

CURRICULUM VITAE
Donald YM Leung, MD, PhD
(Abbreviated)

I. BIOGRAPHICAL AND PERSONAL INFORMATION

Date of Birth: October 1, 1949
Place of Birth: New York, New York
Citizenship: United States

Office Address: Department of Pediatrics
National Jewish Health
1400 Jackson Street
Denver, CO 80206

II. ACADEMIC HISTORY

A. COLLEGES AND UNIVERSITIES ATTENDED

College	1970	BA	Johns Hopkins University Baltimore, Maryland
Graduate School	1975	PhD	University of Chicago Chicago, Illinois
Medical School	1977	MD	University of Chicago Chicago, Illinois

B. POSTDOCTORAL TRAINING

1977-78	Intern in Pediatrics Children's Hospital Medical Center Boston, Massachusetts
1978-79	Resident in Pediatrics Children's Hospital Medical Center Boston, Massachusetts
1977-79	Clinical Fellow in Pediatrics Harvard Medical School Boston, Massachusetts
1979-81	Fellow in Allergy-Immunology Children's Hospital Medical Center Boston, Massachusetts

C. LICENSURE AND CERTIFICATION

1980	Massachusetts (License #45189)
1982	American Board of Pediatrics (#28313)
1983	American Board of Allergy-Immunology (#2420)

1990 Colorado State Board of Medical Examiners (License #29944)
 1991 Diagnostic Laboratory Immunology (American Board of Allergy and Immunology (Certificate #0127)

D. ACADEMIC AND HOSPITAL APPOINTMENTS

1981-83 Instructor, Department of Pediatrics, Harvard Medical School, Boston, MA
 1983-87 Assistant Professor, Department of Pediatrics, Harvard Medical School, Boston, MA
 1983-87 Associate, Department of Medicine, Children's Hospital Medical Center, Boston, MA
 1983-89 Director of Diagnostic Allergy-Clinical Immunology Laboratory; Children's Hospital, Boston, MA
 1987-89 Associate Clinical Director of Combined Immunology Program, Children's Hospital, Boston, MA
 1987-89 Director of Allergy Program, Children's Hospital, Boston, MA
 1987-89 Senior Associate, Department of Medicine, The Children's Hospital, Boston, MA
 1987-89 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
 1990-91 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

III. PATENTS AND INVENTIONS

1993 I γ E-, 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 Serial No. 13/538,676 - filed 06/29/12). Inventors: Savage PB, Leung DYM.
- 2013 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)
- 2018 Methods to Identify and Treat Subjects Having Corticosteroid-resistant Asthma (U. S. Patent Application Number 10,054,589)

IV. AWARDS AND HONORS

- 1970- Phi Beta Kappa
- 1970-77 NIH Medical Scientist Training Program
- 1976 Young Researcher of the Year (Illinois)
- 1979-81 NIH National Research Service Award
- 1983-85 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 AFCEC 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 Board of Directors, American Board of Allergy and Immunology
- 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 *The Role of Skin Barrier Abnormalities in Atopic Dermatitis*
- 2015 The National Jewish Health Kauvar Presidential Award
- 2015 Honorary Professor, The 2nd Affiliated Hospital of Guangzhou Medical University; Guangzhou, China
- 2016 Honorary Professor, Xiangya School of Medicine, Central South University; Changsha, China
- 2016 12th 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

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-present	Director, Food Allergy Research Education (FARE) Center of Excellence, National Jewish Health
2016-present	Research Leadership Committee, National Jewish Health
2016-present	Recruitment Committee for Pediatric Pulmonary Division, National Jewish Health

C. UNIVERSITY OF COLORADO DENVER, 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

2006-present Research Center, University of Colorado Denver
 2008 Research Advisory Committee, University of Colorado Denver
 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 NIH/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 <i>Peanut Allergy Oral Immunotherapy Study of AR101 in Children and Adults</i>
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

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. II 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. Seeborn 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. 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

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

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, Denver, CO

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
 Innate immune response in allergic diseases

IX. JOURNAL ACTIVITIES

2017- Executive Editor, Annals of Allergy, Asthma & Immunology
 1998-2015 Editor-in-Chief, The Journal of Allergy and Clinical Immunology
 2006-2010 Consulting Editor, 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. 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.
3. 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.
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. 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.
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: \$288,390.
13. 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.
14. National Institute of Arth/Musculosk/Skin Dis (1R01AR41256). "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. 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.
16. 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.
17. 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.
18. 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.
19. National Institute of Arth/Musculoskel/Skin Disease (1R01AR41256). "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.
20. 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.
21. 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.
22. 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.
23. 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.

24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. National Institutes of Health, Heart, Lung and Blood Institute (5R01HL37260-12) "Pathogenesis and Etiology of Kawasaki Syndrome." Principal investigator: Donald YM Leung, MD, PhD, 12/1/99-11/30/04. Total Direct Costs: \$785,421.
34. 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.
35. 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.
36. Estée Lauder, Inc. Skin microbiology, Principal Investigator: Donald YM Leung, MD, PhD, 4/10/31-10/31/00. Total Direct Costs: \$43,286.
37. Novartis: anti-IgE in atopic dermatitis. Principal Investigator: Donald YM Leung, MD, PhD, 9/07/00-04/11/02. Total Direct Costs: \$23,332.

38. 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.
39. 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.
40. 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.
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). "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 (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.
50. 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.
51. 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.
52. 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.
53. NIH/NIAMS (1R01AR41256). "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.
54. 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.
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/NIAMS (1R01AR41256). 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.
 63. 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.
 64. 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.
 65. 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.
 66. 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.
 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. FARE Network Center of Food Allergy Excellence. Director: Donald Leung, MD, PhD. 7/1/15-6/30/16; Total Direct Costs: \$125,000.
 69. 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.
 70. 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.

71. MedImmune. Epidermal Signatures in Atopic Dermatitis. PI: Donald Leung, MD, PhD. 2/1/16-1/30/19. Total Direct Costs: \$350,000.
72. Pfizer (W11215023) Rheuma Derma IBD. Principal Investigator: Donald YM Leung, MD, PhD. 7/1/16-12/30/18. Total Direct Costs: \$108,089.
73. DBV Peptides (14366). Principal Investigator: Donald YM Leung, MD, PhD. 4/4/16-4/3/18. Total Direct Costs: \$42,143.
74. AstraZeneca Pharmaceuticals (AZD7624) Co-principal Investigator: Donald YM Leung, MD, PhD; Co-Investigator: Elena Goleva, PhD. Expires 12/31/18.
75. 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
76. FARE Network Center of Food Allergy Excellence. Director: Donald Leung, MD, PhD. 7/1/16-6/30/18; Total Costs: \$234,000.
77. 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.
78. NIH/NIAID (1U19AI117673-01) 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.
79. NIH/NIAMS (5R01AR41256-25). 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.
80. NIH/NCATS (UL1TR002535) CCTSI-Clinical Translational Research Center. Principal Investigator: Ron Sokol, MD; Co-Investigator: Donald YM Leung, MD, PhD. 5/1/18-4/30/23. Total Direct Costs: \$46,500,000.
81. 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: \$174,380.
82. NIH/NIAID (UM1AI130780-02) CoFAR Clinical Research Unit. Principal Investigator: Donald YM Leung, MD, PhD. 3/1/17-2/29/24. Total Direct Costs: \$148,264.
83. 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.
- 84.

XI. BIBLIOGRAPHY (Selected) H index = 111

A. Peer reviewed journal articles

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. PMID: 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. PMID: 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. PMID: 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. PMID: 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 Immunodeficient 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. Immunodeficient 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, Szefer SJ, **Leung DYM**. The growing problem of steroid-resistant asthma. Drug Ther 1993;23:55-62.
108. Kam JC, Szefer 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;342:1385-88. 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, Szefer 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, Yasrael 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, Delespese 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. Ezepchuk 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 1996;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;265:4-9.
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;17:326-33.
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;83:199-204.
205. Spahn JD, **Leung DYM**, Szeffler SJ. New insights into the pathogenesis and management of steroid resistant asthma. J Asthma 1997;34:177-94.
206. Jirapongsananuruk O, **Leung DYM**. Clinical applications of cytokines. Ann Allergy Asthma Immunol 1997;79:5-20.
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;79:197-211.
209. Lanz MJ, **Leung DYM**, Harbeck R, Szeffler SJ, White CW. Use of exhaled nitric oxide to monitor ongoing inflammation in children with asthma. Pediatr Pulmonol 1997;24:305-311.
210. **Leung DYM**, Sullivan KE, Brown-Whitehorn TF, Fehringer AP, Allen S, Finkel TH, Washington RL, Schlievert PM. Association of toxic shock syndrome toxin- and exfoliative toxin-secreting *Staphylococcus aureus* with Kawasaki syndrome complicated by coronary artery disease. Pediatr Res 1997;42:268-72.
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;17:683-90.
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;186:1567-74.
214. **Leung DYM**. The immunologic basis of allergic diseases. Pediatr Res 1997;42:559-68.
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;9:565-9.
217. **Leung DYM**. Immunologic basis of chronic allergic diseases: clinical messages from the laboratory bench. Pediatr Res 1997;42:559-68.
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.
220. Boguniewicz M, **Leung DYM**. Atopic dermatitis: a question of balance. Arch Dermatol 1998;134(7):870-1.
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.
222. Nimmagadda SE, Spahn JD, Nelson HS, Szefer 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;81:35-40.
223. **Leung DYM**, deCastro M, Szefer SJ, Chrousos GP. Mechanisms of glucocorticoid resistant asthma. Ann NY Acad Sci 1998;840:735-46.
224. Chan MT, **Leung DYM**, Szefer SJ, Spahn JD. Difficult-to-control asthma: clinical characteristics of steroid- insensitive asthma. J Allergy Clin Immunol 1998;101:594-601.
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;160:4622-7.
226. **Leung DYM**. Molecular basis of allergic diseases. Mol Genet Metab 1998;63:157-67.
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;28:1145-52.
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.
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;102:245-50.
230. **Leung DYM**, Schlievert PM. Association of Toxic Shock Syndrome Toxin- and exfoliative toxin-secreting *Staphylococcus aureus* with Kawasaki syndrome complicated by coronary artery disease. Pediatr Res 1998;43:291-3.
231. Boguniewicz M, **Leung DYM**. Allergic contact dermatitis. Cortlandt Forum 1998;11:165-6.
232. **Leung DYM**, Szefer SJ. New Insights into steroid resistant asthma. Pediatr Allergy Immunol 1998;9:3-12.

233. **Leung DYM**, Schlievert PM, Meissner HC. The immunopathogenesis and management of Kawasaki syndrome. Arth Rheum 1998;41:1538-47.
234. 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. J Allergy Clin Immunol 1998;102:637-44.
235. Chu HW, Halliday JL, Martin RJ, **Leung DYM**, Szeffler SJ, Wenzel SE. Collagen deposition in large airways does not differentiate severe asthma from milder forms of the disease. Am J Respir Crit Care Med 1998;158:1936-44.
236. **Leung DYM**, Hauk PJ, Strickland I, Travers JB, Norris DA. The role of superantigens in human diseases - therapeutic implications for treatment of skin disorders. Br J Dermatol 1998;139:17-29.
237. **Leung DYM**. The role of superantigens in allergic skin disease. Environ Dermatol 1998;5:1-4.
238. **Leung DYM**. Atopic dermatitis and the Th2 concept. Environ Dermatol 1998;5:107-9.
239. Szeffler SJ, **Leung DYM**. Corticosteroid resistant asthma: pathogenesis and clinical implications for management. J Respir Dis 1998;11:256.
240. Boguniewicz M, **Leung DYM**. Atopic dermatitis: a question of balance. Arch Dermatol 1998;134:870-1.
241. **Leung DYM**. Transformation of The Journal begins. J Allergy Clin Immunol 1998;102:18.
242. 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.
243. 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.
244. Hofer MF, Harbeck RJ, Schlievert PM, **Leung DYM**. Staphylococcal toxins augment specific IgE responses by atopic patients exposed to allergen. J Invest Dermatol 1999;112:171-6.
245. **Leung DYM**, Spahn JD, Szeffler SJ. Immunologic basis and management of steroid resistant asthma. Allergy Asthma Proc 1999;20:9-14.
246. 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;82:161-4.
247. 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.
248. 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;112:249-53.
249. Wann L, Fehringer AP, Harbeck R, Schlievert PM, Höök M, **Leung DYM**. Staphylococcal isolates from Kawasaki disease hypersecrete extracellular protein A.

- Infect Immunol 1999;67:4737-43.
250. Wamboldt FS, Spahn JD, Klinnert MD, Wamboldt MZ, Gavin LA, Szefer SJ, **Leung DYM**. Clinical outcomes of steroid insensitive asthma. Ann Allergy Asthma Immunol 1999;83:55-60.
251. Hauk PJ, Wenzel SE, Trumble AE, Szefer SJ, **Leung DYM**. Increased T-cell receptor β 8+ T cells in bronchoalveolar lavage fluid of subjects with poorly controlled asthma: a potential role for microbial superantigens. J Allergy Clin Immunol 1999;104:37-45.
252. Fost DA, **Leung DYM**, Martin RJ, Brown EE, Szefer SJ, Spahn JD. Inhibition of methylprednisolone elimination in the presence of clarithromycin therapy. J Allergy Clin Immunol 1999;103:1031-5.
253. Spahn JD, **Leung DYM**, Chan MTS, Szefer SJ, Gelfand EW. Mechanisms of glucocorticoid reduction in asthmatics treated with intravenous immunoglobulin. J Allergy Clin Immunol 1999;103:421-6.
254. Cunningham MW, Meissner HC, Heuser JS, Pietra BA, Kurahara DK, **Leung DYM**. Anti-human cardiac myosin autoantibodies in Kawasaki syndrome. J Immunol 1999;163:1060-5.
255. Ezepechuk YV, Fehringer 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.
256. Hong SJ, Michael JG, Fehringer A, **Leung DYM**. Pepsin-digested peanut contains T-cell epitopes but no IgE epitopes. J Allergy Clin Immunol 1999;104:473-8.
257. Spahn JD, **Leung DYM**. Steroid resistant asthma: Pathogenesis and management. Resident and Staff Physician 1999;45:11-25.
258. Rabinovitch N, Gelfand EW, **Leung DYM**. The role of immunoglobulin therapy in allergic diseases. Allergy 1999;54:662-8.
259. **Leung DYM**. Pathogenesis of atopic dermatitis. J Allergy Clin Immunol 1999;104:S99-108.
260. 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
261. 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.
262. **Leung DYM**. How effective is intravenous immunoglobulin in steroid resistant asthma? J Respir Dis 1999;21:162-3.
263. **Leung, DYM**. Therapeutic perspectives in atopic dermatitis. Allergy 1999;54(s58):39-42.
264. **Leung DYM**. New opportunities, new products. J Allergy Clin Immunol 2000;106:1043-4.
265. **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.
266. 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;114:200-3.
267. **Leung DYM**, Meissner HC. Heterogeneity in Kawasaki syndrome. Hosp Pract 2000;35:77-94.
268. Meissner HC, **Leung DYM**. Superantigens, conventional antigens and the etiology of Kawasaki syndrome. Pediatr Infect Dis J 2000;19(2):91-4.
269. 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 upregulation of T cells via a superantigen-mediated mechanism. J Allergy Clin Immunol 2000;105:820-6.
270. Hauk PJ, Hamid QA, Chrousos GP, **Leung DYM**. Induction of corticosteroid insensitivity in human peripheral blood mononuclear cells by microbial superantigens. J Allergy Clin Immunol 2000;105:782-7.
271. 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.
272. **Leung DYM**. Atopic Dermatitis: New insights and opportunities for therapeutic intervention. J Allergy Clin Immunol 2000;105:860-76.
273. 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.
274. **Leung, DYM**. Rationale for antibiotic/steroid combinations in the treatment of atopic dermatitis. Dermatology in Practice 2000;8:1-7.
275. Gereda JE, **Leung DYM**, Liu AH. Levels of environmental endotoxin and prevalence of atopic disease. JAMA 2000;284:1652-3. PMID: 11015794.
276. 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.
277. Beck LA, **Leung DYM**. Allergen sensitization through the skin induces systemic allergic responses. J Allergy Clin Immunol 2000;106:S258-S263.
278. 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.
279. 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.
280. Liu AH, **Leung DYM**. Modulating the early allergic response with endotoxin. Clin Exp Allergy 2000;30:1535-9.
281. 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.
282. **Leung DYM**, Soter NA. Cellular and immunologic mechanisms in atopic dermatitis. J Am Acad Dermatol 2001;44:S1-S12.

283. 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.
284. 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.
285. **Leung DYM**. Atopic dermatitis and the immune system: The role of superantigens and bacteria. J Am Acad Dermatol 2001;45:S13-S16.
286. Orwin PM, **Leung DYM**, Donahue HL, Novick RP, Schlievert PM. Biochemical and biological properties of Staphylococcal enterotoxin K. Infect Immun 2001;69:360-6.
287. 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.
288. 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.
289. 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.
290. 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.
291. **Leung DYM**. Launching JACI into the new millennium: Outer space and cyberspace. J Allergy Clin Immunol 2001;107:21.
292. 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.
293. 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.
294. 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.
295. 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.
296. 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.
297. Boguniewicz M, **Leung DYM**. Pathophysiologic mechanisms in atopic dermatitis. Semin Cut Med Surg 2001;20:217-25. PMID: 11770908.
298. 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.
299. 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.
300. Cho S-H, **Leung DYM**. Pathobiology and role of superantigens in human diseases. J Allergy Clin Immunol 2001;21:1125-38.
301. 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.
302. **Leung DYM**, Boguniewicz M. Atopic dermatitis management: Pharmacologic tools of the trade. Allergy Rheumatol Immunol Asthma 2002;3:1-2.
303. **Leung DYM**, Nicole NH. Atopic dermatitis management: Nonpharmacologic tools of the trade. Allergy Rheumatol Immunol Asthma 2002;3:3-4.
304. 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.
305. **Leung DYM**, Spahn JD, Szeffler SJ. Steroid-unresponsive asthma. Semin Respir Crit Care Med 2002;23:387-98. PMID: 16088632.
306. **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.
307. 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. PMCID: PMC126627.
308. 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.
309. 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.
310. 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.
311. 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. PMCID: PMC133074.

312. 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.
313. 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;347:1151-60. PMID: 12374875.
314. 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.
315. 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.
316. **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;348:986-93. PMID: 12637608.
317. **Leung DY**, Bieber T. Atopic dermatitis. *Lancet* 2003;361(9352):151-60. PMID: 12531593.
318. **Leung DY**, Bloom JW. Update on glucocorticoid action and resistance. *J Allergy Clin Immunol* 2003;111:3-22. PMID: 1532089.
319. 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.
320. 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.
321. 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. PMID: PMC153286.
322. 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.
323. Travers JB, **Leung DY**, Johnson C, Schlievert P, Marques M, Cosgrove J, Clay KL. Augmentation of staphylococcal enterotoxin signaling by the epidermal platelet-activating factor receptor. *J Invest Dermatol* 2003;120:789-94. PMID: 12713583.
324. **Leung DY**. Infection in atopic dermatitis. *Curr Opin Pediatr* 2003;15:399-404.
325. **Leung DY**, Boguniewicz M. Advances in allergic skin diseases. *J Allergy Clin Immunol* 2003;111:S805-12.
326. 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.
327. **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.
328. Leung DYM, Nelson HS, Szefer SJ, Busse WW. Esophagitis from pollens? J Allergy Clin Immunol 2003;112(4);641.
329. Meissner HC, **Leung DY**. Kawasaki syndrome: Where are the answers? Pediatr 2003;112:672-6. PMID: 12949301.
330. Gallo RL, **Leung DYM**. Antimicrobial peptides in the skin. N Engl J Med 2003;348:362.
331. 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.
332. 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.
333. **Leung DY**, Jain N, Leo HL. New concepts in the pathogenesis of atopic dermatitis. Curr Opin Immunol 2003;15:634-8. PMID: 14630196.
334. Novak N, Bieber T, **Leung DY**. Immune mechanisms leading to atopic dermatitis. J Allergy Clin Immunol 2003;112:S128-39. PMID: 14657843.
335. 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.
336. 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.
337. 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.
338. 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.
339. **Leung DY**, Shanahan WR, Li XM, Sampson H. New approaches for the treatment of anaphylaxis. Novartis Found Symp 2004;257:248-60. PMID: 15025403.
340. **Leung, DY**, Boguniewicz M, Howell MD, Nomura I, Hamid Q. New insights into atopic dermatitis. J Clin Invest 2004;113:651-7. PMID: PMC351324.
341. Fakhri S, Tulic M, Christodoulou 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.
342. 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.
343. 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.
344. **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:S1-S21. PMID: 15478395.
345. 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.
346. 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.
347. Colice GL, Stampone P, **Leung DYM**, Szeffler SJ. Oral corticosteroids in poorly controlled asthma. J Allergy Clin Immunol 2005;115:200-01. PMID: 15637569.
348. 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.
349. 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
350. **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.
351. 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.
352. Ou L-S, **Leung DY**. Advances in atopic dermatitis. Chang Gung Med J 2005;28:1-8. PMID: 15804142.
353. 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.
354. 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.
355. 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.
356. 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.
357. 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.
358. **Leung DY**. Superantigens, steroid insensitivity and innate immunity in atopic eczema. Acta Derm Venereol Suppl 2005;215:11-15. PMID: 16321901.
359. Bilsborough 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.
360. 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.
361. Boguniewicz M, **Leung DY**. Atopic dermatitis. J Allergy Clin Immunol 2006;117:S475-80. PMID: 16455350.
362. 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;24:341-8. PMID: 16546102.
363. 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.
364. 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. PMCID: PMC2662945.
365. 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.
366. 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. PMCID: PMC2727734.
367. Liu AH, **Leung DY**. Renaissance of the hygiene hypothesis. J Allergy Clin Immunol 2006;117(5):1063-6. PMID: 16675333.
368. 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.
369. 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.
370. 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.
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; 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.
372. 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.
373. Boguniewicz M, Schmid-Grendelmeier P, **Leung DY**. Atopic dermatitis. J Allergy Clin Immunol 2006;118:40-43. PMID: 16815136.
374. **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
375. 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.
376. Fiset PO, **Leung DY**, Hamid Q. Immunopathology of atopic dermatitis. J Allergy Clin Immunol 2006;118(1):287-90. PMID: 16815171.
377. Ong PY, **Leung DY**. Immune dysregulation in atopic dermatitis. Curr Allergy Asthma Rep 2006;6:384-389. PMID: 16899200.
378. 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.
379. 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
380. 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
381. 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. PMID: PMC2746067.
382. 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.
383. Brouillard J-NP, Günther S, Varma AK, Gryski I, Herfst CA, Nur-ur Rahman AKM, **Leung DYM**, Schlievert PM, Madrenas J, Sundberg EJ, McCormick JK. Crystal structure of the streptococcal superantigen Spel 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.
384. 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
385. Peng W, Jenneck C, Busmann C, Bogdanow M, Hart J, **Leung DY**, Bieber T, Eis-Hübinger AM, Novak N. Risk factors of atopic dermatitis patients for eczema herpeticum. J Invest Dermatol 2007;127(5):1261-3. PMID: 17170734.
386. 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.
387. 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 β -defensin expression through STAT-6, SOCS-1, and SOCS-3. J Immunol 2007;179:984-92. PMID: 17617590.
388. 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. PMCID: PMC2669594.
389. 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.
390. Li L, **Leung DYM**, Strand MJ, Goleva E. ATF2 impairs glucocorticoid receptor-mediated transactivation in human CD8⁺ T cells. Blood 2007;110:1570-1577. PMCID: PMC1975841.
391. 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.
392. 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.
393. 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. PMCID: PMC2697657.
394. Platts-Mills T, **Leung DY**, Schatz M. The role of allergens in asthma. Am Fam Phys 2007;76(5):675-80. PMID: 17894137.
395. **Leung DYM**, Woodward G, The Journal: Adapting to change, positioning ourselves for the future. J Allergy Clin Immunol 2008;121(1):p24-25.
396. 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.
397. 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.
398. 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.
399. 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.
400. 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.
401. 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.
402. 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.
403. 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 β -defensin-3. J Allergy Clin Immunol 2008;122:62-8. PMID: 18538383.
404. 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.
405. 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.
406. 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.
407. 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.
408. 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.
409. 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.
410. **Leung DY**. Directing the innate immune response to prevent and control allergic diseases. J Allergy Clin Immunol 2008;122(5):893-4. PMID: 19000578.

411. 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.
412. 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.
413. **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.
414. 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.
415. 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.
416. Beck LA, Boguniewicz M, Hata TR, Schneider LC, Hanifin JM, Gallo RL, Paller AS, Lief 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.
417. 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.
418. 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.
419. **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.
420. 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.
421. 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.
422. Byrne AM, Goleva E, **Leung DY**. Identification of glucocorticoid-induced TNF receptor-related protein ligand on keratinocytes: ligation by G1TR induces keratinocyte chemokine production and augments T-cell proliferation. J Invest Dermatol 2009;129(12):2784-94. PMID: 19536139.
423. 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.

424. 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.
425. 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. PMCID: PMC2814071.
426. 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. PMCID: PMC2814367.
427. 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. PMCID: PMC2814072.
428. 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. PMCID: PMC2868500.
429. 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. PMCID: PMC2837507.
430. Fonacier LS, Dreskin SC, **Leung DY**. Allergic skin diseases. J Allergy Clin Immunol. 2010;125(2 Suppl 2):S138-49. PMID: 19932921.
431. 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. PMCID: PMC2866800.
432. 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. PMCID: PMC2925504.
433. 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. PMCID: PMC2868273.
434. 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.
435. Ong PY, **Leung DYM**. The infectious aspects of atopic dermatitis. Immunol Allergy Clin N Am 2010;30:309-321. PMCID: PMC2913147.
436. Searing DA, **Leung DYM**. Vitamin D in atopic dermatitis, asthma and allergic diseases. Immunol Allergy Clin N Am 2010;30:397-409. PMCID: PMC2914320.
437. Hata TR, Kotal 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.
438. **Leung DYM**, Searing DA. Steroid resistance in pulmonary diseases. Pulmonary Critical Care, Sleep Update (PCCSU) 2010;24:1-6. (No PMID)
439. 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.
440. 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.
441. Li LB, **Leung DYM**, Martin RJ, Goleva E. Inhibition of histone deacetylase 2 expression by elevated glucocorticoid receptor β in steroid-resistant asthma. Am J Respir Crit Care Med 2010;182(7):877-83. PMID: PMC2970859.
442. 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.
443. 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.
444. 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.
445. 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.
446. 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.
447. 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.
448. 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.
449. 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.

450. 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.
451. **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.
452. 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.
453. Boguniewicz M, **Leung DYM**. Atopic dermatitis: A disease of altered skin barrier and immune dysregulation. Immunolog Rev 2011;242(1):233-46. PMID: PMC3122139.
454. 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.
455. 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.
456. 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.
457. 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.
458. 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.
459. 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.
460. **Leung DY**. Early intervention in the management of atopic dermatitis. Asia Pac Allergy 2011;1(2):51-2. PMID: PMC3206253.

461. Irvine AD, McLean WHI, **Leung DYM**. Filaggrin mutations: Associations with skin and allergic diseases. N Engl J Med 2011; 365(14):1315-27. PMID: 21991953.
462. Novak N, **Leung DY**. Advances in Atopic dermatitis. Curr Opin Immunol 2011;23(6):778-783. PMID: PMC3232325.
463. 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.
464. 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.
465. 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.
466. 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.
467. 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.
468. 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.
469. 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.
470. Kim BE, **Leung DYM**. Epidermal Barrier in Atopic Dermatitis. Allergy Asthma Immunol Res 2012;4(1):12-16. PMID: PMC3242054.
471. 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.
472. Bin L, Kim BE, Brauweiler A, Goleva E, Streib J, J Yi, Schilevert 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.
473. 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.
474. 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.

475. 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.
476. 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.
477. 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.
478. 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.
479. 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.
480. Spaulding AR, Salgado-Pabon W, Kohler PL, Horswill AR, **Leung DYM**, Schlievert PM. Staphylococcal and streptococcal superantigen exotoxins. Clin Microbio Rev 2013;26(3):422-47. PMID: PMC3719495.
481. **Leung DYM**. Why is eczema herpeticum unexpectedly rare? Antiviral Res 2013;98(2):153-57. PMID: PMC3773952.
482. **Leung DYM**. New insights into atopic dermatitis: role of skin barrier and immune dysregulation. Allergol Int 2013;62(2):151-61. PMID: 23712284.
483. Mathias RA, Weinberg A, Boguniwicz M, Zaccaro DJ, Armstrong B, Schneider LC, Hata TR, Hanifin JM, Beck LA, Barnes 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.
484. 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. PMID: PMC3630251.
485. 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. PMID: PMC3656308.
486. 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. PMID: PMC3785566.
487. Boguniewicz M, **Leung DY**. The ABC's of managing patients with severe atopic dermatitis. J Allergy Clin Immunol 2013;132(2):511-12. PMID: PMC3785088.
488. 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.
489. 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;188(10):1193-1201. PMID: PMC3863730.
490. 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.
491. Hata TR, Audish D, Kotal 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. PMID: PMC3769441.
492. 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.
493. 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.
494. 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. PMID: PMC3951978.
495. 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.
496. 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. PMID: PMC3960337.
497. 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. PMID: PMC4105176.
498. **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.
499. 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.
500. 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.
501. 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.
502. 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.
503. 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. PMCID: PMC4447451.
504. Barron MA, **Leung DYM**. Lessons from Ebola and readiness for new emerging infectious threats. *J Allergy Clin Immunol* 2015;135:872-4. PMID: 25843599.
505. **Leung DY**. Porphyllactic emollient use beginning at birth prevents atopic dermatitis. *J Pediatr* 2015;166(3):777-8. PMID: 25722275.
506. **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.
507. 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.
508. Merriman JA, Klingelutz 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.
509. **Leung DYM**. Atopic dermatitis: Age and race do matter! *J Allergy Clin Immunol* 2015;136:1265-7. PMID: 26549637.
510. 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.
511. 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. PMCID: PMC4789098.
512. 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.
513. 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.
514. 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. PMCID: PMC4985031.
515. 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. PMCID: PMC4826859.
516. 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. PMCID: PMC5056801.
517. Bin L, **Leung DY**. Genetic and epigenetic studies of atopic dermatitis. Allergy Asthma Clin Immunol 2016;12:52. PMCID: PMC5069938.
518. Brauweiler AM, Goleva E, **Leung DY**. Interferon- γ protects from staphylococcal alpha toxin-induced keratinocyte death through apolipoprotein L1. J Invest Dermatol 2016;136(3):658-64. PMCID: PMC4808518.
519. 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. PMCID: PMC5235385.
520. 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. PMCID: PMC5035709.
521. 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. PMCID: PMC4789127.
522. **Leung DY**. Clinical implications of new mechanistic insights into atopic dermatitis. Curr Opin Pediatr 2016;28(4):456-62. PMCID: PMC4988808.
523. 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.
524. 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. PMCID: PMC5082817.
525. 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. PMCID: PMC5033594.

526. 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). pii: e00295-16. PMID: PMC5143412.
527. 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.
528. 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.
529. 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). PMID: PMC5600545.
530. 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 ORAI1 gene polymorphisms with chronic spontaneous urticaria and the efficacy of non-sedating H1 antihistamines desloratadine. J Allergy Clin Immunol 2017;139(4):1386-1388.e9. PMID: 27864023.
531. 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. PMID: 28091362.
532. 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.
533. 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.
534. 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.
535. **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.
536. **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. PMID: PMC5786280.

537. 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
538. 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.
539. 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. PMID: 28477847.
540. 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.
541. 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 .
542. 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.
543. 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.
544. 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..
545. 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 of extract. J Invest Dermatol 2018;138(5):1176-1186. PMID: 29277539.
546. Izadi N, **Leung DYM**. Clinical approach to the patient with refractory atopic dermatitis. Ann Allergy Asthma Immunol 2018;120(1):23-33. PMID: 29273125.
547. 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.
548. 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.

549. 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. PMID: 28757371.
550. 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.
551. 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.
552. 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. PMID: PMC5994174.
553. 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.
554. 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.
555. 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.
556. 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. PMID: PMC6282170.
557. 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;3(4). PMID: PMC5916244.
558. 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.
559. Kim BE, **Leung DYM**. Significance of skin barrier dysfunction in atopic dermatitis. Allergy Asthma Immunol Res 2018;10(3):207-215. PMID: PMC5911439.
560. Siegfried EC, Jaworski JC, Eichenfield LF, Paller A, Hebert AA, Simpson EL, Altman E, Arena C, Blauvelt A, Block J, Boguniewicz M, Chen S, Cordoro 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, Tollefson 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.
561. Reisdorph N, Armstrong M, Powell R, Quinn K, Legg K, **Leung D**, Reisdorph R. Quantitation of peptides from non-invasive skin tapkings using isotope dilution and tandem mass spectrometry. J Chromatogr B Analyt Technol Biomed Life Sci 2018;1084:132-140. PMID: PMC6093185.
562. 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.
563. 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.
564. 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.
565. 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.
566. **Leung DYM**. Atopic dermatitis: more than a rash. Ann Allergy Asthma Immunol 2018;120(6):555-556. PMID: 29891118.
567. 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.
568. 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. PMID: PMC6132253.
569. **Leung DYM**. Can antibiotics be harmful in atopic dermatitis? Br J Dermatol 2018;179(4):807-808. PMID: 30318811.
570. 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.
571. 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
572. 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.
573. 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
574. 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.
575. **Leung DYM**. The effect of being African American on atopic dermatitis. Ann Allergy Asthma Immunol 2019;122(1):1. PMID: 30579430.
576. Goleva E, Berdyshev E, **Leung DY**. Epithelial barrier repair and prevention of allergy. J Clin Invest 2019;129(4):1463-1474. PMID: PMC6436854.
577. **Leung DYM**. The microbiome and allergic disease: a struggle between good and bad microbes. Ann Allergy Asthma Immunol 2019;122(3):231-232. PMID: 30639436.
578. **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;11(480). PMID: 30787169.
579. 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;143:940-947. PMID: 30059697.
580. 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: 30639346.
581. Kim J, Kim BE, **Leung DYM**. Pathophysiology of atopic dermatitis: clinical implications. Allergy Asthma Proc 2019;40(2):84-92. PMID: PMC6399565.
582. Schlievert PM, Cahill MP, Hostager BS, Brosnahan AJ, Klingelhutz AJ, Gourronc

- FA, Bishop GA, **Leung DYM**. Staphylococcal superantigens stimulate epithelial cells through CD40 to produce chemokines. MBio 2019;10(2). pii: e00214-19 PMID: PMC6426597.
583. Do AN, Watson CT, Cohain AT, Grishin A, Wood RA, Burks AW, 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. Nat Comm 2019 (Pending).
584. Sicherer SH, Wood RA, Perry TT, Jones SM, **Leung DYM**, Henning AK, Dawson P, Burks AW, Linblad R, Sampson HA. Clinical factors associated with peanut allergy in a high-risk infant cohort. Allergy 2019;74(11):2199-2211 PMID: PMC6817376.
585. 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.
586. Brauweiler A, Goleva E, **Leung DYM**. *Staphylococcus aureus* lipoteichoic acid initiates a TSLP-Basophil-IL4 axis in the skin. J Invest Dermatol 2019; pii: S0022-202X(19)33230-0. PMID: 31539531
587. 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.
588. 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.
589. 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.
590. 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.
591. 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 Nov;139(11):2387-2389.e1. PMID: PMC6814531
592. Eiwaffer T, Anagostou K, Arasi S, Bégin P, Ben-Shoshin 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.

593. 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. 2019. pii: S0091-6749(19)31414-9. PMID: 31678426
594. Marshall GD, Ellis A, Grayson M, **Leung DY**, Lieberman J, Nowak-Wegrzyn A, Oppenheimer J. Ann Allergy Asthma Immunol. 2019; pii: S1081-1206(19)31459-0. PMID: 31790813.
595. 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.
596. 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 OIT protocol. J Allergy Clin Immunol. 2019;pii:S0091-6749(19)32596-5. PMID: 31881232.
597. 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. (In Press)
598. 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. Journal of Immunology Research. January 3 2020. Article ID 5084682, 8 pages. (In Press).
599. 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. Human Vaccines & Immunotherapeutics. (In Press).
600. **Leung DYM**, Berdyshev E, Goleva E. Cutaneous Barrier Dysfunction in Allergic Diseases. J Allergy Clin Immunol. 2020. (In Press).
601. Geisler AN, Phillips GS, Barrios DM, Wu J, Naidoo J, **Leung DYM**, Lacouture ME. CME Part 2: Immune checkpoint inhibitor-related dermatologic adverse events. Journal of American Academy of Dermatology. 2020. (In Press).

Chapters

1. **Leung DYM**, Clark J, Glagov S, Mathews S. Mechanical influences on the biosynthesis of extracellular macromolecules by aortic cells. In: Slavkin HC,

- Grulich 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. Condemi 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. Condemi 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. Szeffler 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. Szeffler 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. Szeffler 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**, Szeffler 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*. Bieber T, **Leung DYM** (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 DY**. 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 DY. *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 D**, 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.

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, Szeffler 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, Szeffler 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. Szeffler 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. Szeffler 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, Szeffler 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, Szeffler SJ. Pediatric Allergy: Principles and Practice, 2nd Edition. Elsevier; 2010; 688 pages.
21. **Leung DYM**, Szeffler SJ, Bonilla FA, Akdis CA, Sampson HA. Pediatric Allergy: Principles and Practice, 3rd Edition. Elsevier; 2016; 553 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 DY**, 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 DY**, 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 DY**, 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 DY**. Diet and allergy: you are what you eat? *J Allergy Clin Immunol* 2005;115(6):1235-37.
 12. Bender BG, **Leung DY**. 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 DY**, Nelson HS, Szeffler SJ. The editors' choice. *J Allergy Clin Immunol* 2006;118:293-94.
 15. Shearer WT, **Leung DY**. Preface to the 2006 mini-primer on allergic and immunologic diseases. *J Allergy Clin Immunol* 2006;117:S429.
 16. Szeffler SJ, Whelan GJ, **Leung DY**. "Black box" warning: wake-up call or overreaction? *J Allergy Clin Immunol* 2006;117:26-29. PMID: 16387579
 17. **Leung DY**. Early intervention in the management of atopic dermatitis. *Asia Pacific Allergy* 2011;1(2):51-52.
 18. **Leung DY**. Food allergy: are we getting closer to a cure? *J Allergy Clin Immunol* 2011;127(3):555-7. PMID: 21377029
 19. **Leung DY**. Davos Declaration: Allergy as a global problem. *Allergy* 2012;67:141-43.
 20. Sprecher E, **Leung DY**. Atopic dermatitis: scratching through the complexity of barrier dysfunction. *J Allergy Clin Immunol* 2013;132(5):1130-1. PMID: 24176684
 21. Boguniewicz M, **Leung DY**. 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 DY.** Prophylactic emollient use beginning at birth prevents atopic dermatitis. *J Pediatr* 2015;166(3);777-80. PMID: 25722275
23. **Leung D.** (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(5):115. PMID: 31376840
27. **Leung DYM.** Allergic skin diseases beyond T_H2. *Ann Allergy Asthma Immunol*. 2020;124(1);1. PMID: 31836072

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,** Klinnert 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 M, 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**, Klinnert 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 (ADV) 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- κ B 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 GITR-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 DY**. 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 DY**, 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 DY**. 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 DY**. 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 DY**, 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 DY**, 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 DY**, 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 DY**, 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 DY**. 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 DY**. 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 DY**. 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 DY**. Immunomodulatory effect of rapamycin on innate immune response genes. *J Allergy Clin Immunol* 2009;123(2, S1):Abstract #115, S33.
 98. **Leung DY**, 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 DY**, 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 DY**, 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 DY**, 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 DY**, 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 DY**, 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 DY**. 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**

DY, 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 DY**. 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 DY**. 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 DY**, 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 DY**, 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 DY**. 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 DY**. 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 DY**, 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 DY**. 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 DY**. 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 DY**, Beck L, Gao PS, Campbell M, Boguniewicz M, Hata T, Schneider L, Hanifin J, Gallo R, Gao L, Beatty 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 DY**, 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 DY**. 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 DY**, 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 DY**, 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 DY**. Staphylococcus Aureus Alpha-Toxin Augments Viral Load In Keratinocytes. *J Allergy Clin Immunol* 2012; 129 (2) Suppl; AB206.
137. Abbott J, Everett DC, **Leung DY**. 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 DY**. 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 DY**, 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 DY**, 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 DY**, 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 DY**. 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 DY**. 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 DY**, 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 DY, 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 DY**. 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, **Lueng 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 DY**, 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 DY**, 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 DY**, 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 DY**, 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 D**, 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 DY**, 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 DY**, 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, 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.

234.