrier Repair. *J Allergy Clin Immunol* 2014;133(2):AB51.
162. Goleva E, Jackson LP, Shao B, Hu Z, Gill MA, Liu AH, **Leung DYM**. Associations Between The Expression Of Corticosteroid Regulated Genes By Peripheral Blood Mononuclear Cells (PBMCs) In Children from the NIH/NIAID Sponsored Asthma Phenotypes in the Inner City (APIC) Study. *J Allergy Clin Immunol* 2014;133(2): AB160.
163. Gao L, Heiser R, Rafaels NM, Huang L, Potee J, Mathias RA, Beck LA, Barnes KC, **Leung DYM**. Targeted Resequencing Identified Damaging Rare Variants in IFNGR1 Associated with Atopic Dermatitis Complicated by Eczema Herpeticum. *J Allergy Clin Immunol* 2014;133(2):AB401.
164. Beck LA, Yoshida T, Fridy S, Kuo IH, **Leung DYM**, Benedetto AD. Inhibition of Epidermal Tight Junction Function by Histamine is Mediated By H1 and H4 Receptors. *J Allergy Clin Immunol* 2014;133(2):AB165.

2015

165. Kim BE, Lee UH, Kim PS, **Leung DYM**. Evaluation of gene expression using a skin tape stripping method. *J Allergy Clin Immunol* 2015;135(2):AB261.
166. Sicherer SH, Wood RA, Jones SM, Perry TT, Vickery BP, Burks W, Liu AH, **Leung DYM**, Lindblad RW, Dawson P, Blackwell B, Sampson HA. Impact of clinical reactions on IgE concentrations to egg, milk and peanut in the observational cohort of the Consortium for Food Allergy Research (COFAR). *J Allergy Clin Immunol* 2015;135(2):AB23.
167. Lindblad RW, Dawson P, Wood RA, Henning A, Sicherer SH, Perry TT, Jones SM, Vickery BP, Burks AW, Liu AH, **Leung DYM**, Sampson HA. Safety of food allergy clinical trials: the consortium for food allergy research's 10 years of experience. *J Allergy Clin Immunol* 2015;135(2):AB234.
168. Bin L, Richers B, Streib JE, Edwards MG, **Leung DYM**. RNA sequencing identifies ANKRD1 as a novel anti-viral gene downregulated in atopic dermatitis complicated by eczema herpeticum. *J Allergy Clin Immunol* 2015;135(2):AB166.
169. Chiang D, Burks AW, Davidson W, Dawson P, Grishin A, Henning A, Jones SM, **Leung DYM**, Lindblad RW, Liu AH, Scurlock AM, Schirer SH, Vickery BP, Wood RA, Sampson HA, Berin C.

Phenotypic analysis of peanut-responsive T cells at baseline in subjects enrolled in CoFAR6, a randomized Placebo-controlled Epicutaneous Immunotherapy (EPIT) Trial for the treatment of peanut allergy. *J Allergy Clin Immunol* 2015;135(2):AB226.

170. RA, Chavan S, Iyer KR, Rafaels NM, Boorgula M, Potee J, Hanifin JM, Paller A, Schneider LC, Gallo RL, Guttman-Yassky E, Ong PY, Ruczinski I, Beaty TH, Gao L, Beck LA, **Leung DYM**, Barnes KC. Identifying genetic determinants of atopic dermatitis and bacterial colonization using whole genome sequencing. *J Allergy Clin Immunol* 2015;135(2):AB391.
171. Wright BL, Kulis MD, Orgel K, Burks AW, Dawson P, Jones SM, Wood RA, Sicherer SH, Lindblad RW, Stablein D, Liu AH, **Leung DYM**, Vickery BP, Sampson HA. Egg-specific IgA and IgA2 are associated with sustained unresponsiveness to egg following oral immunotherapy. *J Allergy Clin Immunol* 2015;135(2):AB38.
172. Chehade M, Jones SM, Pesek RD, Burks AW, Wood RA, **Leung DYM**, Lindblad RW, Dawson P, Abonia JP, Sherrill JD, Sampson HA, Rothenberg ME. Phenotypic characterization of the Eosinophilic Esophagitis (EoE) population in the Consortium of Food Allergy Research (CoFAR). *J Allergy Clin Immunol* 2015;135(2):AB39.
173. Nakatsuji T, Hata T, Two A, Chun K, Kotol P, Bouslimani A, Latif H, Lockhart A, Artis K, David G, Taylor P, Strieb J, Dorrestein P, Zengler K, **Leung DYM**, Gallo RL. The microbiome of patients with atopic dermatitis has deficient antimicrobial function. *J Inv Dermatol* 2015;135(2):AB193.
174. Merriman JA, Mueller EA, Beck LA, Paller AS, Hanifin JM, Ong PY, Schneider LS, **Leung DYM**, Guttman-Yassky E, David G, Lail A, Lockhart A, Schlievert PM. Prevalence of *Staphylococcus aureus* superantigen TSST-1 and disease severity vary among atopic dermatitis patients depending on race of infected host. *American Society of Microbiology* 2015;135(2):AB1583.

2016

175. Jones AL, Everett D, **Leung DYM**. *Staphylococcus aureus* colonization is associated with increased peanut allergy sensitization in children with atopic dermatitis. *J Allergy Clin Immunol* 2016;137(2):AB183.
176. Reddy MB, **Leung DY**, Spahn JD, Everett D, Knight V, Covar R. Variation of *In Vitro* Glucocorticoid Response in Asthma. *J Allergy Clin Immunol* 2016;137(2):AB215.
177. Indra AK, Li S, Villarreal M, Babineau DC, Philpot C, David G, Boguniewicz M, Hanifin JM, **Leung DYM**, Simpson EL, Beck LA. Skin lipid composition varies based on clinical subphenotypes in adult European American atopic dermatitis subjects. *J Allergy Clin Immunol* 2016;137(2):AB142.
178. Goleva E, Jackson LP, Shao B, Hu Z, Gill MA, Babineau DC, Liu AH, **Leung DYM** for Inner City Asthma Consortium. Expression of corticosteroid-regulated genes by peripheral mononuclear cells (PBMCs) in children from NIH/NIAID sponsored asthma phenotypes in the inner city (APIC) study after one year of guidelines-based therapy. *J Allergy Clin Immunol* 2016;137(2):AB189.
179. Mathias RA, Sameer Ch, Iyer K, Rafaels N, Boorgula M, Potee J, Hanifin JM, Paller AS, Schneider LC, Gallo R, Guttman-Yassky E, Ong P, Ruczinski I, Beaty TH, Gao L, Beck L, **Leung DYM**, Barnes KC. Filaggrin associated risk for atopic dermatitis is offset by protective missense variants in RPTN and LCE1B genes in the epidermal differentiation complex. *J Allergy Clin Immunol* 2016;137(2):AB182.
180. Reddy MB, **Leung DYM**, Spahn JD, Knight V, Covar R. Variation of selective glucocorticoid sensitivity in asthma. *J Allergy Clin Immunol* 2016;137(2):AB215.
181. Rafaels NM, Lockhart A, Babineau DC, Artis K, David GL, Yoshida T, Boguniewicz M, Ong PY, de

- Benedetto A, Hanifin JM, Simpson EL, Paller A, Guttman-Yassky E, Schneider LC, Mathias RA, Barnes KC, **Leung DYM**, Beck LA. Interaction between the R501X filaggrin mutation and disease severity associates with increased staphylococcus aureus colonization in European American subjects with atopic dermatitis. *J Allergy Clin Immunol* 2016;137(2):AB143.
182. Shi B, **Leung DYM**, Li H. The skin microbiome differs with age in atopic dermatitis. *J Allergy Clin Immunol* 2016;137(2):AB407.
183. Jones AL, Curran-Everett D, **Leung DYM**. Food allergy is associated with *Staphylococcus aureus* colonization in children with atopic dermatitis. *J Allergy Clin Immunol* 2016;137(2):AB183.
184. Ong PY, Babineau D, Lail A, Artis K, David G, Schneider L, Boguniewicz M, De Benedetto A, Hanifin J, Simpson E, Paller A, Guttman-Yassky E, Barnes K, **Leung DY**, Beck LA. Distinct features identified in adult atopic dermatitis subjects based on age of onset. *J Allergy Clin Immunol* 2016;137(2):AB183.
185. Yoshida T, Myers J, Ashton JM, De Benedetto A, Gill S, Philpot C, David G, **Leung DYM**, Beck LA. Novel gene signatures observed in the nonlesional skin from European America atopic dermatitis subjects who are colonized with *Staphylococcus aureus*. *J Allergy Clin Immunol* 2016;137(2):AB183.
186. Sicherer SH, Wood RA, Perry TT, Vickery BP, **Leung DYM**, Blackwell B, Dawson P, Burks AW, Lindblad RW, Sampson HA. Determinants of peanut allergy in an observational study (CoFAR2) of food allergy. *J Allergy Clin Immunol* 2016;137(2):AB152.
187. Mathias RA, Boorgula M, Chavan S, Iyer KR, Rafaels NM, Potee J, Hanifin JM, Paller AS, Schneider LC, Gallo RL, Guttman-Yassky E, Ong PY, Ruczinski I, Beaty TH, Gao L, Beck LA, **Leung DYM**, Barnes KC. Filaggrin associated risk for atopic dermatitis is offset by protective missense variants in Rptn and LCE1B genes in the epidermal differentiation complex. *J Allergy Clin Immunol* 2016;137(2):AB182.
188. Goleva E, Jackson LP, Shao B, Hu Z, Gill MA, Babineau DC, Liu AH, **Leung DYM**. Expression of corticosteroid regulated genes by Peripheral Blood Mononuclear Cells (PBMCs) in children from the NIH/NIAID sponsored Asthma Phenotypes in the Inner City (APIC) study after one year of guidelines-based therapy. *J Allergy Clin Immunol* 2016;137(2):AB189.
189. Kottyan LC, D'Mello RJ, Miller D, Maddox A, Stucke E, Rochman M, Patel Z, Rothenberg JA, Davis BP, Chehade M, Sampson HA, Wood RA, Pesek RD, Jones SM, Vickery BP, Burks AW, Fleischer DM, **Leung DYM**, Lindblad RW, Dawson P, Weirauch MT, Rothenberg MC. 11q13 is an allergic risk-locus that increases eoe risk and increases LRRC32 expression. *J Allergy Clin Immunol* 2016;137(2):AB279.
190. Jones AL, Everett D, **Leung DYM**. *Staphylococcus aureus* colonization is associated with increased peanut allergy sensitization in children with atopic dermatitis. *J Allergy Clin Immunol* 2016;137(2):AB183.

2017

191. Seibold MA, Goleva E, Dyjack N, Kim BE, Wesolowska-Andersen A, Rios C, **Leung DYM**. Minimally invasive skin tape strip RNA-seq identifies atopic dermatitis disease endotype. *J Allergy Clin Immunol* 2017;139(2):AB273.
192. Uong P, Curran-Everett D, **Leung DYM**. *Staphylococcus aureus* colonization is associated with increased atopy and inhaled steroid use in patients with atopic dermatitis and asthma. *J Allergy Clin Immunol* 2017;139(2):AB1.

193. Goleva E, Berdyshev E, Bronova I, Hall CF, Richers BN, **Leung DYM**. Th2 cytokines and IL-17 have distinct effects of sphingolipid metabolism in differentiated primary human keratinocytes. *J Allergy Clin Immunol* 2017;139(2):AB272.
194. Berdyshev E, Goleva E, Bronova I, Rios C, Dyjack N, Wesoloska-Andersen A, Seibold MA, **Leung DYM**. Lipid abnormalities associated with skin lesions in atopic dermatitis. *J Allergy Clin Immunol* 2017;139(2):AB87.
195. Mathias RA, Boorgula M, Chavan S, Willis-Owen S, Rafaels N, Hanifin JM, Paller AS, Schneider LC, Gallo R, Guttman-Yassky E, Ong P, Ruczinski I, Beaty TH, Gao L, Beck L, Moffatt M, Cookson W, **Leung DY**, Barnes KC. Whole genome sequencing identifies four novel variants in the epidermal differentiation complex that increase risk and severity for atopic dermatitis. *J Allergy Clin Immunol* 2017;139(2):AB85.
196. Watson C, Cohain A, Griffin R, Backmann N, Grishin A, Haczynska H, Dawson P, Henning A, Hoffman G, Hardik S, Wood RA, Burks AW, Jones SM, **Leung DYM**, Sicherer SH, Sampson HA, Sharp A, Schadt E, Bunyanavich S. Analysis of serial peripheral blood transcriptomes from peanut allergic children undergoing double-blind, placebo controlled oral food challenges reveals key drivers of the acute allergic response to peanut. *J Allergy Clin Immunol* 2017;139(2):AB189-AB189.
197. Suarez-Farinas M, Maria S, Gimenez G, Grishina G, Henning AK, Sicherer SH, Wood R, Jones SA, Burk W, **Leung DY**, Sampson HA. Peanut epitope-specific ige binding in the first 2 years of life can predict clinical peanut allergy. *Allergy* 2017;139(2):AB502.
198. Malley C, Boorgula M, Chavan S, Rafaels N, **Leung D**, Barnes K, Mathias R. Accuracy of whole genome sequencing and the Platypus varian caller in identifying genetic variation with the structurally challenging Epidermal Differentiation Complex. *The American Journal of Human Genetics* 2017.

2018

199. Cho CB, Everett DC, Ramirez-Gama M, **Leung DYM**. Food allergy without a history of atopic dermatitis is associated with increased antibiotic and gastroesophageal reflux medication use. *J Allergy Clin Immunol* 2018;141(2):AB152.
200. Berdyshev E, Goleva E, Bronova I, Jung J, Taylor P, Richers B, Hall C, Jeong M, Zhang T, **Leung DYM**. IL-13 mediates skin lipid abnormalities in atopic dermatitis. *J Allergy Clin Immunol* 2018;141(2):AB188.
201. Bin L, Li X, Richers B, Streib JE, Hu JW, Taylor P, **Leung DYM**. Ankyrin repeat domain 1 regulates innate immune responses against herpes simplex virus 1: A potential role in eczema herpeticum. *J Allergy Clin Immunol* 2018;141(6):2085-2093.e1
202. Tham EH, Dyjack N, Kim BE, Rios C, Seibold MA, **Leung DYM**, Goleva E. Olfactory receptors expression in the skin of atopic dermatitis patients. *J Allergy Clin Immunol* 2018;141(2):AB135.
203. Yoshida T, Grier A, Gill A, Corbett A, Cahill MP, Lockhart A, Simpson EL, Boguniewicz M, Hanifin JM, de Benedetto A, David GL, **Leung DYM**, Schlievert PM, Gill SR, Beck LA. *Staphylococcus aureus*-culture positivity observed in adults with atopic dermatitis is most indicative of an increased absolute and relative abundance of *S. aureus* and not reduced biodiversity. *J Allergy Clin Immunol* 2018;141(2):AB129.
204. Goleva E, Bronova I, Jung J, Seibold M, **Leung DYM**, Berdyshev E. Identification of lysophosphatidylcholines as skin biomarkers associated with atopic dermatitis. ASMS Conference

on Mass Spectrometry and Allied Topics 2018.

205. Sicherer SH, Wood RA, Perry TT, Jones SM, **Leung DYM**, Henning AK, Dawson P, Burks AW, Lindblad RW, Sampson HA. Risk factors associated with peanut allergy in a high risk infant cohort (CoFAR). *J Allergy Clin Immunol* 2018;141(2):AB245.
206. Suprun M, Suarez-Farinas M, Gimenez G, Grishina G, Jennings A, Sicherer SH, Wood R, Jones SA, Burks AW, **Leung DYM**, Sampson HA. Peanut epitope-specific IgE binding can predict clinical peanut allergy. *Allergy* 2018.

2019

207. **Leung DYM**, Calatroni A, Zaramela LS, Dyjack NT, Brar K, LeBeau P, David G, Johnson K, Leung S, Kreimer S, Talbot CC, Cole RN, Ramirez-Gama M, Liang B, Rio C, Montgomery MT, Jung J, Bronova I, Seibold MA, Zengler K, Berdyshev E, Goleva E, on behalf of the NIH/NIAID funded Atopic Dermatitis Research Network. A multi-omics evaluation of the non-lesional skin surface identifies atopic dermatitis with food allergy (AD FA+) as a unique endotype. *J Allergy Clin Immunol* 2019;143(2):AB125.
208. Berdyshev E, Goleva E, Jung J, Bronova I, Norquest KA, Richers BN, **Leung DYM**, on behalf of the NIH/NIAID funded Atopic Dermatitis Research Network. Skin lipid abnormalities in patients with a history of eczema herpeticum indicate the involvement of the Sphingosine-1-phosphate signaling system in HSV viral replication. *J Allergy Clin Immunol* 2019;143(2):AB123.
209. Dyjack N, Goleva E, Bin L, Urbanek C, Montgomery M, Taylor P, Richers BN, Norquest KA, **Leung DYM**, Seibold MA. Expression profiling of atopic dermatitis patients with a history of recurrent eczema herpeticum reveals dysregulation of type 2-inflammation and barrier-related pathways in uninvolved skin. *J Allergy Clin Immunol* 2019;143(2):AB124.
210. Kim EH, Jones SM, Burks AW, Wood RA, Sicherer SH, **Leung DYM**, Henning AK, Lindblad RW, Dawson P, Keet C, Scurlock AM, Sampson HA, for the Consortium of Food Allergy Research (CoFAR). *J Allergy Clin Immunol* 2019;143(2):AB82.
211. Zaramela LS, Belgini D, Ramirez-Gama M, Johnson K, Streib J, **Leung DYM**, Zengler K, on behalf of the NIH/NIAID funded Atopic Dermatitis Research Network. Deciphering the microbiome and virome composition of patients with atopic dermatitis and eczema herpeticum (ADEH+). *J Allergy Clin Immunol* 2019;143(2):AB302.
212. Sampson HA, **Leung DYM**, Jones SM, Sicherer SH, Burks AW, Henning A, Lindblad RW, Dawson P, Perry TT, Kim E, Wood RA. Egg oral immunotherapy (OIT) induces more rapid desensitization and sustained unresponsiveness (OSU) in egg-allergic, baked egg tolerant children than the addition of daily baked-egg products. *J Allergy Clin Immunol* 2019;143(2):AB255.
213. Goleva E, Tham EH, Jung J, Kim BE, Norquest KA, Bronoff AS, Bronova I, **Leung DYM**, Berdyshev E. IL-17A and IL-4/IL-13 exert distinct changes in skin lipids. *J Allergy Clin Immunol* 2019;143(2):AB302.
214. Hoffman BC, Ramirez-Gama M, Everett DC, Garcia SL, Goleva E, **Leung DYM**, Cho CB. A comparison of food allergic patients with and without atopic dermatitis. *J Allergy Clin Immunol* 2019;143(2):AB269.
215. Yoshida T, Cahill MP, Fung AR, Rho, Simpson E, Boguniewicz M, Hanifin J, De Benedetto A, David G, Schlievert P, **Leung DYM**, Beck LA. Nonlesional atopic dermatitis skin shows alterations in Langerhans cells in close proximity to Tight Junction Fragmentation. *J Allergy Clin Immunol* 2019;143(2):AB303.

216. Kim E, Jones S, Burks AW, Wood R, Sicherer SH, **Leung DYM**, Henning A, Keet C, Sampson H, Lindblad R, Dawson P, Scurlock AM, Plaut M. A 5-year summary of real-life dietary egg consumption after completion of a 4-year egg OIT protocol. *J Allergy Clin Immunol* 2019;143(2):AB82.
217. Jones SM, Burks AW, Sicherer SH, **Leung DYM**, Henning AK, Dawson P, Lindblad RW, Scurlock AM, Kim E, Cho CB, Berin C, Davidson WF, Sampson HA, Wood RA. Impact of Epicutaneous Immunotherapy (EPIT) for the treatment of peanut allergy in children and young adults: Follow-up from the consortium for Food Allergy Research (CoFAR) study. EAACI 2019.

2020

218. Griffiths JM, Sridhar S, Gavala M, Pham T, Ohne Y, Reyes M, Pilataxi F, Kagiampakis I, Parnes JR, Komjathy S, Bronchick C, **Leung DY**, Goleva L. Atopic dermatitis biomarker analysis points to elevation of TSLP and IL-33 signalling and suggests a role for type 2 innate lymphoid cells. *J Allergy Clin Immunol* 2020;145(2):AB193.
219. Brar KK, Calatroni A, Pamplombi S, Berdyshev E, Goleva E, **Leung DYM**. Hyperlinear palms as a phenotypic marker of food allergy. *J Allergy Clin Immunol* 2020;145(2):AB193.
220. Suprum M, Grishina G, Witmer M, Henning A, Dawson P, Sicherer S, Wood R, Jones S, Burks W, **Leung DY**, Suarez-Farinas M, Sampson HA. Natural History of Epitope-Specific IgD, IgG1, IgA, IgG4, and IgE development in peanut allergic children. *J Allergy Clin Immunol* 2020;145(2):AB89.
221. Hui JW, Goleva E, Everett D, **Leung DY**. The Atopic march and *Staphylococcus Aureus* colonization are associated with fall birth. *J Allergy Clin Immunol* 2020;145(2):AB189.
222. Pham T, Kearley J, Ly J, Parnes JR, **Leung DY**, Goleva E, Griffiths JM. Development of a highly sensitive assay to Quantitate Circulating Thymic Stromal Lymphopoietin (TSLP) levels in blood. *J Allergy Clin Immunol* 2020;145(2):AB30.
223. Manuel J, Castillo L, Daya M, Boorgula MP, Mathias RA, Barnes KC, Lai P, Petty C, Weller E, Harb H, Chatila T, **Leung DY**, Phipatanakul W, Geha RS. The IL-4R α R576 polymorphism is associated with increased AD severity and promotes allergic skin inflammation. *J Allergy Clin Immunol* 2020;145(2):AB239.
224. Kim BE, Goleva E, Kim J, Vang KA, Hall CF, Ahn K, **Leung DY**. Particulate matter inhibits filaggrin through aryl hydrocarbon receptor, and shows synergism with Th2 cytokines. *J Allergy Clin Immunol* 2020;145(2):AB194.
225. Berdyshev E, Bronova I, Bronoff AS, Jung J, Nadeau K, Goleva E, **Leung DYM**. Applicability of skin tape stripping methodology in conjunction with LC-MS/MS to detect topical emollients and drug used in atopic dermatitis. *J Allergy Clin Immunol* 2020; 145(2):AB70.
226. Bin L, Malley C, Taylor P, Boorgula M, Chavan S, Mathias M, Rafaels N, Ruczinski I, Richers B, Barnes K, **Leung DYM**, Mathias R. Whole genome sequencing analyses identify SIDT2 loss-of-function mutations in patients with eczema herpeticum. *J Allergy Clin Immunol* 2020;145(2):AB189.
227. **Leung DY**, Goleva E, Hoffman B, Bronoff AS, Jung J, Garcia S, Ramirez-Gama M, Alkotob S, Nadeau K, Cho C, Bronova I, Berdyshev E. Skin barrier dysfunction in patients with peanut allergy without eczema. *J Allergy Clin Immunol* 2020;145(2):AB46.
228. Sindher SB, Berdyshev E, Shojinaga M, Alkotob S, Alonzi SP, Varadharajulu S, Chandra S, Chinthrajah S, Brough HA, Chan SM, Lack G, **Leung DY**, Nadeau KC. Skin TEWL results show significant improvements with Trilipid emollient compared to controls in infants and young children.

J Allergy Clin Immunol 2020;145(2):AB240.

229. Bronova I, Goleva E, **Leung DYM**, Berdyshev E. Superficial Stratum Corneum Layers Separate Atopic Dermatitis Subjects From Healthy Controls. J Allergy Clin Immunol 2020;145(2):AB9.
230. Lyubchenko T, Collins H, Vang K, **Leung DYM**. Th2 cytokines (IL-4/IL-13) and SMOC1 regulate keratinocytes sensitivity to microenvironmental Ca²⁺ changes that initiate differentiation signals leading to skin barrier alterations. J Allergy Clin Immunol 2020;145(2):AB196.
231. Goleva E, Calatroni A, LeBeau P, Berdyshev E, Kreimer S, Cole R, **Leung DYM**. Skin Tape Strip Proteomics Identifies Novel Pathways in Children with Atopic Dermatitis and Food Allergy. J Allergy Clin Immunol 2020;145(2):AB195.
232. Kim BE, Goleva E, Kim J, Vang K, Hall C, Ahn K, **Leung DYM**. Particulate Matter Inhibits Filaggrin through Aryl Hydrocarbon Receptor, and Shows Synergism with Th2 Cytokines. J Allergy Clin Immunol 2020;145(2):AB194.
233. Griffiths J, Sridhar S, Gavala M, Pham TH, Ohne Y, De Los Reyes M, Pilataxi F, Kagiampakis I, Parnes J, Komjathy S, Bronchick C, **Leung DYM**, Goleva E. Atopic Dermatitis Biomarker Analysis Points to Elevation of TSLP and IL-33 Signaling and Suggests a Role for Type 2 Innate Lymphoid Cells. J Allergy Clin Immunol 2020;145(2):AB193.

2021

234. Hui JW, Kim BE, Lyubchenko T, Goleva E, **Leung DYM**. Temperature changes contribute to skin barrier dysfunction: potential implications for atopic dermatitis and food allergy. AAAAI 2021. Poster #092.
235. Wang EA, Goleva E, Vang KA, Kern J, LaCouture M, Lyubchenko T, **Leung DYM**. Immune checkpoint inhibitors alter cytokine production by human PBMC: implications for increased allergic reactions in subjects on immune checkpoint inhibitor therapy. AAAAI 2021. Poster #032.
236. Berdyshev E, Goleva E, Bronova I, Taylor PA, Bronoff AS, Hanifin JM, Slifka M, **Leung DYM**. Lipid profiles in eczema herpeticum and eczema vaccinatum reflect changes the predispose to disseminated viral infection. AAAAI 2021. Poster #091.

2022

237. Ahn K, Kim J, Kim BE, Berdyshev E, Bronova I, Bronoff AS, Hall CF, Hui-Beckman, **Leung DYM**, Goleva E. Staphylococcus aureus-induced cytokines cause aberrant lipid compositions and skin barrier dysfunction in children with atopic dermatitis. AAAAI 2022. Poster #011.
238. Kim BE, Hui-Beckman J, Hall CF, Lyubchenko T, Goleva E, **Leung DYM**. Transient Receptor Potential Cation Channel Subfamily V Member 1 (TRPV1) Plays a Major Role in Low Temperature-Mediated Skin Barrier Dysfunction: Potential Implications for Atopic Dermatitis and Food Allergy. AAAAI 2022. Poster #012.
239. Wang EA, Lyubchenko T, Goleva E, Kraehenbuehl L, Ketosugbo K, Moy A, Hellmann M, Kern J, LaCouture M, **Leung DYM**. Checkpoint inhibition induced pruritus during cancer therapy is associated with skin IL-31 and CCL22 expression. AAAAI 2022. Poster #520.
240. Forman JL, Yoshida T, Lillis J, Gill A, Corbett A, Cahill MP, Lockhart A, Simpson E, Boguniewicz, Hanifin J, De Benedetto A, David G, **Leung DYM**, Schlievert P, Gill SR, Beck LA. Are skin microbes with lantibiotic biosynthesis genes reduced in atopic dermatitis subjects who are culture positive for Staphylococcus aureus? AAAAI 2022. Poster #693.

241. Braskett M, Goleva E, Bronova I, Nagendra G, Mikako W, Cynamon H, Bhardwaj V, Durazo-Arvizu, Ong P, **Leung DYM**, Berdyshev E. Lipidomic Analysis of Epithelium Reveals Unique Sphingolipid Profile in Eosinophilic Esophagitis. AAAAI 2022. Poster #473.
242. Berdyshev E, Goleva E, Bissonnette R, Bronova I, Bronoff AS, Richers BN, Garcia S, Ramirez-Gama M, Taylor P, Bologna G, Agueusop I, Boguniewicz M, Harel S, Levit NA, Rossi AB, Zhang A, **Leung DYM**. Dupilumab treatment significantly improves skin barrier function in adult and adolescent patients with moderate to severe atopic dermatitis. AAAAI 2022. Poster #029.
243. Beck LA, Boguniewicz M, Hata T, Fuxench Z, Simpson E, De Benedetto A, Ho J, Ong P, Yoshida T, Gallo R, Brar K, Schlievert P, Villarreal M, Lussier S, David G, Rudman Spergel AK, **Leung DYM**. Effect of Dupilumab on the Host-Microbe Interface in Atopic Dermatitis. AAAAI 2022. Poster #451.
244. Berdyshev E, Simpson E, Bronova I, Pavel A, Soong W, Antaya RJ, Imafuku S, Røpke MA, Jiang L, Guttman-Yassky E, **Leung DYM**. Tralokinumab treatment modifies stratum corneum lipid composition in skin of adolescents with atopic dermatitis. American Academy of Dermatology 2022.
245. Huffaker MF, Kanchan K, Bahnson HT, Ruczinski I, Shanker G, **Leung DYM**, Baloh CH, Du Toit G, Lack G, Nepom GT, Mathias RA. Multiple FLG variants drive eczema severity in the LEAP study participants. AAAAI 2022.
246. Suprun M, Grishina G, Sicherer S, Wood R, Jones S, Burks W, **Leung DYM**, Getts R, Suarez-Farinas M, Sampson HA. A combination of epitope and protein specific IgG and IgE antibodies are predictive of baked egg reactive phenotype. J Allergy Clinical Immunol. 2022.
247. Bin L, Richers, **Leung DYM**. Atopic dermatitis patients have increased numbers of FcεR1α and IgE double positive monocytes and plasmacytoid dendritic cells in peripheral blood mononuclear cells. Immunology 2022. Poster #: 2221. Abstract 49.24.
248. Goleva E, Berdyshev E, Kreimer S, Lyubchenko T, Bissonnette R, Agueusop I, Levit NA, Rossi AB, Zhang A, **Leung DYM**. Dupilumab inhibits expression of fibronectin and fibrinogen, skin proteins that regulate staphylococcus aureus adhesion to atopic dermatitis skin. Paper presented at: 12th Georg RAJKA International Symposium on Atopic Dermatitis – Hybrid. October 17-19, 2022; Montreal, Quebec, Canada.
249. Berdyshev E, Goleva E, Bissonnette R, Ramirez-Gama M, Taylor P, Bologna G, Boguniewicz M, Harel S, Levit NA, Rossi AB, Zhang A, **Leung DYM**. Dupilumab treatment significantly improves skin barrier function in adult and adolescent patients with moderate to severe atopic dermatitis. Paper presented at: 4th Annual Conference of Revolutionizing Atopic Dermatitis; April 9-11, 2022; Baltimore, MD, USA.
250. **Leung DYM**, Bissonnette R, Agueusop I, Levit NA, Rossi AB, Zhang A. Dupilumab treatment restores skin barrier function in adults and adolescents with moderate to severe atopic dermatitis. Paper presented at: 2nd Dermatology Refresher Symposium for NPs and PAs; April 8 - 10, 2022; Grand Hyatt San Antonio Riverwalk in San Antonio, TX, USA.
251. Bissonnette R, **Leung DYM**, Bologna G, Levit NA, Rossi AB, Zhang A. Dupilumab treatment restores skin barrier function in adults and adolescents with moderate to severe atopic dermatitis. J Am Acad Dermatol. 2022;87(3, Suppl): AB160. doi: <https://doi.org/10.1016/j.jaad.2022.06.670>.
252. Berdyshev E, Goleva E, Bissonnette R, Bronova I, Bronoff AS, Richers BN, Garcia S, Ramirez-Gama M, Taylor P, Praestgaard A, Agueusop I, Boguniewicz M, Harel S, Levit NA, Rossi AB, Zhang A, **Leung DYM**. Dupilumab treatment significantly improves skin barrier function in adult and adolescent patients with moderate to severe atopic dermatitis. J Allergy Clin Immunol. 2022;149(2, Suppl): AB10. doi: <https://doi.org/10.1016/j.jaci.2021.12.073>.

2023

253. Nevid, MZ, **Leung DYM**, et al. Association of Atopic Dermatitis with Proximity to Major Roads. AAAAI 2023.
254. Hui-Beckman, **Leung DYM**, et al. Temperature Fluctuation Causes Skin Barrier Dysfunction. AAAAI 2023.
255. **Leung DYM**, Bissonnette R, Berdyshev E, Kreimer S, Lyubchenko T, Bafna S, Richers BN, Garcia S, Ramirez-Gama M, Hall C, Xiao O, Taylor PA, Boguniewicz M, Levit NA, Agueusop I, Zhang A, Goleva E. Dupilumab inhibits vascular leakage of blood proteins into atopic dermatitis skin. AAAAI 2023.
256. Goleva E, Berdyshev E, Kreimer S, Lyubchenko T, Hall S, Richers BN, Xiao O, Bafna S, Agueusop I, Bissonnette R, Levit NA, Zhang A, **Leung DYM**. Longitudinal skin tape strip global proteomic assessment reveals normalization of epidermal development in atopic dermatitis patients treated with dupilumab. AAAAI 2023.
257. Berdyshev E, Kim J, Goleva E, Bronova I, Bronoff AS, Lyubchenko T, Kreimer S, Van Eyk J, Kim BE, **Leung DYM**, Ahn K. Stratum corneum lipid biomarkers at two months of age predict future onset of atopic dermatitis. AAAAI 2023.
258. Goleva E, **Leung DYM**, et al. Dupilumab Normalizes Epidermal Hyperplasia Protein Expression and Improves Clinical Outcome in Patients with Moderate-to-Severe Atopic Dermatitis. 81st Annual Meeting of the American Academy of Dermatology (AAD 2023), New Orleans.
259. Kraehenbuehl L, Frame J, Taur Y, Chekalil S, Liu C, Goleva E, Berdyshev E, Kern JA, **Leung DYM**, Wolchok JD, Lacouture ME, Merghoub T. Characteristics of skin microbiome in immune related cutaneous adverse events. American Association for Cancer Research (AACR) Annual Meeting, Orlando FL. 2023. 23-A-4635-AACR.
260. Goleva E, Berdyshev E, Kreimer S, Lyubchenko T, Bafna S, Agueusop I, Bissonnette R, Levit NA, Zhang A, **Leung DYM**. Dupilumab normalizes epidermal hyperplasia protein expression and improves clinical outcome in patients with moderate to severe atopic dermatitis. Paper presented at: American Academy of Dermatology; March 17-21, 2023; New Orleans, LA, USA. To be published in *JAAD* supplement in Fall 2023.
261. **Leung DYM**, Bissonnette R, Berdyshev E, Kreimer S, Lyubchenko T, Bafna S, Boguniewicz M, Levit NA, Agueusop I, Zhang A, Goleva E. Dupilumab inhibits vascular leakage of blood proteins into the skin and improves clinical outcome of patients with moderate to severe atopic dermatitis. Paper presented at: American Academy of Dermatology; March 17-21, 2023; New Orleans, LA, USA. To be published in *JAAD* supplement in Fall 2023.
262. Goleva E, Berdyshev E, Kreimer S, Lyubchenko T, Hall C, Richers B, Xiao O, Bafna S, Agueusop I, Bissonnette R, Levit NA, Zhang A, **Leung D**. Longitudinal skin tape strip global proteomic assessment reveals normalization of epidermal development in atopic dermatitis patients treated with dupilumab. *J Allergy Clin Immunol.* 2023;151(2, Suppl):AB147. doi: <https://doi.org/10.1016/j.jaci.2022.12.459>.
263. **Leung D**, Bissonnette R, Berdyshev E, Kreimer S, Lyubchenko T, Bafna S, Richers B, Garcia S, Ramirez-Gama M, Hall C, Xiao O, Taylor P, Boguniewicz M, Levit NA, Agueusop I, Zhang A, Goleva E. Dupilumab inhibits vascular leakage of blood proteins into atopic dermatitis skin. *J Allergy Clin Immunol.* 2023;151(2, Suppl):AB147. doi: <https://doi.org/10.1016/j.jaci.2022.12.460>.
264. Goleva E, Berdyshev E, Kreimer S, Lyubchenko T, Bissonnette R, Agueusop I, Levit NA, Rossi AB,

Zhang A, **Leung DYM**. Dupilumab inhibits expression of fibronectin and fibrinogen, skin proteins that regulate staphylococcus aureus adhesion to atopic dermatitis skin. Paper presented at: 19th Annual Meeting of Maui Derm for Dermatologists – Hybrid. January 23-27, 2023; Maui, HI, USA.

265. Goleva E, Berdyshev E, Kreimer S, Lyubchenko T, Bissonnette R, Agueusop I, Levit NA, Rossi AB, Zhang A, **Leung DYM**. Dupilumab inhibits expression of fibronectin and fibrinogen, skin proteins that regulate staphylococcus aureus adhesion to atopic dermatitis skin. Paper presented at: Winter Clinical Dermatology Conference; January 13-18, 2023; Kohala Coast, HI, USA

2024

266. Bronova I, Berdyshev E, Goleva E, Danby S, Bronoff AS, Richers B, Garcia S, Gama MR, Taylor P, Zahn J, Agueusop I, Bafna S, Boguniewicz M, Ong P, Zhang A, Cork M, **Leung DYM**. Dupilumab Improves Skin Lipid Barrier in Pediatric Patients with Moderate-to-Severe Atopic Dermatitis. Journal of Allergy and Clinical Immunology. 2024 Feb 1;153(2): AB5.

267. Kosmach S, Lanser B, Santos C, **Leung DYM**. Severe Refractory Anaphylaxis to Food: Analyzing a Pediatric Food Challenge Cohort. Journal of Allergy and Clinical Immunology. 2024 Feb 1;153(2):AB81.

268. Kenney HM, Yoshida T, Berdyshev E, Calatroni A, Gill S, Simpson E, Lussier S, Boguniewicz M, Hata T, Fuxench Z, De Benedetto A, Ong P, Ko J, Davidson W, David G, Schlievert P, **Leung DYM**, Beck L. Cutaneous Ceramide Synthase 1 (CERS1) Gene Expression is a Biomarker of Staphylococcus aureus Abundance and Severity of Atopic Dermatitis. Journal of Allergy and Clinical Immunology. 2024 Feb 1;153(2): AB68.

269. Wood R, Togias A, Sicherer S, Shreffler W, Kim E, Jones S, **Leung DYM**, Vickery B, Bird JA, Spergel J, Iqbal A, Olsson J, Ligueros-saylan M, Uddin A, Calatroni A, Huckabee C, Rogers N, Yovetich N, Dantzer J, Mudd K, Wang J, Groetch M, Pyle D, Keet C, Kulis M, Sindher S, Long A, Scurlock A, Lanser B, Lee T, Parrish C, Brown-whitehorn T, Spergel AR, Veri M, Hamrah S, Brittain E, Poyser J, Wheatley LR, Chinthrajah S. Omalizumab for the Treatment of Multiple Food Allergy (OUtMATCH). Journal of Allergy and Clinical Immunology. 2024 Feb 1;153(2): AB378.

270. Goleva E, Lacouture M, Lyubchenko T, Gu S, Xiao O, Kraehenbuehl L, Berdyshev E, Ketosugbo K, Moy A, Rotemberg V, Weight R, Shah N, Kern J, **Leung DYM**. Checkpoint inhibitor-related skin reactions in cancer patients are characterized by unique rash specific immune responses. J Allergy Clin Immunol. 2024 Feb 1;153(2):AB227.

271. Rabinovitch N, **Leung DYM**, Gern J, Galvin M, Simpson P, Eggleston M, Levy H. Small airway reversibility, TNF alpha levels and female gender are associated with cardiopulmonary exercising testing abnormalities in children with post-covid respiratory symptoms. J Allergy Clin Immunol. 2024 Feb 1;153(2):AB245.

272. Aceves S, Goleva E, Chaiboonma K, Bronova I, Lyubchenko K, **Leung DYM**, Berdyshev E. Patients with eosinophilic esophagitis, but no eczema, have unique deficiency in skin barrier lipids with long chain sphingoid bases. J Allergy Clin Immunol. 2024 Feb 1;153(2):AB248.

273. Berdyshev E, Kim J, Goleva E, Bronova I, Bronoff AS, Kim BE, **Leung DYM**, Ahn K. Future onset of food allergy without eczema early in life has unique stratum corneum lipid signature. J Allergy Clin Immunol. 2024 Feb 1;153(2):AB249.

274. Braskett M, Goleva E, Bronova I, Nagendra G, Durazo-Arvizu R, Shillingford N, Cynamon H, Warren M, Bhardwaj V, Ong P, **Leung DYM**. Lipidomic Analysis of Epithelium Reveals Unique Sphingolipid Profile in Eosinophilic Esophagitis with Potential Implications for Esophageal Barrier Dysfunction. J Allergy Clin Immunol. 2024 Feb 1;153(2):AB248.

275. Hui-Beckman J, Kim B, **Leung DYM**, Goleva E, Lyubchenko T. Temperature Fluctuation Causes Deficiency of Epidermal Barrier Proteins and Long-Term Skin Barrier Dysfunction. *J Allergy Clin Immunol*. 2024 Feb 1;153(2):AB255.
276. Yu H, Goleva E, Lyubchenko T, Xiao O, Shah NJ, Kraehenbuehl L, Ketosugbo K, Maier T, Moy A, Berdyshev E, Weight RM, Kern JA, Lacouture ME, **Leung DYM**. Biomarker modeling identifies unique cytokine cluster in cancer patients with checkpoint inhibitor induced cutaneous adverse events. Immuno-Oncology Translational Network (IOTN) Capstone Meeting, Bethesda, MD, May 14-15, 2024 (oral presentation and poster).
277. Lyubchenko T, Goleva E, Xiao O, Voorhees M, Weight RW, Shah N, Kern JA, Lacouture ME, **Leung DYM**. T cell receptor signaling endotypes associated with immune related cutaneous adverse events in cancer patients treated with checkpoint inhibitors. Immuno-Oncology Translational Network IOTN Capstone Meeting, Bethesda, MD, May 14-15, 2024 (oral presentation and poster).
278. Cork M, Berdyshev E, Goleva E, Danby SG, Bronova I, Zahn J, Agueusop I, Bafna S, Ong P, Zhang A, **Leung DYM**. Dupilumab Provides Sustained Normalization of Skin Barrier Function in Children with moderate-to-Severe Atopic Dermatitis. accepted and will be presented as an encore poster presentation at the 49th Annual Society for Pediatric Dermatology (SPD); Toronto, Canada; July 11–14, 2024.
279. Cork MJ, Berdyshev E, Ong PY, Danby SG, Ramirez-Gama M, Garcia S, Taylor P, Zahn J, Bolongna G, Praestgaard A, Zhang A, **Leung DYM**. Dupilumab Treatment Provides Sustained Improvement in Skin Barrier Composition and Function in Patients Aged 6 to 11 Years With Moderate-to-Severe Atopic Dermatitis. Target congress: 14th Georg Rajka Symposium of the International Society of Atopic Dermatitis (ISAD24) – October 24–26, 2024 (Doha, Qatar)
280. Cork MJ, Ong P, Danby SG, Ramirez-Gama M, Garcia S, Taylor PA, Byers RA, Matcher ST, Katibi OS, Brown K, Andrew PV, Pinnock A, Poyner A, Johnson L, Gormley S, Zahn J, Bologna G, Praestgaard A, Zhang A, **Leung DYM**. Dupilumab treatment restores skin barrier in children aged 6 to 11 years with moderate-to-severe atopic dermatitis. at the 33rd European Academy of Dermatology and Venereology Congress (EADV); Amsterdam, Netherlands; September 25–28, 2024.
281. Kraehenbuehl L, Frame J, Taur Y, Chekalil S, Ahmed A, Liu C, Goleva E, Berdyshev E, Kern JA, **Leung DYM**, Wolchok JD, Lacouture ME, Merghoub T. The skin microbiome in immune-related cutaneous adverse events (ircAE) is distinct from patients without ircAE. SITC 2024, Houston, TX, Nov 6-10, 2024 (oral presentation).

2025

282. Goleva E, Berdyshev E, Kreimer S, Haines JA, D'Allesandro A, Bronova I, Lyubchenko T, Bafna S, Agueusop I, Gloaguen E, Bissonnette R, Zhang A, **Leung DYM**. The utility of skin tape strip metabolites for the assessment of skin pathobiology and response to dupilumab in atopic dermatitis. AAAAI 2025.
283. Chang N, Berdyshev E, Milanzi E, Lodge CJ, Lopez DJ, Bronova I, Koplin JJ, Peters RL, Tang MLK, Dharmage SC, Abramson MJ, Hui J, Varigos G, Perrett K, Sasi A, Perret JL, Su J, Robinson PD, **Leung DYM**, Lowe AJ. Early Life Protein-Bound Skin Ceramides May Predict the Development of Atopic Dermatitis. AAAAI 2025.
284. **Leung DYM**, Weight R, Kern J, Xio O, Lyubchenki T, Bronoff AS, Berdyshev E, Goleva E. Immune and skin barrier changes at the time of chckpoint inhibitor therapy initiation predict the develptment of immune realted cuntaneous adverse events in cancer patients. AAAAI 2025

285.Hui-Beckman JW, Goleva E, Bronoff AS, Berdyshev E, Xiao O, Lyubchenko T, **Leung DYM**. Early life cheek skin barrier changes are associated with atopic dermatitis development. AAAAI 2025.