

## HONORABLE STEVE KAGEN, M.D.

### HIGHLIGHTS

- \* Served in [United States House of Representatives](#) from 2007 – 2010.
- \* Authored the nation's first law to [ban discrimination against citizens with pre-existing medical conditions](#) to guarantee that access to healthcare is a Civil Right – not a privilege.
- \* Created [KagenAir](#) – a Cloud based communications platform with secure mobile Telemedicine services, remote patient monitoring and population management software solutions.
- \* Exclusive CNN Allergy Consultant from 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 5<sup>th</sup> grade students and their families.
- \* Voted by Wisconsin physicians as one of the “Best Doctors in America”.
- \* Created the first test-yourself test for AIDS in 1983 and over 100 other diagnostic tests for allergy.
- \* Created [National Pollen Network®](#) and its associated educational website.
- \* Created the [Sensitometer® test](#) App to measure smooth muscle cell reactivity.
- \* Past Chairman of the Allergen Standardization Committee of the American Academy of Allergy, Asthma, and Immunology.

### ALLERGY and ASTHMA RESEARCH

- \* Awarded U.S. Patent for the discovery of a Dust Mite Allergen
- \* Standardized allergen vaccines 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 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 possible cause of Crohn's Disease (Copepods)
- \* Demonstrated Dust Mite vaccines do not contain Prion proteins
- \* Only Pollen + Mold Spore Monitoring Station in NE Wisconsin (1992 – 2016)

## **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

Internship & Residency      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 the [KagenAir™ and Sensitometer™](#) test mobile applications.  
Authored “Helpful Hints for Allergy Sufferers” on Kleenex Packages  
Authored the Allergy Relief Guide  
Founded the National Pollen Network® NPN®  
A National pollen and mold information service with distributions to cable  
and broadcast television and print media.  
Aeroallergen Animations: computer animations of North American pollens  
and mold spores.  
Author, The Allergy Family® Guide: An interactive educational 5th grade  
school program about allergy and asthma.

The Aeroallergen PhotoLibrary™ of North America  
Interactive textbook and CD and website-based audio and slide program  
focused on airborne allergens.

**U.S. PATENT: DUST MITE ALLERGEN**

U.S. patent awarded to Steven L. Kagen, M.D. and R. Muthiah, PhD  
for discovery of the major allergen in dust mite *L. destructor* in 1993.

**FOX CITIES CHILDREN'S MUSEUM**

Developed The Allergy Arcade™ in Appleton, Wisconsin

**MARKETING and MEDICAL CONSULTANT**

CNN (1995 - 2002), Kimberly-Clark, Johnson & Johnson, 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](http://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**

- \* In 1988, Dr. Kagen became one of the first physicians in Wisconsin to be  
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		<b>TRANSPARENCY GUIDELINES</b>
DAY 3	JANUARY 22, 2009		OBAMA ENDS BAN ON FUNDING FOR EDUCATION ON REPRODUCTION
DAY 10	JANUARY 29, 2009	1	<b>LILLY LEDBETTER FAIR PAY ACT</b> SIGNED INTO LAW
DAY 16	FEBRUARY 4, 2009		<b>LIMIT BAILOUT EXECUTIVE PAY</b>
DAY 16	FEBRUARY 4, 2009	2	<b>CHILDREN’S HEALTH INSURANCE PLAN</b> SIGNED INTO LAW
DAY 21	FEBRUARY 9, 2009		OBAMA INVOKES STATE SECRETS PRIVILEGE - CIA CASE RE “ <b>EXTRAORDINARY RENDITION</b> ”
DAY 29	FEBRUARY 17, 2009	3	<b>AMERICAN RECOVERY AND REINVESTMENT ACT</b> SIGNED INTO LAW
DAY 39	FEBRUARY 27, 2009		<b>OBAMA PLEDGES END TO U.S. INVOLVEMENT IN IRAQ COMBAT MISSIONS BY AUGUST 31, 2010</b>
DAY 49	MARCH 9, 2009		<b>STEM CELL RESEARCH - LIFTS RESTRICTIONS</b>
DAY 60	MARCH 20, 2009	4	<b>SMALL BUSINESS ACT TEMPORARY EXTENSION ACT</b> SIGNED INTO LAW
DAY 64	MARCH 24, 2009		<b>MORE TROOPS TO MEXICAN BORDER</b>
DAY 67	MARCH 27, 2009		<b>17,000 ADDITIONAL TROOPS TO AFGHANISTAN AND \$1.5 BILLION IN AID TO PAKISTAN</b>
DAY 70	MARCH 30, 2009	5	<b>OMNIBUS PUBLIC LANDS MANAGEMENT ACT</b> SIGNED INTO LAW
DAY 92	APRIL 21, 2009	6	<b>EDWARD KENNEDY SERVE AMERICA ACT</b> SIGNED INTO LAW

DAY 121	MAY 20, 2009	7	<b>FRAUD ENFORCEMENT AND RECOVERY ACT</b> SIGNED INTO LAW
DAY 121	MAY 20, 2009	8	<b>HELPING FAMILIES SAVE THEIR HOMES ACT</b>
DAY 123	MAY 22, 2009	9	<b>WEAPONS SYSTEMS ACQUISITION REFORM ACT</b> SIGNED INTO LAW
DAY 123	MAY 22, 2009	10	<b>CREDIT CARD ACCOUNTABILITY, RESPONSIBILITY AND DISCLOSURE (CARD) ACT OF 2009</b> SIGNED INTO LAW
DAY 154	JUNE 22, 2009	11	<b>FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT</b> SIGNED INTO LAW
DAY 156	JUNE 24, 2009	12	<b>SUPPLEMENTAL APPROPRIATIONS ACT OF 2009</b> SIGNED INTO LAW (C.A.R.S. ACT AND MILITARY FUNDING IRAQ AND AFGHANISTAN ACTIONS)
DAY 199	AUGUST 6, 2009	13	<b>CASH FOR CLUNKERS EXTENSION ACT</b> SIGNED INTO LAW
DAY 235	SEPTEMBER 11, 2009		<b>TARIFFS IMPOSED ON CHINESE TIRES</b>
DAY 239	SEPTEMBER 15, 2009		<b>NEW C.A.F.E. STANDARDS</b> 35.5 MPG by 2016
DAY 249	SEPTEMBER 25, 2009		<b>IRAN'S SECRET NUCLEAR FACILITY REVEALED</b>
DAY 276	<u>OCTOBER 22, 2009</u>	14	<b>VETERAN HEALTH CARE REFORM AND TRANSPARENCY ACT</b> SIGNED INTO LAW
DAY 282	OCTOBER 28, 2009	15	<b>HATE CRIMES ACT</b> SIGNED INTO LAW
DAY 294	<u>NOVEMBER 7, 2009</u>	16	<b>HEALTH CARE REFORM BILL</b> PASSES HOUSE
DAY 291	NOVEMBER 6, 2009	17	<b>EXTENSION OF UNEMPLOYMENT BENEFITS + HOMEBUYER TAX CREDIT</b> SIGNED INTO LAW
DAY 316	<u>DECEMBER 1, 2009</u>		<b>OBAMA ESCALATES AFGHANISTAN WAR</b> 30,000 MORE SOLDIERS TO BE DEPLOYED
DAY 326	<u>DECEMBER 11, 2009</u>	18	<b>WALL STREET REFORM AND CONSUMER PROTECTION ACT OF 2009</b> PASSES HOUSE
DAY 330	<u>DECEMBER 15, 2009</u>	19	<b>JOBS for MAIN STREET ACT</b> PASSES HOUSE
DAY 319	DECEMBER 24, 2009		<b>HEALTH CARE REFORM BILL</b> PASSED in SENATE

DAY 366	JANUARY 21, 2010	<b>CITIZENS UNITED vs. FEC</b> 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 <b>PAY-AS-YOU-GO</b> Mandatory Rule passed by House to contain federal spending and balance our budgets.
DAY 422	<u>MARCH 18, 2010</u>	21 <b>HIRING INCENTIVES TO RESTORE EMPLOYMENT</b> Tax credits for small businesses who hire people.
DAY 427	<u>MARCH 23, 2010</u>	22 <b>PATIENT PROTECTION AND AFFORDABLE CARE ACT</b> SIGNED INTO LAW.
DAY 434	<u>MARCH 30, 2010</u>	23 <b>HEALTH CARE AND EDUCATION AFFORDABILITY ACT OF 2010</b> SIGNED INTO LAW
DAY 458	<u>APRIL 23, 2010</u>	24 <b>CAREGIVERS AND VETERANS OMNIBUS HEALTH SERVICES ACT OF 2010</b> SIGNED INTO LAW
DAY 484	MAY 19, 2010	<b>KAGEN ASKS BP TO DEPOSIT \$25 BILLION INTO THE U.S. TREASURY TO RESTORE THE GULF ECONOMY AND ENVIRONMENT</b>
DAY 477	MAY 10, 2010	ELENA KAGAN NOMINATED TO SUPREME COURT
DAY 484	MAY 17, 2010	<b>DANIEL PEARL FREEDOM OF PRESS ACT</b> SIGNED INTO LAW – HUMAN RIGHTS
DAY 493	MAY 28, 2010	25 <b>THE AMERICAN JOBS AND CLOSING TAX LOOPHOLES ACT OF 2010</b> – PASSED IN HOUSE
DAY 523	JUNE 25, 2010	<b>MEDICARE PAY EXTENSION</b> – SIGNED INTO LAW
DAY 529	JULY 1, 2010	26 <b>IRAN SANCTION ACT</b> – SIGNED INTO LAW
DAY 549	JULY 21, 2010	27 <b>WALL STREET REFORM ACT</b> - SIGNED INTO LAW
DAY 550	JULY 22, 2010	28 <b>UNEMPLOYMENT BENEFITS EXTENSION ACT</b> SIGNED INTO LAW
DAY 557	JULY 27, 2010	29 <b>TRIBAL LAW ACT</b> – SIGNED INTO LAW
DAY 569	AUGUST 10, 2010	30 <b>AID TO STATES ACT</b> – SIGNED INTO LAW
DAY 570	AUGUST 11, 2010	31 <b>MANUFACTURING ENHANCEMENT ACT</b> SIGNED INTO LAW
DAY 572	AUGUST 13, 2010	32 <b>BORDER SECURITY ACT</b> – SIGNED INTO LAW

DAY 616	SEPT. 11, 2010	33	<b>SMALL BUSINESS LENDING FUND ACT</b> SIGNED INTO LAW (Perlmutter-Kagen-Klein Amortization Amendment passed in House but was removed in Senate bill.)
DAY 688	DECEMBER 8, 2010	34	<b>CLAIMS RESOLUTION ACT - SIGNED INTO LAW</b>
DAY 697	DECEMBER 17, 2010	35	<b>EXTENSION OF TAX CUTS + UNEMPLOYMENT BENEFITS ACT</b> SIGNED INTO LAW
DAY 702	DECEMBER 22, 2010	36	<b>REPEAL OF DON'T ASK, DON'T TELL</b> SIGNED INTO LAW
DAY 702	DECEMBER 22, 2010		<b>START TREATY RATIFIED.</b>

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## **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, Sohnle P, Kurup VP and Fink JN. Aspergillus: An inhalable contaminant of marijuana. *New England Journal of 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 bronchopulmonary 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. 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.

## **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**

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 and Muthiah R. Anaphylaxis associated with eating a Breakfast Square product.

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

### **ADHD Medications Inhibit Allergen Skin Testing**

71. 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**

72. 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**

73. Kagen S. Unique Allergy and Asthma Smartphone Application: KagenAir. Ann Allergy Asthma Immunol. 2014;114;S-P36.

### **Validation of Two New Symptom Outcomes Tests for Asthma and Rhinitis**

74. Kagen SL. Remote monitoring of patients: two new smartphone app symptom severity tests for asthma and allergic rhinitis. J Allergy Clin Immunol. 2016;137:AB185.

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