

HONORABLE STEVE KAGEN, M.D.

HIGHLIGHTS

- * Public Service – [United States House of Representatives](#). (2007 – 2010)
- * Authored America’s first law [banning discrimination against citizens with pre-existing medical conditions](#) to guarantee access to health care is a Civil Right – not a privilege.
- * Patent for [KagenAir](#) – a mobile digital health app with artificial intelligence. Answer a few questions and KagenAir shows you why you feel the way you do, and delivers coupons directly to your phone from local pharmacies for products to help you feel better. (2019)
- * Exclusive CNN Allergy Consultant (1995 – 2002)
- * EPA Children's Environmental Health Recognition Award for creating [The Allergy Family® Guide](#) – the nation’s first classroom-ready asthma and allergy education program for 5th grade students and their families.
- * Voted by Wisconsin physicians as one of the “Best Doctors in America”.
- * Created first test-yourself test for AIDS in 1983 and over 100 diagnostic tests for allergy.
- * Created [National Pollen Network®](#) and its associated educational website.
- * Created the [Sensitometer® test](#) App to measure how sensitive you are to changes inside and outside of your body.
- * Past Chairman of the Allergen Standardization Committee of the American Academy of Allergy, Asthma, and Immunology.

ALLERGY and ASTHMA RESEARCH

- * Patents for house dust Mite Allergen and AI Software in the KagenAir app
- * Standardized Allergens used in Allergen Immunotherapy
- * Developed new Venom Immunotherapy technique for Bee Sting Allergy
- * Discovered and sequenced new Insect Allergens (Lake Fly, River Fly)
- * First in the world to Clone + Express an allergenic protein in bacteria
- * Only clinic in North America with polymerized ragweed and grass vaccines proven to be the safest allergy injection treatments (1996 – 2006)
- * Discovered New Allergens in frog, buckwheat, eggplant, almond, and spices
- * Discovered Cross-Reactive Allergens between foods and rubber latex
- * Discovered *Helicobacter pylori* bacteria may cause Hives
- * Discovered a possible cause of Crohn's Disease (Copepods)
- * Demonstrated Dust Mite allergen extracts do not contain Prion proteins
- * Only Pollen + Mold Spore Monitoring Station in NE Wisconsin (1992 – 2020)

EDUCATION

Undergraduate	University of Wisconsin – Madison, WI B.S. with Honors in Molecular Biology 1972
Medical School	University of Wisconsin School of Medicine Madison, WI 1972 -1976
Training	Northwestern University School of Medicine, Chicago, IL Internal Medicine 1976 -1979
Fellowship	Medical College of Wisconsin, Milwaukee, WI Allergy – Immunology 1979 -1981

BOARD CERTIFICATION

American Board of Internal Medicine	September 1979
American Board of Allergy & Immunology	October 1981
Diagnostic Laboratory Immunology	October 1988

UNIVERSITY AFFILIATIONS

Assistant Clinical Professor, Division of Allergy & Clinical Immunology
Department of Medicine, Medical College of Wisconsin, Milwaukee, WI

PROFESSIONAL SOCIETIES

Fellow, American Academy of Allergy, Asthma & Immunology
Fellow, American College of Allergy, Asthma & Immunology

ALLERGY-IMMUNOLOGY SPECIALTY COMMITTEES

American Academy of Allergy, Asthma & Immunology:
Insect Allergy Committee Latex Allergy Committee
Aerobiology Committee
Allergen Standardization Committee, Chairman

BOARD OF DIRECTORS

Joint Council of Allergy, Asthma and Immunology (1988 – 1992)

PROJECTS

Created www.KagenAir.com – a mobile App that enables people to see how weather affects their health.
Created www.Sensitometer.com and the Sensitometer[®] test.
Authored “Helpful Hints for Allergy Sufferers” on Kleenex Packages.
Authored the Allergy Relief Guide.
Founded the National Pollen Network[®] NPN[®].
Created Aeroallergen Animations: computer animations of North American pollens and mold spores.
Author of *The Allergy Family[®] Guide*: An educational 5th grade school program about allergy and asthma.
Created *The Aeroallergen PhotoLibrary[™] of North America*
A website-based audio program focused on airborne allergens at www.Allernet.net

PATENTS

[KagenAir](#) (2019) patented artificial intelligence digital health software that detects why you feel the way you do, and delivers coupons to your phone for products to help you feel better.

Dust Mite Allergen (1993) U.S. patent for discovering the major allergen in dust mite *L. destructor*.

FOX CITIES CHILDREN'S MUSEUM

Developed The Allergy Arcade™ in Appleton, Wisconsin

MARKETING CONSULTANT

CNN, CNN Interactive, CNN Headline News (1995 - 2002), Kimberly-Clark, Johnson & Johnson, 3M, Baxter, SC Johnson, Marion Merrel Dow, Smith & Nephew.

THE WEATHER CHANNEL

Dr. Kagen provided daily national pollen and mold graphics to The Weather Channel, educating the public about the importance of aeroallergens as causes of asthma, sinus headaches and hay fever.

ALLERNET.COM

Created [Allernet.com](#)® - a website designed to provide the general public with useful allergy and asthma information along with referral services to Certified allergy specialists throughout the United States.

DISTINCTIONS

- * First physician in Wisconsin Board Certified in Diagnostic Laboratory Immunology.
- * First Allergy + Asthma specialist elected to U.S. House of Representatives.

BEST DOCTOR IN AMERICA

Voted by Wisconsin physicians as one of the "Best Doctors in America"

AWARDS

- 1996 Founder's Award Fox Cities Children's Museum
- 2004 Community Outreach Award from the American Academy of Allergy, Asthma and Immunology for The Allergy Family Guide® - a 5th grade allergy and asthma education program.
- 2005 Environmental Protection Agency's 2005 Children's Environmental Health Recognition Award for The Allergy Family Guide, for "protecting children from environmental risks, fundamental to making the world a healthier place, now and for future generations."
- 2005 Abstract of Distinction at Federation of Clinical Immunology Societies In 2005 for "Superior safety of polymerized allergen vaccines: Zero systemic reactions during 55,000 injections of polymerized ragweed and grass vaccines in 500 allergy patients. Clin Immunol 2005; S1:55.

AUTHOR

The Aeroallergen PhotoLibrary of North America.
Steve Kagen, M.D., Walter Lewis, PhD, Estelle Levetin, PhD. (2004)
Allergy InsideOut® (2004)
The Allergy Family® Guide (2004)

FEDERAL LEGISLATIVE ACCOMPLISHMENTS 2009 - 2010

DAY 1	JANUARY 20, 2009		INAUGURATION DAY – PRESIDENT OBAMA
DAY 2	JANUARY 21, 2009		TRANSPARENCY GUIDELINES
DAY 3	JANUARY 22, 2009		OBAMA ENDS BAN ON FUNDING FOR EDUCATION ON REPRODUCTION
DAY 10	JANUARY 29, 2009	1	LILLY LEDBETTER FAIR PAY ACT SIGNED INTO LAW
DAY 16	FEBRUARY 4, 2009		LIMIT BAILOUT EXECUTIVE PAY
DAY 16	FEBRUARY 4, 2009	2	CHILDREN'S HEALTH INSURANCE PLAN SIGNED INTO LAW
DAY 21	FEBRUARY 9, 2009		OBAMA INVOKES STATE SECRETS PRIVILEGE - CIA CASE RE “ EXTRAORDINARY RENDITION ”
DAY 29	FEBRUARY 17, 2009	3	AMERICAN RECOVERY AND REINVESTMENT ACT SIGNED INTO LAW
DAY 39	FEBRUARY 27, 2009		OBAMA PLEDGES END TO U.S. INVOLVEMENT IN IRAQ COMBAT MISSIONS BY AUGUST 31, 2010
DAY 49	MARCH 9, 2009		STEM CELL RESEARCH - LIFTS RESTRICTIONS
DAY 60	MARCH 20, 2009	4	SMALL BUSINESS ACT TEMPORARY EXTENSION ACT SIGNED INTO LAW
DAY 64	MARCH 24, 2009		MORE TROOPS TO MEXICAN BORDER
DAY 67	MARCH 27, 2009		17,000 ADDITIONAL TROOPS TO AFGHANISTAN AND \$1.5 BILLION IN AID TO PAKISTAN
DAY 70	MARCH 30, 2009	5	OMNIBUS PUBLIC LANDS MANAGEMENT ACT SIGNED INTO LAW
DAY 92	APRIL 21, 2009	6	EDWARD KENNEDY SERVE AMERICA ACT SIGNED INTO LAW
DAY 121	MAY 20, 2009	7	FRAUD ENFORCEMENT AND RECOVERY ACT SIGNED INTO LAW
DAY 121	MAY 20, 2009	8	HELPING FAMILIES SAVE THEIR HOMES ACT
DAY 123	MAY 22, 2009	9	WEAPONS SYSTEMS ACQUISITION REFORM ACT SIGNED INTO LAW
DAY 123	MAY 22, 2009	10	CREDIT CARD ACCOUNTABILITY, RESPONSIBILITY AND DISCLOSURE (CARD) ACT OF 2009 SIGNED INTO LAW

DAY 154	JUNE 22, 2009	11	FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT SIGNED INTO LAW
DAY 156	JUNE 24, 2009	12	SUPPLEMENTAL APPROPRIATIONS ACT OF 2009 SIGNED INTO LAW (C.A.R.S. ACT AND MILITARY FUNDING IRAQ AND AFGHANISTAN ACTIONS)
DAY 199	AUGUST 6, 2009	13	CASH FOR CLUNKERS EXTENSION ACT SIGNED INTO LAW
DAY 235	SEPTEMBER 11, 2009		TARIFFS IMPOSED ON CHINESE TIRES
DAY 239	SEPTEMBER 15, 2009		NEW C.A.F.E. STANDARDS 35.5 MPG by 2016
DAY 249	SEPTEMBER 25, 2009		IRAN'S SECRET NUCLEAR FACILITY REVEALED
DAY 276	<u>OCTOBER 22, 2009</u>	14	VETERAN HEALTH CARE REFORM AND TRANSPARENCY ACT SIGNED INTO LAW
DAY 282	OCTOBER 28, 2009	15	HATE CRIMES ACT SIGNED INTO LAW
DAY 294	<u>NOVEMBER 7, 2009</u>	16	HEALTH CARE REFORM BILL PASSES HOUSE
DAY 291	NOVEMBER 6, 2009	17	EXTENSION OF UNEMPLOYMENT BENEFITS + HOMEBUYER TAX CREDIT SIGNED INTO LAW
DAY 316	<u>DECEMBER 1, 2009</u>		OBAMA ESCALATES AFGHANISTAN WAR 30,000 MORE SOLDIERS TO BE DEPLOYED
DAY 326	<u>DECEMBER 11, 2009</u>	18	WALL STREET REFORM AND CONSUMER PROTECTION ACT OF 2009 PASSES HOUSE
DAY 330	<u>DECEMBER 15, 2009</u>	19	JOBS for MAIN STREET ACT PASSES HOUSE
DAY 319	DECEMBER 24, 2009		HEALTH CARE REFORM BILL PASSED in SENATE
DAY 366	JANUARY 21, 2010		CITIZENS UNITED vs. FEC No limits on corporate campaign spending. Supreme Court Decision: 5 (Kennedy, Roberts, Thomas, Alito, Scalia) to 4 (Stevens, Breyer, Ginsburg, Sotomayor)
DAY 380	<u>FEBRUARY 4, 2010</u>	20	PAY-AS-YOU-GO Mandatory Rule passed by House to contain federal spending and balance our budgets.
DAY 422	<u>MARCH 18, 2010</u>	21	HIRING INCENTIVES TO RESTORE EMPLOYMENT Tax credits for small businesses who hire people.
DAY 427	<u>MARCH 23, 2010</u>	22	PATIENT PROTECTION AND AFFORDABLE CARE ACT SIGNED INTO LAW.
DAY 434	<u>MARCH 30, 2010</u>	23	HEALTH CARE AND EDUCATION AFFORDABILITY ACT OF 2010 SIGNED INTO LAW

DAY 458	<u>APRIL 23, 2010</u>	24	CAREGIVERS AND VETERANS OMNIBUS HEALTH SERVICES ACT OF 2010 SIGNED INTO LAW
DAY 484	MAY 19, 2010		KAGEN ASKS BP TO DEPOSIT \$25 BILLION INTO THE U.S. TREASURY TO RESTORE THE GULF ECONOMY AND ENVIRONMENT
DAY 477	MAY 10, 2010		ELENA KAGAN NOMINATED TO SUPREME COURT
DAY 484	MAY 17, 2010		DANIEL PEARL FREEDOM OF PRESS ACT SIGNED INTO LAW – HUMAN RIGHTS
DAY 493	MAY 28, 2010	25	THE AMERICAN JOBS AND CLOSING TAX LOOPHOLES ACT OF 2010 – PASSED IN HOUSE
DAY 523	JUNE 25, 2010		MEDICARE PAY EXTENSION – SIGNED INTO LAW
DAY 529	JULY 1, 2010	26	IRAN SANCTION ACT – SIGNED INTO LAW
DAY 549	JULY 21, 2010	27	WALL STREET REFORM ACT - SIGNED INTO LAW
DAY 550	JULY 22, 2010	28	UNEMPLOYMENT BENEFITS EXTENSION ACT SIGNED INTO LAW
DAY 557	JULY 27, 2010	29	TRIBAL LAW ACT – SIGNED INTO LAW
DAY 569	AUGUST 10, 2010	30	AID TO STATES ACT – SIGNED INTO LAW
DAY 570	AUGUST 11, 2010	31	MANUFACTURING ENHANCEMENT ACT SIGNED INTO LAW
DAY 572	AUGUST 13, 2010	32	BORDER SECURITY ACT – SIGNED INTO LAW
DAY 616	SEPT. 11, 2010	33	SMALL BUSINESS LENDING FUND ACT SIGNED INTO LAW (Perlmutter-Kagen-Klein Amortization Amendment passed in House but was removed in Senate bill.)
DAY 688	DECEMBER 8, 2010	34	CLAIMS RESOLUTION ACT - SIGNED INTO LAW
DAY 697	DECEMBER 17, 2010	35	EXTENSION OF TAX CUTS + UNEMPLOYMENT BENEFITS ACT SIGNED INTO LAW
DAY 702	DECEMBER 22, 2010	36	REPEAL OF DON'T ASK, DON'T TELL SIGNED INTO LAW
DAY 702	DECEMBER 22, 2010		START TREATY RATIFIED.

SCIENTIFIC PUBLICATIONS

Interleukins

1. Soluble mediators of cellular immunity: partial characterization of Blastogenic Factor. Honors Thesis, University of Wisconsin, 1972

Marijuana Asthma

2. Kagen SL, Fink JN, Sohnle P and Kurup VP. Marijuana smoking as a source of Aspergillus exposure. In Proceedings of the 37th Annual Meeting of the American Academy of Allergy, March 1981, San Francisco, CA, p. 63.

3. Kagen SL. Aspergillus: an inhalable contaminant of marijuana. *New Eng J Medicine*. 1981;304:483-84.

Fabric Softener

4. Kagen SL, Fink JN, Schlueter DP, et al. Anti-Induced Asthma static agent as a cause of small airway disease. In Proceedings of the 37th Annual Meeting of the American Academy of Allergy, March 1981, San Francisco, CA, P. 30.

Hypersensitivity Pneumonitis

5. Kagen SL, Fink JN, Schlueter DP, Kurup VP, Pneumonitis and Fruchtman R. *Streptomyces albus*: A new cause of hypersensitivity pneumonitis. *J Allergy Clin Immunol*. 1981;68:295-99.

Allergic Aspergillosis

6. Kagen SL, Cohen SH and Kurup VP. Ketoconazole therapy of allergic Broncho-pulmonary aspergillosis. Presented at the International Congress of Allergology and Clinical Immunology. London, England, 1982.

Diagnostic Allergy

7. Cohen SH and Kagen SL. Cimetidine and allergy skin testing. *Annals of Internal Med*. 1981;96:787.

Fabric Softener Lung

8. Kagen SL, Schlueter DP, Cohen SH. Induction of small airways disease by a fabric softener.

Marijuana Asthma

9. Kagen SL, Kurup VP, Sohnle PG, and Fink JN. Marijuana smoking and fungal sensitization, *J Allergy Clin Immunol*. 1983;71:389-93.
Smoking & Asthma

10. Kurup VP, Resnick A, Kagen SL, Cohen SH and Fink JN. Allergic fungi and actinomycetes in smoking materials and their health implications. *Mycopathologia*. 1983;82:61-4.

AIDS

11-A. Nunnink JC, Wiedmeyer J, Hank J, Kagen SL and Sondel PS. Characterization of a possible suppressive factor in AIDS. UCLA AIDS Symposium, Salt Lake City, Utah, 1983.

11-B. Wiedmeyer J, Hank J, Nunnink C, Kagen S, Reitnauer P, Chen B and Sondel PS. Suppressive activity in the serum of individuals at risk for acquired immunodeficiency syndrome. Fed Proc 1984;43:19-21.

Insect Allergy

12. Kagen SL, Yunginger J, and Johnson R. Lake fly allergy: Incidence of chironomid sensitivity in an atopic population. In Proceedings of the 40th Annual Meeting of the American Academy of Allergy & Immunology, March 1984, Chicago, IL.

13. Kagen SL. Inhalant insect allergy. In Monograph on Insect Allergy, 1986; pp 93-102. (Levine MI and Lockey RF Eds) D. Lambert Associates, Pittsburgh, PA.

Occupational Insect Allergy & Asthma

14. Kagen SL, Yunginger J and Wynn SR. Occupational respiratory allergy due to caddisfly aeroallergens. J Allergy Clin Immunol. 1986;77:169

Insect Allergen Immunotherapy

15. Kagen SL, Yunginger J, Wynn SR and Swanson MC. Midge-specific IgE and IgG responses during lake fly desensitization: An open trial. J Allergy Clin Immunol. 1986;77:140.

16. Kagen SL. Inhalant allergy to arthropods: Insects, arachnids, and crustaceans. Clin Rev Allergy. 1990; 8:99-125.

Caddisfly Allergens

17. Kagen SL, Koshte V, and Aalberse R. Cross-reactivity of caddisfly-specific IgE antibodies with arthropoda and mollusca. Allergy Proceedings. 1988;9:289.

Cross-Reactivity

18. Koshte VL, Kagen SL and Aalberse R. Cross-reactivity of IgE antibodies to caddisfly with arthropoda and mollusca. J Allergy Clin Immunol. 84:174-83, 1989.

Cloning Insect Allergens

19. Kagen SL and Siebert P. Cloning of insect aeroallergens: midge hemoglobins. Allergy Proceedings. 1988;9:281.

Rapid Desensitization to Venom

20. Bernstein D, Mittman RJ, Kagen SL, Korbe BS and Bernstein IL. Safety and efficacy of rapid venom immunotherapy (RVIT) for treatment of Hymenoptera-sensitive patients. J Allergy Clin Immunol. 1989;83:227.

Fire Ant Allergy

21. Kagen SL and Muthiah R. Fire ant anaphylaxis: Allergen characterization and partial amino acid sequence of Sol i II and Sol i III. *Ann Allergy*. 1990;64:75.

Guidelines for Diagnosis of Occupational Lung Disease

22. Bush R and Kagen SL. Guidelines for the preparation and characterization of high molecular weight allergens used for the diagnosis of occupational lung disease. *J Allergy Clin Immunol*. 1989;84:814-19.

Rapid Desensitization to Venom

23. Bernstein D, Mittman RJ, Kagen SL, Korbee L, Enrione M and Bernstein IL. Clinical and immunologic studies of rapid venom immunotherapy in Hymenoptera-sensitive patients. *J Allergy Clin Immunol*. 1989;84:951-59.

Food Allergens: Buckwheat

24. Muthiah R and Kagen SL. Food Allergens: Characterization of major buckwheat carbohydrate dependent allergens. *J Allergy Clin Immunol*. 1990;85:151.

Insect Allergens: Hemoglobins

25. Kagen SL and Muthiah R. Insect allergens: Characterization and partial sequencing of a caddisfly hemoglobin. *J Allergy Clin Immunol*. 1990;85:152.

Allergen Vaccine Stability

26. Muthiah R and Kagen SL. Allergens as enzymes: Degradation of cat and ragweed allergens by house dust mite allergen extract. *J Allergy Clin Immunol*. 1990;85:151.

27. Kagen SL, Isaacson B and Muthiah R. Polymerized ragweed vaccine: Retention of all epitopes. *J Allergy Clin Immunol*. 1991;87:188.

28. Knoll R, Kagen SL and Muthiah R. Allergens as enzymes: Failure of HSA to protect degradation of grass allergens by mold extracts. *J Allergy Clin Immunol*. 1991;87:188.

Barn Allergy: Storage Mite Allergens

29. Muthiah R, Miller M and Kagen SL. Barn allergy: Isolation and characterization of the major allergens of storage mites: *L. destructor*. *J Allergy Clin Immunol*. 1991;87:326.

Insect Allergy

30. Baur X, Liebers V, Mazur G, Becker WM, Kagen SL, Kawai K. Immunologic cross-reactivity of hemoglobins in the Diptera family Chironomidae. *Allergy* 1991;46:445051.

Fire Ant Allergy

31. Knoll R, Kagen S and Muthiah R. Non-specific reactivity of fire ant whole body extract in the diagnosis of fire ant allergy. *J Allergy Clin Immunol*. 1992;89:51.

Immunization Screen

32. Muthiah R, Kagen S, Hildeman D and Knoll R. New Immunization screen reveals under-immunization of patients attending allergy & asthma clinics. *J Allergy Clin Immunol.* 1992;89:490.

Protective Levels to Fire Ant Venom

33. Kagen S, Muthiah R, Hildeman D, Knoll R and Friedman S. Fire ant anaphylaxis: Initial determination of fire ant-specific IgG antitoxin levels. *J Allergy Clin Immunol.* 1992;89:716.

Allergen Immunotherapy

34. Kagen SL. Other indications for administration of allergy immunotherapy: Insects, fire ants and therapeutic agents. *Immunology and Allergy Clinics of North America.* 1992;12:177-97.

Rapid Venom Immunotherapy

35. Bernstein JA, Kagen SL, Bernstein DI and Bernstein IL. An extended experience indicating that rapid venom immunotherapy (RVIT) is safe for treatment of Hymenoptera (Hym) anaphylaxis. *J Allergy Clin Immunol.* 1993;91:563.

Polymerized Midge Allergen Immunotherapy

36. Knoll R, Kagen SL, Muthiah R and Hildeman. Polymerized midge allergen immunotherapy (PMAIT): clinical reduction in early and late phase reactivity and prevention of rhinitis and asthma morbidity. *J Allergy Clin Immunol.* 1994;93:251.

Polymerized Grass Allergen Immunotherapy

37. Hildeman D, Muthiah R and Kagen SL. Successful polymerized grass allergen immunotherapy (PGAIT): failure of in vitro measurements to correlate with clinical outcomes. *J Allergy Clin Immunol.* 1994;93:251.

Polymerized Ragweed Allergen Immunotherapy

38. Hempel D, Muthiah R, Hildeman D and Kagen SL. Polymerized ragweed allergen immunotherapy (PRAIT): failure of anti-idiotypic antibody (AIA) to predict clinical outcomes. *J Allergy Clin Immunol.* 1994;93:251.

Helicobacter Pylori

39. Zondlo J, Muthiah R, Knoll R and Kagen SL. *Helicobacter pylori* (Hp): a new cause of urticaria (U) and exercise-induced anaphylaxis (EIA) -identification of Hp allergens. *J Allergy Clin Immunol.* 1994;93:220.

Allergen Extract Stability

40. Kagen SL, Muthiah R and Knoll R. Allergens as enzymes: a two-year study of aqueous allergen extract stability and the deleterious effect of mixing allergen extracts together. *J Allergy Clin Immunol.* 1994;93:253.

Frog-induced Anaphylaxis

41. Muthiah R, Kagen SL and Hempel D. Frog-induced anaphylaxis (ANA): isolation and characterization of the major frog allergen, which is cross-reactive with cod parvalbumin. *J Allergy Clin Immunol.* 1994;93:209.

Rapid Venom Immunotherapy

42. Bernstein JA, Kagen SL, Bernstein DI and Bernstein LB. Rapid venom immunotherapy is safe for routine use in the treatment of patients with Hymenoptera anaphylaxis. *Annals of Allergy Asthma Immunol.* 1994;73:423-8.

Flaxseed-Induced Anaphylaxis

43. Muthiah R, Louthain L, Knoll R and Kagen S. Flaxseed-induced anaphylaxis: another cross-reactive carbohydrate food allergen. *J Allergy Clin Immunol.* 1995;95:370.

Helicobacter pylori

44. Kagen S, Zondlo A, Zondlo J and Muthiah R. Helicobacter pylori and allergic disease: characterization of Helicobacter allergens. *J Allergy Clin Immunol.* 1995;95:255.

Insect Allergy

45. Kagen SL and Chapman M. Allergy to inhalants of arthropods: insects and arachnids. In *Monograph on Insect Allergy.* 1995;95:370. (Levine MI and Lockey RF Eds). D. Lambert Associates, Pittsburgh, PA.

Eggplant Anaphylaxis

46. Muthiah R, Zondlo A, Zondlo J and Kagen S. Eggplant anaphylaxis: isolation of the major allergens and demonstration of cross-reactivity with other Solanaceae. *J Allergy Clin Immunol.* 1996;97:334.

Aerobiology

47. Kagen S, Muthiah R, Knoll R, Graphos G and DeStasio B. Aerobiology: Grass pollen forecasting models. *J Allergy Clin Immunol.* 1996;97:217.

Mannose Binding Protein Deficiency

48. Kagen S, Muthiah R and Slupianek J. Mannose binding protein deficiency is more frequent than IgA deficiency. *J Allergy Clin Immunol.* 1997;99:S396

Allergy to Acacia in Synthroid

49. Muthiah R, Kagen S, Zondlo A and Zondlo J. Hidden allergens in medications: Allergy to acacia in Synthroid tablets. *J Allergy Clin Immunol.* 1997;99:S492.

Latex – Food Anaphylaxis

50. Kagen SL and Muthiah R. Latex and Food induced Anaphylaxis: Oregano, Dill, Sage and Carrot Cross-React with Natural Rubber Latex. *J Allergy Clin Immunol.* 1998;101:S208.

Chinchilla Allergy

51. Muthiah R, Yablon B, Reddy, and Kagen S. Chinchilla. Allergy: A new Cause of Animal Hypersensitivity. *J Allergy Clin Immunol.* 1999;103:93.

Anaphylaxis to PPD

52. Kagen S and Muthiah R. Anaphylaxis to PPD: Tuberculosis Skin Test Antigen Atopy. *J Allergy Clin Immunol.* 1999;103:149.

Almonds and Latex Allergy

53. Kagen SL and Muthiah R. Latex, Almond and Tobacco: Cross-Reactive Allergens. *Annals Allergy, Asthma Immunol.* 2000;84:146

Latex and Ginger Cross-React

54. Muthiah R, Peterson A and Kagen SL. Latex and Ginger Allergy. *Annals Allergy, Asthma Immunol* 2000;84:168.

Ladybug Allergy

55. Kagen SL and Muthiah R. Ladybugs: A New Cause of Allergy. *Annals Allergy, Asthma Immunol.* 2000;84:146.

Caddisfly Allergens

56. Muthiah R, Ptachinski K, Ludden D, Kagen SL Insect Allergens: Isolation of Caddisfly Allergens. *J Allergy Clin Immunol.* 2001;107:S14.

Kombu Anaphylaxis

57. Zondlo J, Muthiah R, Kagen S and Kagen M. Kombu Induced Anaphylaxis. *Annals Allergy Asthma Immunol.* 2002;88:118.

Ragweed Pollen in Spring

58. Muthiah R and Kagen S. Ragweed Pollen in the Spring Air. *Annals Allergy Asthma Immunol.* 2003;90:115.

Leaf Mites

59. Muthiah R, Arlian L and Kagen S. Leaf Mites: Viable Sources of Outdoor Aeroallergens. *Annals of Allergy.* 2003;90:115.

Ladybug Allergens

60. Muthiah R and Kagen S. Ladybug Allergy: Sequence of a Major Asian Beetle Allergen. *Annals of Allergy Asthma Immunol.* 2003;90:100.

Copepod Allergens

61. Kagen S, Muthiah R and Breteler K. Copepods: A New Worldwide Source of Allergens. *Annals of Allergy Asthma Immunol.* 2003;90:96.

Slim-Fast® Allergy

62. Muthiah R and Kagen S. Anaphylaxis induced by Slim- Fast: The perils of weight lost in two patients. *Annals of Allergy Asthma Immunol.* 2004;92:P48.

Poisonous Snake Venom Allergens

63. Kagen S and Muthiah R. Poisonous Snake Venom Anaphylaxis vaccination: A case report of a non-physician directed experiment. *Annals of Allergy Asthma Immunol.* 2004;92:72.

Midge Allergen Anaphylaxis

64. Gutin F, Kagen S, Muthiah R, Bahrainwala A. Severe protracted anaphylaxis to midge allergen in a 4 YO boy. *Annals of Allergy Asthma Immunol.* 2004;92:P171.

Allergen Extract Stability

65. Kagen S, Muthiah R, Holinbeck J. A new and safer method for preserving allergen stability in human vaccines. *J Allergy Clin Immunol.* 2004;113;S110P.

Prion Proteins in Allergen Vaccines

66. Kagen S, O'Rourke K, Muthiah R, and Arlian LG. Prion proteins in vaccines intended for human use - mites, human serum albumin and mite colony feeds: No evidence of prion presence. *Annals of Allergy Asthma Immunol.* 2005; 94:175.

“Breakfast Square” Anaphylaxis

67. Kagen S, Muthiah R and Fitzsimmons K. Quaker Oatmeal Breakfast Square-Induced Anaphylaxis. *J Allergy Clin Immunol* 2005;115, Issue 2, S331–S356

Sequences of Copepod Protein Antigens

68. Muthiah R, Kagen S and Burton RS. Copepods: Worldwide sources of allergens - partial sequences of three unique proteins. *J Allergy Clin Immunol* 2005; 115:S91.

Superior Safety of Polymerized Allergen Vaccines

69. Kagen S, Zondlo J, Muthiah R and Kagen M. Superior safety of polymerized allergen vaccines: Zero systemic reactions during 55,000 injections of polymerized ragweed and grass vaccines in 500 allergy patients. 2005. *Clin Immunol.* 2005; S1:55.

Mattress Lung

70. Mohan M, Kagen S, Muthiah R. Mattress Lung: Acrylonitrile-induced Asthma in a Mattress Factory Worker. *J Allergy Clin Immunol.* 2006;117:S98.

Public Policy and Environment

71. Steinberg DG, Kagen SL, Epstein PR, Demain JG, Peden DB, Bernstein JA. Environment, public policy, and human health: implications of current events for the next generation of patients and physicians. *Allergy Asthma Proc.* 2009;30:215-6.
<https://doi:10.2500/aap.2009.09.3239>.

ADHD Medications Inhibit Allergen Skin Testing

72. Kagen M, Nayeri Z and Kagen S. Focalin inhibits allergen and histamine skin testing. *J Allergy Clin Immunol.* 2013;131:AB39.

Elevated Exhaled Nitric Oxide Levels in Eosinophilic Esophagitis Patients

73. Kagen S, Kagen M, Kagen Z and Zondlo J. Elevated Exhaled Nitric Oxide Levels In Eosinophilic Esophagitis Patients With and Without Atopy. *J Allergy Clin Immunol.* 2014;133:AB256.

KagenAir: A New Smartphone Application for Allergy and Asthma

74. Kagen S. Unique Allergy and Asthma Smartphone Application: KagenAir. *Ann Allergy Asthma Immunol.* 2014;114;S-P36.
<https://itunes.apple.com/us/app/kagenair/id923557230>

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