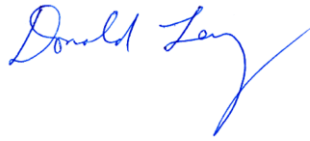


CURRICULUM VITAE
Donald YM Leung, MD, PhD



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)
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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
2022-	Distinguished Professor of Pediatrics, Department of Pediatrics, National Jewish Health, Denver, CO

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, Bilborough 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)
- 2020 Methods of Protecting and Preventing Atopic Allergic Diseases. (U. S. Patent Application Number 15/385,051)

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 AFCR 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 E. Mead Johnson Award for Outstanding Research in Pediatrics, Society for Pediatric Research
 1997
 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
2020	Web of Science's Highly Cited Researchers of 2020
2021	Gary S. Rachelefsky, MD FAAAAI Lectureship: Investing Together in Our Future at the 2021 AAAAI Virtual Annual Meeting.
2021	Named by The Journal of The America Academy of Dermatology as one of the top 5 most highly cited authors in Dermatology.
2021	Named by The Journal of The America Academy of Dermatology as the investigator with the top H-index and C-score amongst the most highly cited authors in Dermatology (Szeto MD, et al. Top authors in dermatology: Comparisons of standardized database citation indicators. J Am Acad Dermatol. 2021;85(1):e57-e59. PMID: 33774089).
2022	AAAAI Foundation and Donald Y. M. Leung, MD PhD FAAAAI-JACI Lecture: Investing Together in Our Future
2022	Research.com Ranking of Top 1,000 Scientists in the Field of Immunology. Ranked #69 in the world and #49 in the United States.

V. PROFESSIONAL SOCIETIES

1983	American Federation of Clinical Research
1983	American Academy of Allergy and Immunology, Member
1983	American Association of Immunologists
1984	New England Society of Allergy
1986	Collegium International Allergologicum
1987	Society for Pediatric Research
1987	American Academy of Allergy, Asthma and Immunology, Fellow
1989	American Association for the Advancement of Science
1989	Colorado Allergy Society
1992	Society for Investigative Dermatology
1993	European Society of Pediatric Allergy and Clinical Immunology
1993	American Society for Clinical Investigation
2001	American College of Allergy, Asthma and Immunology, Fellow

VI. COMMITTEE PARTICIPATION (Abbreviated)

A. CHILDREN'S HOSPITAL, BOSTON, MA

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

B. NATIONAL JEWISH HEALTH, DENVER, CO

1989-present	Member, Executive Committee, Department of Pediatrics
1990-present	Chairman, Steering Committee, Division of Allergy & Immunology
1990-1992	Member, Clinical Investigation Committee
1990-present	Chairman, Pediatric Fellows Research Committee
1990-1991	Member, Research Task Force
1991-1993	Member, Task Force for Incentive Compensation
1992-present	Member, Keystone Allergy Conference Planning Committee
1992-2000	Chairman, Clinical Investigation Committee
1993	Chairman, Focus Group on Allergy

1994	Director, NIH General Clinical Research Center Satellite at National Jewish Health
2004-present	Faculty Recruitment Oversight Committee Member
2008	Center for Genetics and Therapeutics Working Group at National Jewish Health
2011	Clinical Research Leadership Committee; National Jewish Health, Denver
2011	IRB Scientific and Scholarly Review Working Group, National Jewish Health, Denver
2012	National Jewish Health and Children's Hospital of Colorado Affiliation Committee
2015-2019	Director, Food Allergy Research Education (FARE) Center of Excellence, National Jewish Health
2016-2018	Department of Pediatrics Executive Committee, National Jewish Health
2019-present	Recruitment Committee for NJH Clinical Immunology Division, National Jewish Health

C. UNIVERSITY OF COLORADO DENVER, DENVER, CO

1990-present	Member, Scientific Advisory Committee, Pediatric Clinical Research Center
1993-present	Member, Scientific Advisory Committee, Department of Medicine Clinical Research Center
1994-present	Associate Program Director, NIH-funded General Clinical Research Center, University of Colorado Denver
2006-present	Research Advisory Committee, University of Colorado Denver
2008	Dean's Advisory Committee, Program for the Dean's Distinguished Lecture Series, University of Colorado Denver

D. NATIONAL

1987-1993	American Academy of Allergy, Committee on Cutaneous Diseases
1987	Ad Hoc Committee, NIH Immunologic Sciences Study Section
1988-present	Eczema Association for Science and Education, Scientific Advisory Committee
1988-1993	American Academy of Allergy, Postgraduate Education Committee
1989	Ad Hoc Committee, NIH Immunologic Sciences Study Section
1990	NIAID Task Force for New Research Initiatives in Immunology and Allergy
1991-1994	Immunology and Microbiology Study Committee for the American Heart Association
1991-present	Joint Test Committee for Diagnostic and Laboratory Immunology, American Board of Pediatrics Representative
1991-present	American Academy of Allergy, Chairman of Atopic Dermatitis Committee
1992-1997	National Institutes of Health, General Medicine A Study Section
1992-1994	American Academy of Allergy, Secretary of Cutaneous Diseases Interest Section
1992-1995	American Academy of Allergy, Program Committee
1993	American Academy of Allergy/Clinical Immunology Society, Joint Focus Group on Autoimmunity

1994-1997 American Academy of Allergy, Asthma and Immunology, Chairman of Cutaneous Diseases Interest Section

1995-1997 American Academy of Allergy, Asthma and Immunology, Member, Nominating Committee

1997-2003 Board of Directors, American Board of Allergy and Immunology

1998-2000 Co-Chair, American Board of Allergy and Immunology Certifying Exam

1998-present Co-Chair, Program Committee, 1999 Conjoint Conference of AAAAI and American Academy of Dermatology, New York

1998-present Chairman, AAAAI, Editorial Committee

2002 AAAAI Research Task Force

2003-2004 Chairman, American Board of Allergy/Immunology, Nominating Committee

2004 Member, AAAAI Education Division

2004 Member, AAAAI Practice and Policy Division

2005 Chairman, American Academy of Allergy, Asthma and Immunology Topical Calcineurin Inhibitor Task Force

2005-2008 Vice-Chairman, American Academy of Allergy, Asthma and Immunology Referral Guidelines Committee

2005-2013 Chairman, Medical Advisory Board - Food Allergy Initiative

2004-2008 AAAAI Atopic Dermatitis/Eczema Committee (IS)

2004-2008 AAAAI Board of Directors (D), At-Large Member

2003-2015 JACI Editorial Board (D), Chair

2004-2008 AAAAI Mini-Primer Task Force (D), Co-Chair

2007-2008 AAAAI Board of Directors, At-Large Member

2004-present Edelstein Chair in Pediatric Allergy and Immunology

2006 NIAID/NIH Expert Panel on Food Allergy

2006-2009 Member, SPR E. Mead Johnson Award Selection Committee

2007 NIAID National Allergy and Infectious Disease Advisory Council

2008 Reviewer, The Center for Scientific Review National Institutes of Health, Small Business Innovation Research (SBIR), Small Business Technology Transfer Research (STTR)

2008 NIH/FDA Panel on Food Allergy

2010-2020 PI, The NI(FARE) Center H/NIAID Atopic Dermatitis Research Network

2012-2013 Member, World Allergy Organization (WAO). Special Committee on Skin Allergy

2012 Member, AAAAI Advisory Committee on Strategic Initiatives

2012 NIH/NIAID National Allergy and Infectious Disease Advisory Council

2013-present NIH/NIAID Immune Tolerance Network, Steering Committee

2014-present NIAID, Immune Tolerance Network, Allergy Steering Committee

2015 Chairman, The NIH/NIAID Atopic Dermatitis Research Network Steering Committee

2016 Chairman of DSMB, Aimmune Clinical Trial of *Peanut Allergy Oral Immunotherapy Study of AR101 in Children and Adults*

2016 FDA Pediatric Guidance for Atopic Dermatitis

2016-present Chairman, Aimmune Data Safety and Monitoring Committee on the ARC003 protocol, an international, multicentered, randomized, double-blind, placebo-controlled study of the efficacy and safety of AR101 in peanut allergic children and adults

2017	Member, NIAID Peer Review Committee of PAR-17-254, Lasker Clinical Research Scholars Program
2017	Ad hoc Reviewer for the MOSS Q02 NIAMS Special Emphasis Panel
2019	Ad hoc Reviewer for the NIAMS ACTS Study Section
2022-2026	Arthritis, Connective Tissue and Skin Study Section (ACTS)
2022-2026	Musculoskeletal, Oral and Skin Sciences Integrated Review Group (MOSS)
2022-2026	CENTER FOR SCIENTIFIC REVIEW (CSR)

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

Chinese Allergy Society, Beijing

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

- molecular mechanism” for KAPARD-APAPARI Joint Congress, May 2021
145. Invited speaker, “The Role of Infection in Atopic Dermatitis” for Long Island Allergy and Asthma Society, September 2021
 146. Invited speaker on “Modern Treatments for Moderate to Severe Atopic Dermatitis” and “7 for 11: Hot Topics in Dermatology” for ACAAI, November 2021
 147. Invited FIT Symposium speaker on “Atopic Dermatitis: Tips and Tricks to ‘Crack’ Difficult Cases – Allergy,” AAAAI, February 2022
 148. Invited Chrysalis Project Program speaker on “Atopic Dermatitis,” AAAAI, February 2022
 149. Invited speaker for “A New Age of Allergic Skin Diseases” on “Precision Approaches to Allergic Skin Diseases,” AAAAI, February 2022

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) (NCT02910791). "Role of bacterial toxins in human skin diseases." Principal investigator: Donald YM Leung, MD, PhD, 7/1/92-6/30/95. Total Direct Costs: \$317,511.
 15. 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 (1RO1AR41256) (NCT02910791). "Role of bacterial toxins in human skin diseases." Principal investigator: Donald YM Leung, MD, PhD, 7/1/95-6/30/00. Total Direct Costs: \$572,587.
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) (NCT02910791). "Role of bacterial toxins in human skin diseases." Principal investigator: Donald YM Leung, MD, PhD, 6/01/00-5/31/05. Total Direct Costs: \$705,000.
45. Zymogenetics. Role of IL-31 in Atopic Dermatitis. Principal Investigator: Donald YM Leung, MD, PhD, 6/21/04-6/20/05. Total Direct Costs: \$102,000.
46. Genentech, Inc. Protocol Q2788G. Role of Xolair in Peanut Allergy. Site Leader: Donald YM Leung, MD, PhD, 8/10/04-8/9/06. Total Direct Costs: \$155,414.
47. NIH/NIAMS 5 R21 AR051634-02. Principal Investigator, Donald YM Leung. "Immunomodulation of vaccinia-induced antimicrobial peptides", 4/01/04-5/31/06. Total Direct Costs:
48. NIH, National Center for Research Resources (3M01 RR00051). Principal investigator: Richard Krugman, MD "General Clinical Research Center". Associate Program Director: Donald YM Leung, MD, PhD, 12/1/01-11/30/06. Total Direct Costs: \$8,500,000.
49. NIH/NIAID (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) (NCT02910791). "Role of bacterial toxins in human skin diseases." Principal investigator: Donald YM Leung, MD, PhD, 08/01/05-07/31/10. Total Direct Costs: \$1,125,000.
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) (NCT02910791). Role of bacterial toxins in human skin diseases. Principal Investigator: Donald YM Leung, MD, PhD, 8/01/10-7/31/15. Total Direct Costs: \$980,100.
63. CoFar/NIH (NCT00461097) Oral desensitization to egg with subsequent induction of tolerance, egg allergy. PI: Donald Leung, MD, PhD. 12/2010 – 12/2013.
64. NIH/NIAID (NCT01518478) ADRN - An open label study to assess variability in immune response to Fluzone®. PI: Donald Leung, MD, PhD. 11/2011 – 3/2012.
65. 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.

66. NIH/NIAID (NCT01429311) ADRN - Interferon Responses in Eczema Herpeticum - Investigation of Reduced Interferon Responses in Peripheral Blood Mononuclear Cells of Participants With Atopic Dermatitis and a History of Eczema Herpeticum (ADRN-01). PI: Donald Leung, MD, PhD. 4/2011 – 1/2016.
67. NIH/NIAID (NCT01494142) ADRN - Registry for the Atopic Dermatitis Research Network (ADRN – 02). PI: Donald Leung, MD, PhD. 8/2011 – 2/7/2018.
68. 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.
69. 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.
70. 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.
71. NIH/NIAID (NCT01737710) ADRN - A Randomized Open Label Mechanistic Study in Atopic Dermatitis to Assess the Immunogenicity of Fluzone® Intradermal and Intramuscular Vaccines. PI: Donald Leung, MD, PhD. 10/2012 – 5/2013.
72. CoFar/NIH (NCT01904604) Peanut Epicutaneous Phase II Immunotherapy Clinical Trial. PI: Donald Leung, MD, PhD. 9/2013 – 8/21/2018.
73. 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.
74. FARE Network Center of Food Allergy Excellence. Director: Donald Leung, MD, PhD. 7/1/15-6/30/16; Total Direct Costs: \$125,000.
75. 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.
76. 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.
77. MedImmune. Epidermal Signatures in Atopic Dermatitis. PI: Donald Leung, MD, PhD. 2/1/16-1/30/19. Total Direct Costs: \$350,000.
78. Pfizer (W11215023) Rheuma Derma IBD. Principal Investigator: Donald YM Leung, MD, PhD. 7/1/16-12/30/18. Total Direct Costs: \$108,089.
79. DBV Pepites (14366). Principal Investigator: Donald YM Leung, MD, PhD. 4/4/16-4/3/18. Total Direct Costs: \$42,143.
80. AstraZeneca Pharmaceuticals (AZD7624) Co-principal Investigator: Donald YM Leung, MD, PhD; Co-Investigator: Elena Goleva, PhD. Expires 12/31/18.
81. Incyte Corporation. An Open Label Pilot Pharmacokinetic Study of INCB018424 Phosphate Cream in Pediatric Subjects with atopic dermatitis. PI: Donald YM Leung, MD, PhD. Total direct costs: \$43,691. July 2017-present
82. FARE Network Center of Food Allergy Excellence. Director: Donald Leung, MD, PhD. 7/1/16-6/30/18; Total Costs: \$234,000.
83. NIH/NCRR (UL1RR025780). CCTSI -Clinical Translational Research Center. Principal Investigator: Ron Sokol, MD; Co-Investigator: Donald YM Leung, MD, PhD 11/1/13-4/30/18. Total Direct Costs: \$3,796,301.
84. 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.

85. NIH/NIAID (NCT02115399) ADRN Barrier/Immunoprofiling Exploratory Pilot Study (ADRN-04). PI: Donald Leung, MD, PhD. 4/2014 – 6/2015.
86. NIH/NIAMS (5R01AR41256-25) (NCT02910791). Role of Bacterial Toxins in Human Skin Diseases. Principal Investigator: Donald YM Leung, MD, PhD, 4/1/16-3/31/21. Total Direct Costs: \$1,334,011.
87. NIH/NIAID (1UM2AI130836-02) New Horizons in the Prevention and Treatment of Food Allergy. PI: Robert Wood; Site PI: Donald Leung, MD, PhD. 03/1/17- 2/29/24. Total Direct Costs: \$174,597.
88. 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.
89. NIAID/NIH (5U19AI117673-05) Overall Atopic Dermatitis Research Network. PI and Project Leader: Donald YM Leung, MD, PhD, 4/1/15-3/31/21. Federal Direct Costs: \$6,744,187.
90. NIAID (NCT03168113) ADRN - ADRN-10: Atopic Dermatitis and Food Allergy - Skin Barrier in Childhood Atopic Dermatitis With and Without Food Allergy (ADRN-10). PI: Donald Leung, MD, PhD. 6/12/2017 – 1/31/2018.
91. NIH/NIAMS (5R01AR41256) (NCT02910791). Role of Bacterial Toxins in Human Skin Diseases. Co-Principal Investigator: Donald YM Leung, MD, PhD, 4/1/16-3/31/21. Total Direct Costs: \$208,888.
92. National Jewish Health (NCT04606615) ADRN 3 CRC - Skin Barrier Abnormalities and Oxidative Stress Response. PI: Donald Leung, MD, PhD. Co-I: Elena Goleva, PhD 10/16/2020 – 12/31/2022.
93. NIAID (NCT03151148) ADRN - Targeted Microbiome Transplant in Atopic Dermatitis. PI: Donald Leung, MD, PhD. 9/28/2017 – 6/7/2019.
94. NIH/NIAID (1UM2AI30836) New Horizons in the Prevention and Treatment of Food Allergy. PI: Robert Wood; Site PI: Donald Leung, MD, PhD. 03/1/17- 2/29/24. Total Direct Costs: \$858,465.
95. NIH/NCATS (UL1TR002535) CCSTI-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: \$410,000.
96. NIH/NIAID (5UM1A1109565-07) (NCT04226092) Pre-SunBEAm Pilot Study 1: Comparative Assessment of TEWL Measurements from AquaFlux vs. Handheld GPSkin Pro in Young Children with and without AD. Principle Investigator: Donald YM Leung MD, PhD. 2/1/20-6/30/20. \$19,127.
97. NIH/NIAID (5UM1A1109565-06) (NCT04180644) Pre-SunBEAm Pilot Study 2: Evaluation of novel skin tape transcriptome methods in children with atopic dermatitis and healthy controls. Principle Investigator: Donald YM Leung MD, PhD. 1/1/20-6/30/20. \$85,829.
98. NIH/NIAID (1U01AI152037-01) Atopic Dermatitis Research Network (ADRN) Clinical Research Center. PI: Elena Goleva, PhD and Co-Principal Investigator: Donald YM Leung, MD, PhD. 4/10/2020 – 03/31/2027. Federal Direct Costs: \$200,999.
99. NIAMS/NIH (1U01AR077511-01) Identification of pathways to mitigate Immune-Related Adverse Events with Cancer Immunotherapy. Principle Investigator: Jeffrey A Kern, MD, Donald YM Leung MD, PhD, and Mario Lacouture. 3/01/2020 – 02/28/2025. Federal Direct Costs: \$457,971.

100. NIH/NIAMS (5R01AR41256-27) (NCT02910791) The Role of Bacterial Toxins in Human Skin Disease. PI: Elena Goleva, PhD and Co-Principal Investigator: Donald YM Leung, MD, PhD. 7/17/1992 – 03/31/2021. Federal Direct Costs: \$208,888.
101. NIAID/NIH (1UM1AI151958-01) Atopic Dermatitis Research Network Leadership Center. Principal Investigator: Donald YM Leung, MD, PhD. 4/10/20 – 3/31/27. Federal Direct Costs: \$1,945,211.
102. NIAID/NIH (3UM1AI151958-01S1) ADRN LC – Supplement – COVID-19. Principal Investigator: Donald YM Leung, MD, PhD. 4/30/20 – 3/31/21. Total Direct Costs: \$1,869,010.
103. Genentech (CoFAR11/LM40767-JHU) Supplement to New Horizons in the Prevention and Treatment of Food Allergy. PI: Robert Wood; Site PI: Donald Leung, MD, PhD. 3/1/20 – 2/28/21. \$174,597.
104. NIH/NIAID (5UM1AI130780-04) CoFAR Clinical Research Unit. Principal Investigator: Donald YM Leung, MD, PhD. 3/1/17-2/29/24. Federal Direct Costs: \$148,264.
105. MedImmune LLC (NCT02680405) Epidermal Signatures in Patients with Atopic Dermatitis. PI: Donald Leung, MD, PhD. 4/2016 – 12/2020.
106. NIH/NIAID (1R01AI147462-01A1) SEAL (Stopping Atopic dermatitis and Allergy) Study: Prevent allergy by enhancing the skin barrier. Co-Principal Investigator: Donald YM Leung, MD, PhD. 08/14/2020 – 05/31/2027. \$788,494. Clinical Trial number: NCT03742414.
107. ITN/NIH/NIAID (2UM1AI109565-08) (NCT04761822) Systemic Allergic Reactions to SARS-CoV-2 Vaccination. PI: Gerald Nepom, MD, PhD; Site PI: Donald Leung, MD, PhD. 10/01/2021 – 09/30/2023. Total Direct Costs: \$585,150.
108. Pharma-Incyte (NCT03745638) TRuE AD1 - An Efficacy and Safety Study of Ruxolitinib Cream in Adolescents and Adults With Atopic Dermatitis. PI: Donald Leung, MD, PhD. 12/20/2018 – 12/1/2020.
109. NIAID/Rho Federal Systems Division, Inc. (NCT03038932) Etiology of Eczema Herpeticum (EH). PI: Donald Leung, MD, PhD. 2/22/2017 – 11/24/2020.
110. Pharma-Incyte (NCT03257644) A Pharmacokinetic Study of Ruxolitinib Phosphate Cream in Pediatric Subjects With Atopic Dermatitis. PI: Donald Leung, MD, PhD. 9/21/2017 – 10/7/2020.
111. NIAID/Regeneron Pharmaceuticals/Sanofi/Atopic Dermatitis Research Network/Rho Federal Systems Division, Inc. (NCT03389893) Effect of Dupilumab (Anti-IL4R α) on the Host-Microbe Interface in Atopic Dermatitis. PI: Donald Leung, MD, PhD. 1/4/2018 – 6/14/2021.
112. Sanofi (NCT04718870) Dupilumab-PEdiatric Skin Barrier Function and Lipidomics Study in Patients With Atopic Dermatitis (PELISTAD). PI: Donald Leung, MD, PhD. 01/22/2021 - 08/12/2022. Total Direct Costs: \$1,407,589.
113. CoFAR/NIH (NCT03881696) Omalizumab as Monotherapy and as Adjunct Therapy to Multi-Allergen OIT in Food Allergic Participants (OUtMATCH). PI: Donald Leung, MD, PhD. 7/22/2019 – 12/2023.
114. Genentech (COFAR-ML-40767-JHU-03) Omalizumab as Monotherapy and as Adjunct Therapy to Multi-Allergen OIT in Food Allergic Participants (OUtMATCH). PI: Donald Leung, MD, PhD. 3/01/2020 – 02/29/2024. Total Direct Costs: \$174,597.
115. CoFar/NIH/NIAID/ Rho Federal Systems Division, Inc. (NCT04798079) Systems Biology of Early Atopy. PI: Donald Leung, MD, PhD. 3/18/2021 – 6/2027.
116. National Jewish Health () Hand Sanitizer Effects on the Skin Barrier. PI: Donald Leung, MD, PhD. Co-I: Jessica Hui, MD. 12/1/2020 – 8/20/2021.

117. National Jewish Health (NCT04198753) Skin characteristics of food allergic pediatric patients with and without history of eczema. PI: Donald Leung, MD, PhD. Co-I: Christine Cho. 1/23/2020 – 10/6/2020.
118. National Jewish Health (NCT04445298) Skin Barrier Assessment in Pregnancy and at Birth. PI: Donald Leung, MD, PhD. Co-I: Jessica Hui. 8/3/2020 – 7/1/2022.
119. Sanofi (NCT04447417) Dupilumab Skin Barrier Function Study in Atopic Dermatitis (BALISTAD). PI: Donald Leung, MD, PhD. 7/16/2020 – 6/2021. Total Direct Costs: \$988,849.

XI. **BIBLIOGRAPHY (Selected)**

A. **Peer reviewed journal articles (H index = 119)**

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.
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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.
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9. Twarog FJ, **Leung DYM**. Anaphylaxis to a component of isoetharine (sodium bisulfite). JAMA. 1982;248(16):2030-1. PMID: 7120631.
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- 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.
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 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.
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