



**DONALD AND BARBARA  
ZUCKER SCHOOL *of* MEDICINE  
AT HOFSTRA/NORTHWELL®**

**Date Prepared:** October 3, 2022

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**Educational Background**

**Education**

1991 MD	Medicine	Albany Medical College
1986 BS	Industrial and Management Engineering	Rensselaer Polytechnic Institute

**Postdoctoral Training**

1996-1997	Fellow in Critical Care Medicine	NY Presbyterian Hospital Columbia Campus, New York City, New York
1995-1997	Fellow in Clinical Adult and Pediatric Allergy/Immunology	NY Presbyterian Hospital Columbia Campus, New York City, New York
1995-1996	Postdoctoral Research Fellow in Rheumatology/Immunology	NY Presbyterian Hospital Columbia Campus, New York City, New York

1994-1996 Fellow in Pulmonary Diseases  
NY Presbyterian Hospital Columbia Campus, New York City, New York  
1992-1994 Resident in Internal Medicine, Hahnemann University Hospital  
Philadelphia, PA  
1991-1992 Intern, Medicine, Johns Hopkins Bayview Medical Center, Baltimore, MD

### **Professional Experience**

#### **Faculty Academic Appointments**

2022-present Clinical Professor of Occupational Medicine, epidemiology and Prevention and Medicine  
2017-Present Clinical Associate Professor Department of Medicine Donald and Barbara Zucker  
School of Medicine at  
Hofstra/Northwell  
2017-Present Clinical Associate Professor Department of Occupational Medicine  
Epidemiology and Prevention  
Donald and Barbara Zucker  
School of Medicine at  
Hofstra/Northwell  
2017-Present Adjunct Assistant Professor Feinstein Institute for Medical Research  
2014-2017 Clinical Assistant Professor Department of Medicine Donald and Barbara Zucker  
School of Medicine at  
Hofstra/Northwell  
2014-2017 Clinical Assistant Professor Department of Occupational Medicine  
Epidemiology and Prevention  
Donald and Barbara Zucker  
School of Medicine at  
Hofstra/Northwell  
2015-Present Research Assistant Professor Department of Technology and Society  
Stony Brook University  
2000-2014 Assistant Professor Department of Surgery Stony Brook University  
1997-2014 Assistant Professor Department of Medicine Stony Brook University  
1997 Adjunct Assistant Professor Department of Biology C.W. Post University

#### **Appointments at Hospitals/Affiliated Institutions**

2016-Present Attending Physician, Pulmonary and Allergy/Immunology North Shore/LIJ  
2010-Present Attending Physician, Mather Hospital  
2010-Present Attending Physician, St. Charles Hospital  
1997-2015 Attending Physician and Chief Allergy Section, VA Medical Center Northport5  
1997-2015 Attending Physician, Stony Brook University Hospital

#### **Other Professional Positions**

1.2016-Present Member/Co-Investigator, Columbia University Global Psychiatric Epidemiology Group  
2.2012-Present Consultant, World Trade Center Monitoring Program, Stony Brook University  
3.2009-Present Associate, Center for Medical Humanities, Compassionate Care, and Bioethics  
Stony Brook University  
4.2004 Consultant Rockefeller Philanthropy Associates meeting with American Red Cross Post-9/11  
Recovery Grants Program (*pro bono*)

#### **Major Administrative Leadership Positions**

##### **Local**

1.2018-Present Director, International Center of Excellence in Deployment Health and Medical  
Geosciences, Northwell Health Foundation

2.2007 Board of Directors Stony Brook University Child Care Services

### **National and International**

Agencies: Fiscal Year 2012 Clean Air Act and the Environmental Protection Agency Research and Policy Priorities. Congressman Simpson from Idaho chaired the session with Congressman Moran from Virginia.

Testified on behalf of the American Thoracic Society regarding support of clean air act

### **Committee Service**

#### **Local**

2014-Present Member, Pre-Health Professions Advising (Premed) Committee

Stony Brook University

1998-2010 Admissions Committee Stony Brook University School of Medicine (Award for Distinguished Service 2000)

#### **Regional**

1.2007 Research & Development Committee, Veterans Affairs Medical Center, Northport, NY

2.2000 Research & Development Committee, Veterans Affairs Medical Center, Northport, NY

3.1999 Research & Development Committee, Veterans Affairs Medical Center, Northport, NY

### **National and International**

1.2020-Present Program Committee for Allergy, Immunology and Inflammation Committee, American Thoracic Society

2.2020-Present Environmental Occupational, and Population Health Program Committee American Thoracic Society (ATS) International Conference

3.2016 Nominating Committee for the Terrorism and Inhalations Disasters Section, American Thoracic Society

(April 15, 2011) presented to the U.S. House of Representatives, Committee on Appropriations, Subcommittee on Interior, Environment, and Related

Agencies: Fiscal Year 2012 Clean Air Act and the Environmental Protection

Agency Research and Policy Priorities. Congressman Simpson from Idaho chaired the session with Congressman Moran from Virginia.

6.2008-9 American Thoracic Society Environmental Policy Committee

7.2007-2009 Cells and Mediators of Allergic Inflammation Committee, AAAAI

American Academy of Allergy, Asthma, and Immunology

8.2006 Program Committee for Annual Meeting, American College of Allergy, Asthma and Immunology, ACAAI

9.2006 Chair of Women's Health Committee, American College of Allergy, Asthma and Immunology

10.2003 Chair of Postgraduate Asthma Program Committee, Asthma on the Cutting

Edge: Novel Concepts Regarding Immunopathogenesis and Implications for Therapy, CHEST 11.2003, American College of Chest Physicians (ACCP), Orlando, FL

12.2003-2009 Genetics, Molecular Biology & Epidemiology Committee, AAAAI

13.2003 Chair for Seminars, Genetics, Molecular Biology and Epidemiology Committee, American Academy of Allergy, Asthma, and Immunology

14.1999 Vice-Chairperson, Asthma, Allergy and Immunology Committee, ACCP

15.1999-2000 Member of Program Committee for Allergy, Immunology and Inflammation Committee, American Thoracic Society

### **Professional Societies**

1.2018 Inaugural Fellow Class American Thoracic Society, Member since 1994 (ATSF)

- 2.2002 Fellow American College of Physicians (FACP)
- 3.2001 Fellow American Academy of Allergy, Asthma, and Immunology (FAAAAI)
- 4.2001 Fellow American College of Allergy, Asthma & Immunology (FACAAI)
- 5.2000 Fellow American College of Chest Physicians (FCCP)
- 6.1987 Member Sigma Xi
- 7.1985 Charter Member Alpha Pi Mu National Industrial Engineering Honor Society  
Rensselaer Polytechnic Institute Chapter

### **Grant Review Activities**

2001 British Lung Foundation, Burrow Hill Research Award, 73-75 Goswell Road, London, England

### **Editorial Activities**

Journal Reviewer

1. 2022 Respiratory Medicine
2. 2022 Expert Review of Clinical Pharmacology
- 3.2020 Journal of Occupational and Environmental Medicine
- 4.2012 Saudi Medical Journal
- 5.2012 Sarcoid, Vasculitis, and Diffuse Lung Diseases
- 6.2010 New England Journal of Medicine
- 7.2005 Pediatric Transplantation
- 8.2005 Journal of Critical Care
- 9.2004 Allergy and Asthma Proceedings
- 10.2003 European Respiratory Journal
- 11.1999 Annals of Allergy, Asthma, and Immunology

### **Other Editorial Roles**

- 1.2021 Editorial Board Frontiers in Molecular Medicine-Molecular Mechanisms of Immune Disease
- 2.2015 Editorial Board Clinical Internal Medicine Insights: Cardiology

### **Honors and Prizes**

1. Superdoctors New York City , Allergy/Immunology, NY Times Supplement May 13, 2023
2. Twice the Citizen Award from Reserve Organization of America, Arlington, VA, September 30, 2022
3. Invited to White House by President Biden for signing of PACT Act on Burn Pits 8-8-22
4. 2015 Sergeant Sullivan Center “Sergeant Thomas Joseph Sullivan Award for Deployment Science Research”
5. 2013 Medical Society of the State of New York (MSSNY) Albion O. Bernstein, M.D., Award “For his life-long commitment to the field of allergy, asthma, immunology and pulmonary diseases and his dedication to the health of American servicemen and women 9-12-13 presented by President Sam Unterriicht, M.D.”
6. 2004 A national program supported by the Robert Wood Johnson Foundation, 2004 (Ira Byock, MD, Director) “Honors “for your dedication, innovation and contribution to the peer workgroups” by promoting excellence in End-of-Life Care”
7. 2004 Basic Aspects of Vaccines Scholarship (\$1000) to attend 10th National Symposium sponsored by the Walter Reed Army Institute of Research at the Uniformed Services University for the Health Sciences, Bethesda, MD, April 28-30, 2004
8. 2003 Harvard Macy Institute Scholarship to participate in Program for Leaders in Medical Education
9. 2003 American College of Chest Physicians (ACCP) Recognition Award for Service
- 10.1992 NIH Research Festival Office of Clinical Education Research Award for Trainees 9/22/92
- 11.1991 Recognition Award from Dean of Albany Medical College
- 12.1990 Raeburn J. Wharton Scholarship Albany Medical College
- 13.1990 Medical Society of the County of Schenectady Scholarship

- 14.1988 NIH/NCI Medical Student Summer Research Scholarship (Fieldwork at National Taiwan University Hospital, Taipei, Taiwan, “Epidemiological Survey of Hepatocellular Carcinoma in Taiwan”)
- 15.1986 American Lung Association Mini Externship/Scholarship (Fieldwork at Countway Library, Harvard Medical School, New England Hyperbaric Medical Center, York Hospital, York, Maine, RPI department of biomedical engineering, and Albany Medical College departments of physiology and medicine)
- 16.1986 American Institute of Industrial Engineers Technical Paper Competition at Columbia University Third Place Region 1
- 17.1982 Epsilon Zeta Chapter Alpha Pi Omega Award from Rensselaer Polytechnic Institute Office of Admissions for an entering freshman with an outstanding record of extracurricular activity and service in high school
- 18.1982 American Heart Association High School Summer Research Fellowship Program at Albany Medical College
- 19.1982-1986 Rensselaer Polytechnic Institute Rensselaer Scholarship and Dean’s List
20. National Eagle Scout Association 1980

### **Report of Funded and Unfunded Projects**

#### **Funding Information**

##### **Past**

- 1.2018 Principal Investigator MTRC Project No. 20181129.1196 A Manufacturing and Technology Resource Consortium (MTRC) Feasibility Award Agreement: Feasibility Study – SBIR Application No. 1R43HL14521-01f  
Goal is to develop a pulmonary fibrosis drug and medicine for Iraq Afghanistan War Lung Injury
- 2.2015 Principal Investigator Phasebio Corporation Research Grant to Sustain Vasoactive Intestinal Peptide (VIP) Gene Knockout Mice Colony
- 3.2014 Principal Investigator New York State Department of Economic Development and Sergeant Thomas Joseph Sullivan Center #69276 Research in Mechanisms of Inflammation in Mouse Model of Post-Deployment Iraq Afghanistan War Lung Injury (IAW-LI) and Efficacy of RuX as a Therapeutic Agent
- 4.2013 Co-Investigator NIH R21 ES023583 (PI Adam Gonzalez, PhD) “Effects of Hurricane Sandy on the Respiratory and Mental Health of World Trade Center Responders”
- 5.2012 Principal Investigator Nassau Health Care Foundation #60288 “Investigating Cytokines Suppressing Epithelial Cells”
- 6.2012 Principal Investigator New York State Center for Biotechnology (NYSTAR) C070127 Matching Grant for Garnett McKeen Laboratories Award
- 7.2011 Principal Investigator Garnett McKeen Laboratories #58631 “RuX in Allergic Asthma Models”
- 8.2011 Principal Investigator Genentech Unrestricted Investigator Grant
- 9.2011 Principal Investigator Veterans Affairs Equipment Grant
- 10.2008 Principal Investigator NIH Lung Tissue Research Consortium 08-99=0002 “Gene Deficiency of Vasoactive Intestinal Peptide in COPD patients with pulmonary artery hypertension”
- 11.2008-2011 Principal Investigator Pharming Technologies #46449 Nonfederal Grant. Phase II study for Recombinant Human C1 Inhibitor (Rhucin) for the treatment of Hereditary Angiodema.
- 12.2006 Principal Investigator Novartis Grant for Visiting Grand Rounds Professors
- 13.2005 Principal Investigator Merck Program #2543836 Visiting Professor Grand Rounds
- 14.2004-2009 Principal Investigator NIH K08 HL071263 “Modulation of Airway Inflammation and Bronchoconstriction by VIP”
- 15.2004 Principal Investigator SUNY Vice-Dean Matching Equipment Grant for NIH K08
- 16.2003 Principal Investigator Dean’s Research Funds SUNY Stony Brook School of Medicine
- 17.2003 Principal Investigator Pfizer Visiting Professor Grant
- 18.2001 Principal Investigator LeBien Visiting Professor Award from Immune Deficiency Foundation
- 19.2000 Principal Investigator Chinese American Medical Society Research Award
- 20.2000 Principal Investigator SUNY Targeted Research Opportunities Dean’s Clinical Scholar Award

## 21.1.1998 Principal Investigator Astra Pharmaceutical Corporation Research Grant

### **Current**

- 1.PSEG Long Island Main Street Revitalization Grant September 29, 2023, Principal Investigator
- 2.Northwell Health Vice -President for Military Liaison Juan D Serrano \$10K for Circul+ Remote Patient Monitoring Device, Principal Investigator August 2023
- 3.VA Military Toxic Exposures Research Conference (MTEC) grant participant (Marc Klein PI)
4. 2022 Site PI and Co-Investigator \$3.5 million CDMRP Congressionally Directed Medical Research Program DOD Department of Defense Peer Reviewed Medical Research Program (PRMRP) PR211133 - "A Wearable Device for Airborne Hazard and Burn Pit Exposure Monitoring"  
Goal is to test a wearable sensor in simulated burn pit vs. animal and human pathology and physiology.
- 5.2021-Present Principal Investigator, New York State A Manufacturing and Technology Resource Consortium (MTRC) Supplemental Award Agreement MTRC Project No. 20211012.1605  
Goal is to develop a pulmonary fibrosis drug and medicine for Iraq Afghanistan War Lung Injury (IAW-LI).
- 6.2021 U01 OH012264-01 Longitudinal Follow-Up of 9/11 Directly Exposed Children in their Age of Transition: Independence, Occupation and Morbidity (Hoven PI) Co-Investigator and Site PI
- 7.2020-2024 Consultant, NIH R01 HL152385, Hoven, Amsel (MPIs) 05/01/20-04/30/24, "Childhood Mass Trauma Exposure, Inflammatory Programming, and Psychopathology in Young Adulthood"  
Goal is to examine blood samples taken from children exposed to the World Trade Center disaster.
- 8.2020-Present Principal Investigator, Butterfly Ultrasound Unlimited Cloud Storage Grant for Resource Limited Studies  
Goal is to save data from ultrasounds of returning soldiers from Iraq and Afghanistan
- 9.2018-Present Site Principal Investigator and Co-Investigator Centers for Disease Control Grant CDC NIOSH U01 OH011308 "9/11 Trauma and Toxicity in Childhood: Longitudinal Health and Behavioral Outcomes"  
Goal is to assess lung and immune function from children who were exposed to the World Trade Center disaster.

### **Current Unfunded Projects**

- 1.2022 Vasoactive Intestinal Peptide (VIP) Mice Response to Hypoxia  
Goal is to determine etiologic mechanisms of pulmonary hypertension in the absence of VIP
- 2 2022. Lung biopsies from Vaping Young Adults and Copper Deposition  
Goal is to complete IRB-approved study examining vaping lung tissue for copper.

### **Report of Local Teaching and Training**

#### **Teaching of Students in Courses**

- 1.2021 Mentor Yale University School of Medicine Research Year for 4<sup>th</sup> Year Medical Student
- 2.2021 Preceptor 4<sup>th</sup> year medical student (MD/PhD) outpatient rotation in clinical adult and pediatric allergy/immunology and pulmonary diseases, Renaissance School of Medicine at Stony Brook University
- 3.2021 Preceptor summer externship 2<sup>nd</sup> year medical student West Virginia College of Osteopathic Medicine
- 4.2021 Professor EST 499 Research in Technology and Society, Department of Technology and Society, College of Engineering and Applied Sciences, Stony Brook University
- 5.2021 Mentor Temple University Lewis Katz School of Medicine Research Blocks 6 and 8
- 6.2021 Professor Hofstra University HPR 157 A Field Experience in Community Health
- 7.2021 Professor Hofstra University HPR 157 B Field Experience in Community Health
- 8.2009-Present Professor Clinical Pharmacotherapeutics -Allergy, Department of Pharmacology, Renaissance School of Medicine at Stony Brook University

### **Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)**

- 1.2021 Preceptor for internal medicine senior residents, Mather Hospital/Northwell Health, COVID vaccination clinic at Comsewogue High School, Port Jefferson Station, NY, 4-29-21
- 2.2021 Preceptor for chief residents in medicine, Mather Hospital/Northwell Health, COVID vaccination clinic 4-22-21, St. James Roman Catholic Church, Setauket, NY
- 3.2015-Present Allergy/Immunology/Pulmonary Lecture Noon Lecture Series for Mather Hospital/Northwell Health internal medicine residents
- 4.2015-Present Preceptor for Outpatient Allergy/Immunology and Pulmonary Diseases and Inpatient Consultation Service for Mather Hospital/Northwell internal medicine residents
- 5.2005-2010 Tuesday Morning Veterans Affairs Allergy Clinic with Pulmonary Fellows and Medical Students Stony Brook University
- 6.2003-2005 Fellowship Training Program Director, Clinical Adult and Pediatric Allergy/Immunology, Stony Brook University School of Medicine and University Hospital
- 7.2000-2004 Course Director Immunology Lecture Series for Allergy and Rheumatology Fellows and Dermatology Residents, Stony Brook University

### **Clinical Supervisory and Training Responsibilities**

- 1.3/2009 Preceptor for MCS-2 (Medicine in Contemporary Society for 2nd Year Medical Students), at Islandia World Trade Center Monitoring Program, Stony Brook University School of Medicine
- 2.2003-2005 Fellowship Training Program Director, Clinical Adult and Pediatric Allergy/Immunology, Stony Brook University School of Medicine and University Hospital

### **Laboratory and Other Research Supervisory and Training Responsibilities**

- 2004-Present Supervisor Vasoactive Intestinal Peptide Gene Knockout Mice Colony Laboratory

### **Formally Supervised Trainees**

1. 2023 Dorian Pousont, MS2, Donald & Barbara Zucker School of Medicine, Research summer 2
2. 2023 Nicholas Favazza, MS3, Donald & Barbara Zucker School of Medicine, Research year 2023
3. 2023 Amy Huang, postbaccalaureate premed Stony Brook
4. 2023 Katarina Trapanato, pre nursing student Stony Brook
5. 2023 Jennifer Mzobe, postbaccalaureate premedical student
6. 2023 Felicite Tien, Colgate University summer student
7. 2023 Justin Gomez Junior, Biology Major, Stony Brook University
8. 2023 Celina Lin, Sophomore, Biology, Stony Brook University
9. 2023 Muzammil (Quinn) Rasul, Sophomore, Biochemistry and Psychology, Stony Brook University
10. 2023 Victoria Zerbo, Sophomore, Biology Major, Stony Brook University
11. 2023 Shreya Addepalli, Junior, Psychology and International Relations, Stony Brook University
12. 2023 Isam Adnan '2024 Stony Brook University Biology Pre-Med
13. 2022 Maira Riaz, Junior, Biochemistry Major, Stony Brook University
14. 2022 Jacky Lin, Senior Health Science, Stony Brook University
15. 2022 Hadi Khan, Postbaccalaureate premed, SUNY Farmingdale
16. 2022-Present Vicken Khazar, BS Biology Stony Brook University, Accepted MD Stony Brook University and Zucker School of Medicine at Hofstra/Northwell
17. 2022-Present Celestina Banegas
18. 2022-Leo Wan, summer externship, DO candidate at West Virginia School of Osteopathic Medicine
19. 2022-Present Ruijie He, Biology B.S, Senior Stony Brook University, accepted Columbia Biostatistics MPH

20. 2022-Present Xiner Jiang, Biochemistry B.S., Junior Stony Brook University, Pre-Med Student
21. 2022-Present Samuel Escobar, Biology B.S., Post-Bac Pre Med, Stony Brook University  
Accepted to medical school at Brown, Penn State College of Medicine, Hofstra, Stony Brook
22. 2022-Present Mishal Vakil, Biology B.S, Sophomore Stony Brook University, Pre-Med
23. 2022-Present Kirsten Wohlers, Post-Baccalaureate Pre-Health at Stony Brook University. Pre-Med student
24. 2022- Present Rachel Zheng, Dual-Degree PA Program B.S/M.S, Hofstra University, Pre-PA student
25. 2022- Present Purnima Dela Biology B.S., Junior Stony Brook University, Pre-Med Student
26. 2022- Saad Murtaza, Biology B.S, Junior Stony Brook University, Pre-PA student
27. 2021-Present Ryan Chen, Biology B.S., Senior, Stony Brook University. Pre-Med student
28. 2021-David Li, BS in Biology at Stony Brook University; MD candidate at Weill Cornell Medical College
29. 2021-Present Kelvin Chan, MD, PhD student Stony Brook University clinical rotation and research mentor for allergy October 2021 to May 2022, matched at Cornell NY Presbyterian Hospital-medicine
30. 2021-Present Research Mentor Malvika Singh, DNP accelerated candidate University of Vermont
31. 2021 Summer Jake Mann, B.S., summer externship, West Virginia School of Osteopathic Medicine, entering 2nd year medical school
32. 2021 Ryan Dunn, B.S. in Biology at Stony Brook University; medical assistant internship; 1 credit summer 5-24-21 to 7-3-21 2021 EST 499 Research in Technology and Society, College of Engineering and Applied Sciences, Department of Technology and Society, Stony Brook University, accepted into St. Johns PA
33. 2021 Joseph Rossiello, B.S. in Biology at Adelphi University, accepted to NYIT physician assistant program
34. 2021 Jaeda Suarez, Psychology B.S at Stony Brook University, prePhD; medical assistant internship
35. 2021 Niloofar Mirsaidi Temple University Lewis Katz School of Medicine Block 6 research “Case report and literature review on Chronic Inflammatory Demyelinating Polyneuropathy”
  - a. Block 8 “Case report on newly FDA approved oral kallikrein inhibitor orladeyo use in hereditary angioedema”
36. 2021 Rhea Vyas, Senior in Community Health at Hofstra University, accepted into MGH Direct Entry FNP
37. 2021 Amy Zeto, Senior in Health Sciences, concentrating in Environmental health and Safety, Stony Brook University: medical assistant internship
38. 2021 Mentor for Malvika Singh and Jo’Ale White, M.S. Physiology & Biophysics, Stony Brook University, cowrote book chapter in *Climate Change and Global Public Health* “Asthma, Hay Fever, Pollen, and Climate Change”
39. 2021 Mentor for Timothy C. Olsen, MD/MBA candidate at the University of Rochester School of Medicine and Dentistry and Simon Business School; Olsen, T., Koo, S., Promisloff, R., Szema, A., Mechanics & Economics of a Negative Pressure PFT Lab in the COVID-19 Era, **JACI In Practice** (accepted with revisions); this was presented at the Chinese American Medical Society (CAMS X FCMS Scientific Conference [November 8, 2020]).
40. Chapter author in upcoming book: Olsen, T., A Candyman’s Popcorn Lungs, in **Unusual Diseases with Common Symptoms**, Volume 2, Szema, A., Editor.
  - a. Timothy C. Olsen, BS, Robert A. Promisloff, DO, Denise DeCostanzo, MD, Gang He, MD, PhD, Anthony M. Szema, MD, FAAAAI, Plausible Emerging Role of Asthma Biological Modifiers for the Treatment of Eosinophilic Esophagitis (**Cureus Scientific Medical Journal**).



- b. Established a clinical database regarding soldiers with Iraq Afghanistan War Lung Injury (IAW-LI).
  - c. Participant in a Columbia University Global Psychiatric Epidemiology Group CDC NIOSH U01 OH011308 “9/11 Trauma and Toxicity in Children: Longitudinal Health and Behavioral Outcomes” research meeting.
41. 2020 Mentor for Albert Einstein 4th year medical student Max Lee for Scholarly paper, medical student research
  42. 2020 Mentor for Annalina Sanfelici accepted to SUNY Downstate M.D. ‘26
  43. 2019 Fall to 2020 Spring Sukhpreet Ahluwalia, first year medical student SUNY Downstate
  44. Matthew Daidola, first year medical student Touro College of Medicine
  45. 2020 Fall Advising Guadalupe Jimenez 4th year student Indiana University School of Medicine (matched at Cornell/Columbia Emergency Medicine NY Presbyterian Hospital)
  46. Nicole Casson, New York Medical College 4th year medical student (matched at Columbia Neurology)
  47. 2020 Summer-Fall Internal Medicine residents at Mather Hospital, Northwell Health Allergy/Immunology elective; Kristian Shyta, MD, Siu Lam Koo, DO, Albert Ramified, DO, Abdullah Najdat, MD, Saidyvia Nair, MD
  48. 2019-Present Research Mentor for Oneib Qadir, BS, applying to medical school
  49. 2019-Present Research Mentor for Afaaq Ahmed, MS, Accepted to Kentucky College of Osteopathic Medicine
  50. 2019 Steven Tung, MS, accepted to Noorda College of Osteopathic Medicine, Utah
  51. Caroline Garas, BS, New York Institute of Technology Pre-PA student
  52. 2019 Lyle Suh, BS, medical assistant, current medical student University of Massachusetts
    - a. fall 2020, Lyle Suh, first year medical student U Mass Amherst fall 2020
  53. 2018-2020 Michael Rossiello, MA, current nursing student College of Mount Saint Vincent
  54. 2018-2019 Research Mentor to Mohsen Ahmed, BS, current medical student Rutgers Newark
  55. 2017-2018 Dennis Caruana, BS, medical assistant, current 4<sup>th</sup> Year Medical Student Yale University School of Medicine
  56. 2016-2023 Cyrus Jo, accepted to Philadelphia College of Osteopathic Medicine
  57. 2016-2020 Ashlee Pagnotta, BS, medical assistant, current nursing student College of Mount Saint Vincent, RN, NY Presbyterian Weill Cornell Medical College Cardiac Step Down Unit
  58. 2016-2022 Thesis Adviser for Jo’Ale White, MS in Physiology and Biophysics, Stony Brook University, medical assistant, applying to nursing school
  59. 2016-2020 Thesis Adviser for Malvika Singh, MS in Physiology and Biophysics, Stony Brook University, medical assistant, current DNP Student University of Vermont
  60. 2016 Nicole Casson, MD, was medical assistant, now New York Medical College alumna and neurology resident at Columbia
  61. 2016 Rebecca Shum, MD, was medical assistant, now Renaissance School of Medicine at Stony Brook University alumna and Northwell Health Medicine Intern
  62. 2016 Christine Pando, MD, was medical assistant, now Renaissance School of Medicine at Stony Brook University alumna and University of Wisconsin Milwaukee Obstetrics and Gynecology Resident
  63. 2016 Joel Kovoov, MD, was medical assistant and research assistant, now NYU Grossman School of Medicine alumnus and ophthalmology resident Wayne State University Detroit
  64. 2016 Tram Nguyen, was medical assistant and research assistant, MD/PhD student Albert Einstein College of Medicine Bronx
  65. 2016 Marc Kostrubiak, MD, was medical assistant and research assistant, now Larner College of Medicine University of Vermont alumnus and resident in anesthesiology University of Vermont
  66. 2016 Gregory Smith, MS, Touro College of Medicine ‘26
  67. 2016 Jacquelyn Kinney, BS, research assistant, medical student at Hackensack Meridian Health New Jersey, matched in plastic surgery residency Rutgers Newark

68. 2016 David Lin, BS, research assistant, NYU Dental School
69. 2016 Courtney Long, AB, medical and research assistant, medical student at Columbia University Vagelos College of Physicians and Surgeons, matched at Cohen Children's Northwell Health Pediatrics
70. 2015 Morgan Tupper, chief medical assistant, medical student at College of Osteopathic Medicine of the Pacific Northwest
71. 2015 Lindsay Stemke, MD, was medical assistant, now alumna Renaissance School of Medicine at Stony Brook University, now resident North Shore University Hospital
72. 2015 Max Lee, MD, was medical assistant, now alumnus Albert Einstein College of Medicine, now resident at NYU Langone
73. 2015 Allen Lee, BS, was medical assistant, now MD/PhD student Renaissance School of Medicine at Stony Brook University
74. 2015 Roxane Javadi, MD, was medical and research assistant, now alumna of Drexel University College of Medicine, resident Drexel
75. 2015 Jheison Giraldo, MD, was medical and research assistant, now alumnus of Renaissance School of Medicine at Stony Brook University, medicine and pediatrics resident at the University of Miami
76. 2015-2017 Niloofar "Neily" Mirsaidi, MD, was medical assistant and research assistant, now alumna of Lewis Katz School of Medicine at Temple University, internal medicine intern at Northwell Health North Shore University Hospital
77. 2014-2019 Po Hsuan "Mark" Huang, was chief medical assistant and research assistant, now medical student at California University of Science and Medicine, matched Rutgers Newark IM
78. 2013-2015 Jonathan LI, MD, was chief medical assistant and research assistant, now alumnus of Sidney Kimmel Medical College at Thomas Jefferson University, medicine and pediatrics resident at the University of Pittsburgh
79. 2012 Edward Forsyth, MD, Mentor for MD with Recognition in Research Stony Brook University School of Medicine, now robotics fellow in urology, University of Southern California
80. 2011 Khalil Savary, MD, research mentor, now assistant professor of pediatric pulmonary medicine, Rutgers Newark
81. 2010 Mentor for Tamarra Khaimchayev, MD, M.D. With Recognition in Research, Stony Brook University School of Medicine, now Endocrinologist JFK Medical Center, New Jersey
82. 2009-2012 Mentor for Rabail Razi, MD, Stony Brook University School of Medicine, now general internist Meritus Health, Maryland
83. 2009-2012 Mentor for Niha Qamar, MD, Stony Brook University School of Medicine, now allergist/immunologist in Hicksville and Brentwood, NY
84. 2009-2012 Mentor for Yi-Feng Chen, MD, Stony Brook University School of Medicine, now allergist/immunologist in Brooklyn, NY
85. 2009 Mentor for world trade center research, Benjamin Ying, MD, now emergency medicine professor at Baylor University
86. 2006 Summer college interns Emily Rosa, Penn State University Health Care Administration Department; Jonathan Marose, SUNY Stony Brook Cytotechnology Prog
87. 2004-2007 Faculty adviser for Stony Brook medical student, Michael Peters, M.D., now assistant professor at USCF School of Medicine. pulmonary/critical care division, published: Szema, A, Peters, M, Weissinger, K, Gagliano, C, Chen, J, New-onset Asthma Among Soldiers Serving in Iraq and Afghanistan, Allergy and Asthma Proceedings, 31(5): 67-71, 2010.
88. 2003-2005 Allergy/Immunology Fellowship Director for Allergy/Immunology Fellowship Director for Irena Veksler-Offengenden, M.D. Publications: I. Veksler Offengenden, P.F. Maloney, A.M. Szema Sarcoidosis in a patient with common variable immunodeficiency Journal of Allergy and Clinical Immunology Vol. 113, Issue 2, Supplement, Page S125, February 2004. Now allergist/immunologist in Israel

89. 2003-2005 Allergy/Immunology Fellowship Director for Thao Tran, M.D. Clinical Faculty Position, University of Washington Division of Allergy and Immunology.
90. 2003-2005 Allergy/Immunology Fellowship Director for Meera Khedkar, M.D. Publications: Szema, A.M., Khedkar, M., Maloney, P.F., Takach, P.A., Nickels, M.S., Patel, H., Tso, A.Y., Lin, D.H., Clinical deterioration in pediatric asthma patients after September 11, 2001, *J All Clin Immunol*, 113: 420-426, 2004. (Selected as Editor's Choice article); Szema, AM, Khedkar M, Maloney PF, Takach PA, Nickels MS, Patel H, Modugno F, Tso AY, Lin DH, Chen H, "Reply, 19 August 2004," *Journal of Allergy and Clinical Immunology* 114: 989-990, 2004; M. Khedkar, R.K. Rana, A.M. Szema. Lack of knowledge regarding anaphylaxis in an at-risk pediatric population *Journal of Allergy and Clinical Immunology* Vol. 115, Issue 2, Supplement, Page S40, February 2005.
91. 2002-2004 Allergy/Immunology Fellowship Director for Patrick Maloney, M.D., now Northwell Health Allergy and Immunology Physician Partners Mamaronek. Publications: Szema, A.M., Khedkar, M., Maloney, P.F., Takach, P.A., Nickels, M.S., Patel, H., Tso, A.Y., Lin, D.H., Clinical deterioration in pediatric asthma patients after September 11, 2001, *J All Clin Immunol*, 113: 420-426, 2004. (Selected as Editor's Choice article); Szema, AM, Khedkar M, Maloney PF, Takach PA, Nickels MS, Patel H, Modugno F, Tso AY, Lin DH, Chen H, "Reply, 19 August 2004," *Journal of Allergy and Clinical Immunology* 114: 989-990, 2004; I. Veksler Offengenden, P.F. Maloney, A.M. Szema Sarcoidosis in a patient with common variable immunodeficiency *Journal of Allergy and Clinical Immunology* Vol. 113, Issue 2, Supplement, Page S125, February 2004.
92. 2002-2004 Allergy/Immunology Fellowship Director for Patricia Takach, M.D. Co-Director of Allergy and Immunology Clinical Programs; Course Director, Elective in Allergy and Immunology; Associate Professor of Clinical Medicine, Penn Medicine, University of Pennsylvania School of Medicine. Publications: Szema, A.M., Khedkar, M., Maloney, P.F., Takach, P.A., Nickels, M.S., Patel, H., Tso, A.Y., Lin, D.H., Clinical deterioration in pediatric asthma patients after September 11, 2001, *J All Clin Immunol*, 113: 420-426, 2004. (Selected as Editor's Choice article); Szema, AM, Khedkar M, Maloney PF, Takach PA, Nickels MS, Patel H, Modugno F, Tso AY, Lin DH, Chen H, "Reply, 19 August 2004," *Journal of Allergy and Clinical Immunology* 114: 989-990, 2004.
93. 201-2003 Allergy/Immunology Fellowship Harshit Patel, M.D. now Clinical Instructor, Department of Medicine, NYU Grossman School of Medicine. Publications: Szema, A.M., Khedkar, M., Maloney, P.F., Takach, P.A., Nickels, M.S., Patel, H., Tso, A.Y., Lin, D.H., Clinical deterioration in pediatric asthma patients after September 11, 2001, *J All Clin Immunol*, 113: 420-426, 2004. (Selected as Editor's Choice article); Szema, AM, Khedkar M, Maloney PF, Takach PA, Nickels MS, Patel H, Modugno F, Tso AY, Lin DH, Chen H, "Reply, 19 August 2004," *Journal of Allergy and Clinical Immunology* 114: 989-990, 2004.
94. 2001-2003 Allergy/Immunology Fellowship Director for Michael Nickels, M.D., Ph.D., allergist immunologist Lemoyne, PA. Publication: Szema, A.M., Khedkar, M., Maloney, P.F., Takach, P.A., Nickels, M.S., Patel, H., Tso, A.Y., Lin, D.H., Clinical deterioration in pediatric asthma patients after September 11, 2001, *J All Clin Immunol*, 113: 420-426, 2004. (Selected as Editor's Choice article)
95. 2000-2002 Associate Program Director for allergy/immunology fellowship for Cindy Chang, M.D., now allergist/immunologist Hackensack Meridian Health. Publication: Concha, Lourdes, B., Chang, Cindy, C., Szema, Anthony M., Dattwyler, Raymond J., Carlson, Harold E., IgE antithyroid antibodies in patients with Hashimoto's Disease and chronic urticaria, *Allergy and Asthma Proceedings*, 25:293-6, 2004.
96. 2000-2002 Associate Program Director for allergy/immunology fellowship for John Byrne, MD, (scored 99% on in-service exam) now allergist/immunologist Peconic Bay Medical Center Northwell Health

97. 2000 Faculty Adviser for Stony Brook Medical Student, Chinese American Medical Society Medical Student Summer Research Scholarship, Karen Chang-Chen, MD, now endocrinologist St. Luke's Hospital Missouri
98. 2000 Faculty Adviser for Roger Yang, MD, Chinese American Medical Society Medical Student Summer Research Scholarship, now general internist, Jackson Heights, NY
99. 1999-2000 Faculty Adviser for Howard Hughes Undergraduate Research Fellowship, Ramneek Rana, MD, now Obstetrician/Gynecologist UCLA Health, Los Angeles, CA
100. 1998 Research mentor for Kristen Weissinger, summer assistant, PhD, University of Rhode Island
101. 1998 Adjunct Professor, Department of Biology, C.W. Post University Master's degree adviser for graduate student Suzanne Thomas, M.S. in Biology with Immunology Concentration, now Associate Professor LIUPost Medical Imaging Program

### **Formal Teaching of Peers (e.g., CME and other continuing education courses)**

- 1.2011 "Adult and Pediatric Allergy" for Stony Brook University Department of Continuing Medical Education and University at Sea Cruise to Alaska and Victoria, Canada on Holland America's M.S. Westerdam
- 2.2009 Adult and Pediatric Allergy, Asthma and Immunology: What Every Primary Care Physician Needs to Know, SUNY Stony Brook Department of Continuing Medical Education, Freedom of the Seas Cruise Ship (lectured for 18 CME hours in Labadee, Haiti, Ochos Rios, Jamaica, Georgetown, Grand Cayman, Cozumel, Mexico)
- 3.2009 Adult & Pediatric Allergy, Clinical Immunology & Pulmonary Disease: What Every Primary Care Physician Needs to Know, (SUNY Stony Brook Department of Continuing Medical Education and Cruise Planners on Royal Caribbean Cruise Line)

### **Local Invited Presentations**

1. 09/12/23 AAPI Asian American Pacific Islander Mentorship Open House Stony Brook University
- 2.11/18/21 Advice on Getting into Med School and How to Survive and Thrive in the Ever-Changing World of Medicine, Stony Brook University, Hofstra University Pre-Med Committees
- 3.4/29/21 Iraq Afghanistan War Lung Injury, Mather Hospital, Northwell Health, internal medicine residency program lecture
- 4.4/28/21 Allergy for Dummies, Mather Hospital, Northwell Health, internal medicine residency program lecture
- 5.4/22/21 Angioedema and unusual cases, Mather Hospital Northwell Health, internal medicine residency program lecture
- 6.4/21/21 Anaphylaxis, Mather Hospital, Northwell Health, internal medicine residency program lecture
- 7.4/2013 World Trade Center Monitoring Program Stony Brook University School of Medicine, "Asthma in Children near the World Trade Center" and "Allergic Conjunctivitis, Rhinitis and Asthma Primer with Hands-on Training with Multi-Test"
- 8.5/2012 M.D. With Distinction in Research Presentations Stony Brook University School of Medicine: Iraq Burn Pit Dust Induces Airway Inflammation in Mice; Novel Organometallic Complex, Rux, Attenuates Iraq Burn Pit Dust-Induced Airway Inflammation by Upregulating Treg; Conjunctivitis, Rhinitis and Wheezing Among Children Living Near the World Trade Center: Association with Elevated PM2.5 containing Arsenic, Lead, Vanadium and Indium
- 9.5/2012 Department of Family Medicine Grand Rounds, "A Diagnostic Dilemma" with Chief Resident Alayah Rizvi
- 10.5/2012 "Increased Asthma & Allergic Rhinitis Rates Among U.S. Military Personnel After Deployment to the Persian Gulf: Is this Soil Dust flux?"  
Department of Geosciences Research Seminar (Medical Geosciences) Stony Brook University
- 11.1/2012 SUNY Stony Brook Medicine Housestaff, Medical Students, and Second-Look Residency Applicants, "Anaphylaxis".

12.1/2012 SUNY Stony Brook Medicine Housestaff: Iraq Afghanistan War Lung Injury  
 13.5/2011 Keynote Speaker for Operation Iraqi Freedom/Operation Enduring Freedom OEF/OIF/OND  
 Combat Veterans Information Day and Open House, “Occupational Lung Disease Among Soldiers  
 Deployed to Iraq & Afghanistan,” Northport VAMC  
 14.3/2010 “No Peanuts for You: Stay Away from the Satay” for the Division of Pediatric  
 Gastroenterology, SUNY Stony Brook at the Long Island State Vets Home  
 15.7/2009 Stony Brook GI Grand Rounds on Eosinophilic Esophagitis, Celiac Sprue and Food Allergy  
 16.5/2009 Asthma and the World Trade Center: Role of Impedance Plethysmography and Spirometry  
 Department of Respiratory Care Program Faculty Conference, SUNY Stony Brook, School of Health  
 Technology and Management  
 17.8/2008 Rheumatology Conference: Vasculitis, Stony Brook University Division of Rheumatology  
 18.8/2007 “Anaphylaxis: Interactive Powerpol Lecture on When to Skin Test” and “Anaphylaxis:  
 Simulated Patient”  
 Lectures at Patient Simulation Center, SUNY Stony Brook School of Medicine, for medicine housestaff  
 and medical students  
 19.4/2007 “Clinical Pharmacology of Allergy Medications,” SUNY Stony Brook 4th year Medical  
 Student Course  
 20.3/2007 “B Cell Development and Activation, Antibody Class Switching and Secretion” Rheumatology  
 Fellows Conference, Stony Brook University Hospital  
 21.2/2007 Primary Immunodeficiency, Infectious Disease Division Conference, Stony Brook University  
 22.10/2006 “Churg Strauss Vasculitis vs. ABPA”  
 Rheumatology Fellows Conference, Stony Brook University Hospital  
 23.6/2006 “Celiac Disease and Food Allergies” 32nd Annual Family Medicine Symposium, SUNY Stony  
 Brook and Office of CME  
 24.4/2006 “Biological Modifiers and Inflammatory Bowel Disease,” Division of Gastroenterology Grand  
 Rounds, SUNY Stony Brook  
 25.8/2005 “Allergy for Dummies,” Pulmonary Critical Care Fellows Conference, SUNY Stony Brook  
 26.2/2005 “Cytokines: A Primer for Infectious Disease Fellows,” Division of Infectious Diseases Grand  
 Rounds, SUNY Stony Brook  
 27.1/2005 “Lung Health Effects from World Trade Center Exposure” Department of Preventive Medicine  
 Continuing Medical Education Grand Rounds, SUNY Stony Brook  
 28.9/2000 “Status Asthmaticus” Emergency Medicine Department, SUNY Stony Brook

## **Report of Regional, National and International Invited Teaching and Presentations**

### **Invited Presentations and Courses**

#### **Regional**

1. 6-5-23 Columbia University Global Psychiatric Epidemiology Groups Hands-On Impulse Oscillometry
2. 11-29-22 Feinstein Institutes for Medical Research Visiting Professor, Iraq Afghanistan War Lung Injury
3. 10-27-22 Occupational Medicine Grand Rounds Hofstra/Northwell, History of Research on Burn Pits
4. 8-31-22 Briscoe-King Lung Club at Weill Medical Collège, Cornell University, Iraq/Afghanistan War Lung injury (IAW-LI) Reflects Burn Pits Exposure
5. 4/11/22 Clinical Pharmacotherapeutics-Allergy, Renaissance School of Medicine at Stony Brook University for 4<sup>th</sup> Year Medical Students
6. 4/12/21 Clinical Pharmacotherapeutics-Allergy, Renaissance School of Medicine at Stony Brook University for 4th Year Medical Students
7. 4-28-21 Moderator, Briscoe-King Lung Club at Weill Medical College, Cornell University
8. 10-11-19 Scientific Underpinnings of Omnibus Burn Pits Legislation to be Proposed in Congress, February 2020, Touro Law School, Central Islip, NY Veterans Legal Clinic
9. 10/2019 Briscoe King Lung Club at Weill Cornell Medical College honoring Dr. Thomas King “VIP Attenuates Death from Bleomycin-Induced Lung Fibrosis in Male Mice”

10.4/2017, 4/2018, 4/2019, 4/2020 Lecturer, Therapeutics Course, Stony Brook University School of Medicine, Stony Brook, NY

11.11/9/18 Burn Pit Exposure as a Cardinal Feature of Iraq Afghanistan War Lung Injury, Stony Brook University Preventive Medicine Residency

12.9//19/18 Geriatric Asthma and Allergy Testing, Stony Brook University Geriatric Fellowship

13.2/2017 Lecturer, "NFATc3 and VIP in Idiopathic Pulmonary Fibrosis and Chronic Obstructive Pulmonary Disease", The William A. Briscoe New York Lung Club, Weill Medical College of Cornell University, New York, NY

14.4/2016 Lecturer for Accepted Students, Stony Brook University, Stony Brook, NY

15.4/2016, 4/2018 Lecturer, "Iraq/Afghanistan War Lung Injury", "World Trade Center Lung Injury." Undergraduate Environmental Studies, Stony Brook University, Stony Brook, NY

16.12/2015 Lecturer, Steering Committee for the CDC on pediatric asthma in relation to the WTC diseases (includes lecture), Center for Disease Control, New York, NY

17.12/2015 Lecturer, "Elevated Airways Resistance Among Children Living Near the World Trade Center: A cohort study utilizing Impulse Oscillometry," The William A. Briscoe New York Lung Club, Weill Medical College of Cornell University, New York, NY

18.5/2015 Lecturer "Peanut anaphylaxis (interactive sessions)", Arrowhead Elementary School, Three Village Central School District, East Setauket, NY

19.12/2011 VIP Stimulates the Generation of Regulatory T Cells, The William A. Briscoe New York Lung Club, Department of Genetic Medicine, Weill Medical College of Cornell University, NY, NY

20.2/2009 Winthrop University Hospital Allergy/Immunology/Rheumatology Grand Rounds on "HIV"

21.12/2007 Winthrop University Hospital Allergy/Immunology/Rheumatology Grand Rounds on "HIV"

22.4/2007 9/11 Health Effects, United States Congress Subcommittee, Meeting on 9/11 Health Effects, Field Hearing in Brooklyn, NY

23.12/2006 "Pulmonary Arterial Hypertension in VIP KO Mice: Hemodynamic, Anatomic, Echocardiographic and MRI Evidence" The William A. Briscoe New York Lung Club at Weill Medical College of Cornell University, NY, NY

24.12/2005 "Mice Lacking the VIP Gene Show Airway Hyperresponsiveness and The William A. Briscoe New York Lung Club at Weill Medical College of Cornell University/New-York, NY Presbyterian Hospital

25.5/2005 Pathophysiologic and Pathologic Features of Asthma in VIP Knockout Mice, May 2005, The William A. Briscoe New York Lung Club at Weill Medical College of Cornell University, NY, NY

26.5/2004 "Asthma in New York City's Chinatown after 9/11," United States Environmental Protection Agency (EPA) 7<sup>th</sup> Meeting of the World Trade Center Expert Technical Review Panel, St. John's University, NY, NY

27.11/2004 "VIP and Asthma", Albany Medical College Department of Microbiology and Immunology Grand Rounds, Albany, NY

28.9/2004 "Asthma in NYC's Chinatown After 9/11," New York University Pulmonary/Critical Care 9/11 Scientific Symposium, NY, NY

29.6/2004 "Clinical Deterioration in Pediatric Patients Living Near the World Trade Center After September 11, 2004," Columbia University College of Physicians & Surgeons, Children's Hospital of New York Clinical Adult and Pediatric Allergy and Immunology Alumni Fellows Symposium, NY, NY

30.5/2004 "Update on the Allergy/Immunology Fellowship at SUNY Stony Brook," NY Allergy Society Meeting Annual Fellowship Symposium at Mt. Sinai School of Medicine, NY, NY

31.3/2004 Expert testimony given at New York City Council Chambers, for the "World Trade Center and Air Quality Meeting" sponsored by the NY City Council Health Committee and Urban Redevelopment Committee, NY, NY

32.2/2003 "Clinical Parameters of Chinese American Asthma Patients Living Near Ground Zero Before and After 9/11/01," and "NIH Asthma Guidelines," Flushing Hospital Medical Center Grand Rounds, Flushing, NY

33.12/2000 “Asthma, Occupational Asthma, RADS, and Byssinosis,” Department of Medicine Grand Rounds at Flushing Hospital medical Center, Flushing, NY  
34.9/2000 “Nasal Polyposis,” Winthrop University Hospital Grand Rounds in Allergy/Immunology, Mineola, NY  
35.5/2000 “Antihistamines in the Elderly,” Long Island Jewish Hospital Parker Geriatric Center Department of Medicine Grand Rounds, Manhasset, NY  
Summer 1999 “Near Drowning” Southampton Hospital  
36.1999 “CD40 Ligand and Airway Inflammation.” presentation at William Briscoe New York Lung Club, Cornell University Medical College, NY, NY  
37.1998 “CD40 Ligand and Airway Inflammation.” presentation at William Briscoe New York Lung Club, Cornell University Medical College, NY, NY  
38.1997 “CD40 Ligand and Airway Inflammation.” presentation at William Briscoe New York Lung Club, Cornell University Medical College, NY, NY

### **National**

1.2-25-2024 AAAAAnnual Meeting Environmental Exposure Effects with Allergic and Asthmatic Disease in Veterans, Washington, DC  
2. 8-9-23 Military Burn Pits Exposure and Interstitial Lung Disease Boehringer Ingelheim  
2. 4-13-23 Multispecialty Grand Rounds James J. Peters Department of Veterans Affairs Medical Center, Bronx, NY, Lung disease Associated with Deployment and Burn Pit Exposure  
3. 3/27/23 Department of Veterans Affairs Office of Research and Development VA Military Toxin Exposure Conference Virtual Speaker and Panelist  
<https://veteransaffairs.webex.com/veteransaffairs/j.php?MTID=m49f1cbe88e19457767c2d689505d3497>  
4. 8/4/22 Keynote Speaker Association of Asthma Educators (AAE) 2022 Annual Conference in Chattanooga, TN  
Burn Pits Exposures and links to respiratory disease  
5. 5/12/22 Nominated by Tammy Butterick, PhD, as Keynote Speaker Minneapolis VA Research Day Burn Pits and Lung Health  
6. 5/14/22 Invitation to American Thoracic Society Respiratory Innovation Summit San Francisco, CA Novel Candidate Medicines for Lung Fibrosis, Iraq Afghanistan War Lung Injury (IAW-LI) and World Trade Center Lung Injury  
7. 3/16/22 Expert Witness Subcommittee of the U.S. Senate Armed Services Committee on Burn Pits: Guest of Senator Kirsten Gillibrand “Recommendations to the DOD Regarding Force Health Protection from Burn Pits and Airborne Hazards in War”  
8. 5/17/22 American Thoracic Society International Conference San Francisco, CA Terrorism, Inhalational Disasters, and Deployment-Related Lung Disease  
Co-chair discussion session  
9. 5/17/22 American Thoracic Society International Conference San Francisco, CA Meet the Expert Seminar  
ME41 Update on Burn Pit Legislation and Advocacy  
10. 5/17/22 American Thoracic Society International Conference San Francisco, CA Dennis Caruana & Anthony Szema  
Utilization of Allergy and Immunology Services Among Rescue Workers Exposed to the World Trade Center Disaster ORAL PRESENTATION  
11.2/16/22 Harvard Law School Disabled American Veterans (DAV) Distinguished Speaker Series Harvard Law School Veterans Legal Clinic, invitation from David Nagin, JD, Clinical Professor of Law, Faculty Director, Wilmerhale Legal Services Center & Veterans Legal Clinic Harvard Law School  
12.3/10/21 U.S. Senate Veterans Affairs Committee  
<https://www.veterans.senate.gov/hearings/military-toxic-exposures-the-human-consequences-of-war>  
13.12/21/21 CCI Tech Solutions Showcase Discussion on Remote Patient Monitoring Los Angeles, CA

14.10/11/2020 Virtual Mid-Atlantic Regional Conference in Occupational and Environmental Medicine: Health Effects of Burn Pits, Johns Hopkins Education and Research Center for Occupational Safety and Health

15.8/28/20 2020 Military Toxic Exposures Conference sponsored by Grunt Style and Bunrpts360, San Antonio, TX (virtual)

16.5/18/20 Need for Penicillin Allergy Testing Among Ehlers-Danlos Syndrome Patients American Thoracic Surgery International Conference Philadelphia (virtual August 2020)

17.5/18/20 Occupational Cryptococcal Pneumonia in an Immunocompetent Patient Plausibly Acquired by Cleaning Dust-Laden Military Parts from Iraq Discussion Section American Thoracic Surgery International Conference Philadelphia (virtual video with student William Kollmer August 2020)

18.5/18/20 Meet the Professor Lunch Symposium What's The Fuss Over Burn Pits, IEDS, and Iraq Afghanistan War Lung Injury American Thoracic Surgery International Conference Philadelphia canceled due to COVID pandemic

19.5/18/20 Chronic, Repetitive Coughing Fits in a Patient Receiving Bacillus Calmette-guerin (BCG) Immunotherapy Following Bladder Cancer Surgery American Thoracic Surgery International Conference Philadelphia (with Mike Rossiello)

20.10/28/19 Russell Senate Building Update on Burn Pits and Lung Injury for Senator Kirsten Gillibrand and Jon Stewart

21.11/2019 3. Akira Armure Memorial VIP/PACAP and Related Peptides Symposium: 30 years after PACAP Discovery, UCLA, Los Angeles, CA Oral Discussions of work

### **International**

1.12/2017 13th International Symposium on VIP, PACAP and Related Peptides, University of Hong Kong

2.8/2013 Memorial Lecture for Sami I. Said, M.D., at Opening Ceremony for the 11<sup>th</sup> International Symposium on VIP, PACAP and Related Peptides, Pecs, Hungary

3.2/2012 Speaker at 1st International Scientific Symposium on Lung Health After Deployment to Iraq and Afghanistan, Stony Brook University

4.5/2012 Late-Breaking Abstract at American Thoracic Society International Conference, Iraq Burn Pit Dust Induces Airway Inflammation in Mice, San Francisco, CA

5.6/2011 Lecturer, Occupational Lung Diseases among Soldiers Serving in Iraq and Afghanistan, American Thoracic Society International Conference, Denver, CO

6.10/2009 Vasoactive Intestinal Peptide (VIP) Suppresses the inflammatory response to monocrotaline in rat lungs, The 9th International Symposium on VIP, PACAP, and Related Peptides, Kagoshima, Japan  
VIP-/- Mice have whole-body insulin sensitivity despite a hyperinflammatory state, European Association for the Study of Diabetes (EASD), Dusseldorf, Germany

7.5/2009 High Rates of Asthma in Chinatown, NY, American Thoracic Society International Conference, San Diego, CA

8.5/2008 Increased Rates of Asthma Among U.S. Military personnel After Deployment to the Persian Gulf. American Thoracic Society International Conference, Toronto, CA

9.5/2008 Is there a Common Pathogenetic Mechanism for Pulmonary Vascular Remodeling and Inflammation in PAH? ATS International Conference, Toronto, Canada

10.9/2005 Clues to VIP Function from Knockout Mice, 7th International Symposium on VIP, PACAP and Related Peptides, Rouen, Normandy, France

11.09/2004 VIP knockout mice show asthma-like airway hyper-reactivity, and inflammatory response to immunologic challenge, European Respiratory Society Annual Congress, Glasgow Scotland

12.11/1989 "Ventrolateral medullary surface blood flow and hypoxic ventilatory depression," Sixth International Hypoxia Symposium Italy

### **Report of Clinical Activities and Innovations**

#### **Current Licensure and Certification**

2022 Active license to practice medicine New York State, Massachusetts, and DEA



2021 Recertified in clinical adult and pediatric allergy and immunology (ABAI)  
2021 NYU NY POCUS Point of Care Ultrasound Course Oct 28, 29, 2021 (14 CME credits) sponsored by the Society for Hospital Medicine  
2020 Recertified in internal medicine American Board of Internal Medicine (ABIM)  
2019 Recertified in pulmonary diseases American Board of Internal Medicine (ABIM)  
2015 BLS AED Mather Hospital  
2013 BLS Northport VA 9/11/13  
2013 PALS American Heart Association (Mather Hospital) July 2013  
2013 Planetree Training, Department of Veterans Affairs  
2013 ACLS recertification  
2011 ACLS recertification  
2011 Recertified in clinical adult and pediatric allergy and immunology (ABAI)  
2008 Diagnostic procedures in rhinosinusitis certificate American Academy of Allergy, Asthma, Immunology (AAAAI)  
2003 Advanced Trauma Life Support (ATLS)  
2002 Diplomate in Critical Care Medicine American Board of Internal Medicine (ABIM)  
1999 Diplomate in Clinical Adult and Pediatric Allergy/Immunology (ABAI)  
1997 Diplomate in Pulmonary Diseases American Board of Internal Medicine (ABIM)  
1994 Diplomate in internal medicine American Board of Internal Medicine (ABIM)

### **Practice Activities**

- 1.2012-Present Managing Member Three Village Allergy & Asthma, PLLC
- 2.2010-2012 Stony Brook Allergy and Asthma Allergist
- 3.2000 Pro bono Attending physician Chinatown Health Clinic/Charles B. Wang Community Health Center 4

### **Clinical Innovations**

- 1.2011 VIP mechanism of action on Tregs via FOXP3 and Helios as anti-autoimmune drug Mondo Biotech has a clinical trial of VIP for immune regulation of sarcoid in Germany.
- 2.2009 Virtual Nasal Endoscopy New Technology Disclosure with Jerome Liang, PhD Paves the way locally to support the concept of virtual nasal endoscopy.
- 3.2007 Allergy, Asthma and Immunology in Pregnancy Laminated Card for Housestaff (Was distributed to Stony Brook housestaff and medical students for white coat access)
- 4.2006 Provisional U.S. Patent VIP Microspheres and pulmonary hypertension Provides basis for permanent U.S. patent.

### **Report of Technological and Other Scientific Innovations**

2013 New technology disclosure for pressure sensitive Smart shirt, Stony Brook University Office of Technology and Licensing

### **Report of Education of Patients and Service to the Community**

#### **Activities**

- 1.10-14-21 Expert Department of Veterans Affairs Board of Appeal Granted for Sean Polanowski for Burn Pit Exposure  
“The Board resultantly finds Dr. Szema’s opinion highly probative and affords it a lot of weight – especially since he is considered one of the leading experts on the effects of exposure to burn pits, and, to this end, has published multiple papers on this subject and testified before the U.S. Senate Committee on Veterans’ Affairs on this very subject.”
- 2.4-22-21 and 5-20-21 COVID-19 Moderna vaccination clinic, St. James Roman Catholic Church, Setauket, NY with Mather Hospital, Northwell Health, internal medicine residents
- 3.4-29-21 and 5-27-21 COVID-19 Moderna vaccination clinic at Comsewogue High School, Port Jefferson, NY

4.12/2019 Chief Medic, 8th Manhattan International Open and 32nd Governor's Cup, New York State TaeKwonDo Association, Baruch College, NY, NY  
5.4/2011 "Food Allergy: Interactive Hands-On Lecture for Health Fair Day-" Educated 3rd Graders about Epi-pen use, Eugene Auer Memorial Elementary School, Lake Grove, NY.  
6.2/2010 "Food Allergy: Interactive Hands-On Lecture for Health Fair Day-" Educated 3rd Graders about Epi-pen use, Eugene Auer Memorial Elementary School, Lake Grove, NY  
7.10/2008 Rensselaer Polytechnic Institute Alumni Recruiter and Admissions Interviewer at Connetquot (Bohemia) and Sayville High School College Fairs  
8.3/2008 "Food Allergy: Interactive Hands-On Lecture for Health Fair Day-" Educated 3rd Graders about Epi-pen use, Eugene Auer Memorial Elementary School, Lake Grove, NY  
9.3/2007 Food Allergy and Anaphylaxis, Health Day at Eugene Auer Elementary School, Lake Grove, NY

### **Recognition**

- 1.-2022 New York Times Magazine Supplement Superdoctors®
2. 2007 The Global Directory of Who's Who Honoring Executives and Professionals

### **Report of Scholarship**

#### **Peer Reviewed Publications in Print or Other Media**

Research investigations

1. Yellin MJ, D'Agati V, Parkinson G, Han AS, **Szema A**, Baum D, Estes D, Szabolcs M, Chess L. Immunohistologic analysis of renal CD40 and CD40L expression in lupus nephritis and other glomerulonephritides. *Arthritis Rheum.* 1997 Jan;40(1):124-34. doi: 10.1002/art.1780400117. PMID: 9008608
2. **Szema AM**, Khedkar M, Maloney PF, Takach PA, Nickels MS, Patel H, Modugno F, Tso AY, Lin DH. Clinical deterioration in pediatric asthmatic patients after September 11, 2001. *J Allergy Clin Immunol.* 2004 Mar;113(3):420-6. doi: 10.1016/j.jaci.2003.12.015. PMID: 15007340
3. Concha LB, Chang CC, **Szema AM**, Dattwyler RJ, Carlson HE. IgE antithyroid antibodies in patients with Hashimoto's disease and chronic urticaria. *Allergy Asthma Proc.* 2004 Sep-Oct;25(5):293-6. PMID: 15603201
4. **Szema AM**, Hamidi SA, Lyubsky S, Dickman KG, Mathew S, Abdel-Razek T, Chen JJ, Waschek JA, Said SI. Mice lacking the VIP gene show airway hyperresponsiveness and airway inflammation, partially reversible by VIP. *Am J Physiol Lung Cell Mol Physiol.* 2006 Nov;291(5): L880-6. doi: 10.1152/ajplung.00499.2005. Epub 2006 Jun 16. PMID: 16782752
5. Said SI, Hamidi SA, Dickman KG, **Szema AM**, Lyubsky S, Lin RZ, Jiang YP, Chen JJ, Waschek JA, Kort S. Moderate pulmonary arterial hypertension in male mice lacking the vasoactive intestinal peptide gene. *Circulation.* 2007 Mar 13;115(10):1260-8. doi: 10.1161/CIRCULATIONAHA.106.681718. Epub 2007 Feb 19. PMID: 17309917
6. **Szema AM**, Savary KW, Ying BL, Lai K. Post 9/11: high asthma rates among children in Chinatown, New York. *Allergy Asthma Proc.* 2009 Nov-Dec;30(6):605-11. doi: 10.2500/aap.2009.30.3283. Epub 2009 Sep 18. PMID: 19772715
7. Karpel JP, Peters JI, **Szema AM**, Smith B, Anderson PJ. Differences in physicians' self-reported knowledge of, attitudes toward, and responses to the black box warning on long-acting beta-agonists. *Ann*

- Allergy Asthma Immunol. 2009 Oct;103(4):304-10. doi: 10.1016/S1081-1206(10)60529-7. PMID: 19852194
8. **Szema AM**, Peters MC, Weissinger KM, Gagliano CA, Chen JJ. New-onset asthma among soldiers serving in Iraq and Afghanistan. Allergy Asthma Proc. 2010 Sep-Oct;31(5):67-71. doi: 10.2500/aap.2010.31.3383. PMID: 20929596
9. Hamidi SA, Lin RZ, **Szema AM**, Lyubsky S, Jiang YP, Said SI. VIP and endothelin receptor antagonist: an effective combination against experimental pulmonary arterial hypertension. Respir Res. 2011 Oct 26;12(1):141. doi: 10.1186/1465-9921-12-141. PMID: 22029879
10. **Szema AM**, Salihi W, Savary K, Chen JJ. Respiratory symptoms necessitating spirometry among soldiers with Iraq/Afghanistan war lung injury. J Occup Environ Med. 2011 Sep;53(9):961-5. doi: 10.1097/JOM.0b013e31822c9f05. PMID: 21866049
11. Szema AM, Hamidi SA, Koller A, Martin DW. Vasoactive Intestinal Peptide Knockout (VIP KO) mouse model of sulfite-sensitive asthma: up-regulation of novel lung carbonyl reductase. BMC Immunol. 2011 Nov 21; 12:66. doi: 10.1186/1471-2172-12-66. PMID: 22103391
12. **Szema AM**, Hamidi SA, Golightly MG, Rueb TP, Chen JJ. VIP Regulates the Development & Proliferation of Treg in vivo in spleen. Allergy Asthma Clin Immunol. 2011 Nov 29;7(1):19. doi: 10.1186/1710-1492-7-19. PMID: 22126441
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### **Books/Textbooks for the medical or scientific community**

1. **Szema, Anthony**, Rogue BEE True story of Lt. Col. Darrin Curtis who risked his career trying to stop burn pits in Iraq and Afghanistan Createspace ISBN 978-1450530323 2009

2. **Szema, Anthony** (author and Editor) Unusual Diseases with Common Symptoms: A Clinical Casebook, Springer International Publishing ISBN 978-3-319-58951-0 2018 ISBN 978-3-319-58952-7 (ebook) 2018

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## Non-Peer Reviewed Scientific or Medical Publications/Materials in Print or Other Media

### Other Media

#### International

- 10-6-23 Filming for Elizabeth Dole Foundation at Northwell for Veterans & Clinicians Nexis Letter
- 10-1-23 American Thoracic Society AII Assembly Channel docmatter A Case of Cardamon Anaphylaxis
- 3-28-23 Medpage Today <https://www.medpagetoday.com/opinion/second-opinions/103748>
- 3-18-23 Washington Post <https://www.washingtonpost.com/world/2023/03/18/iraq-burn-pits-pact-act/>
- 1.8-1-21 Neue Zurcher Zeitung (Swiss newspaper in German)  
<https://nzzas.nzz.ch/meistgelesen> Interview about burn pits and NATO forces
- 2.12/2011 Kabul Press U.S. Abandons Toxic Burn Pits as it Withdraws from Iraq and Afghanistan  
<https://www.kabulpress.org/article90870.html>
- 3.7/2011Xinhua (Chinese Media) Breathing problems strike soldiers returning from Middle East  
[http://news.xinhuanet.com/english2010/health/2011-07/22/c\\_131001593.htm](http://news.xinhuanet.com/english2010/health/2011-07/22/c_131001593.htm)
- 4.7/2011 ITN Channel 4, Great Britain, Burn Pits Research
- 5.5/2011 UPI Iraq, Afghanistan wars spawn new disease  
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- 11-8-22 Sirius Satellite Radio with Dr. Frank Adams The Pulmonary Ahow 6:30 a.m.
- 10-1-22 Video for **The Bend Magazine** (Texas) honoring Rosie Torres 2022 Women in the Coastal Bend
- 09-13-22 sirius satellite xm doctor radio pulmonology with Dr. Francis Adams NYU
- 8-25-22 <https://www.northwell.edu/podcasts-newsroom>
- 8-10-22 <https://www.popsi.com/health/pact-act-veterans-burden-of-proof/>
- 8-10-22 abc news PACT ACt signing at White House (seated to left of President Biden)  
[https://urlisolation.com/browser?clickId=8F603C49-2CC2-4066-B394-ECB850AB72CD&traceToken=1650554207%3Bnshs\\_hosted%3Bhttps%3A%2F%2Fwww.legalservicescenter.&url=https%3A%2F%2Fwww.legalservicescenter.org%2Fsenator-gillibrand-veterans-advocates-and-experts-examine-the-legacy-of-burn-pit-exposures-on-the-health-of-military-servicemembers-and-veterans%2F](https://urlisolation.com/browser?clickId=8F603C49-2CC2-4066-B394-ECB850AB72CD&traceToken=1650554207%3Bnshs_hosted%3Bhttps%3A%2F%2Fwww.legalservicescenter.&url=https%3A%2F%2Fwww.legalservicescenter.org%2Fsenator-gillibrand-veterans-advocates-and-experts-examine-the-legacy-of-burn-pit-exposures-on-the-health-of-military-servicemembers-and-veterans%2F)
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<https://www.newsday.com/news/health/burn-pits-legislation-um262e1stps://abcnews.go.com/Politics/biden-signs-pact-act-expanding-streamlining-care-veterans/story?id=88192474>
- 7-21-22 The Post and Courier  
[https://www.postandcourier.com/news/the-va-has-denied-most-veterans-burn-pit-claims-a-new-law-would-help-care/article\\_f4d23444-02e7-11ed-845a-3ffed940f658.html](https://www.postandcourier.com/news/the-va-has-denied-most-veterans-burn-pit-claims-a-new-law-would-help-care/article_f4d23444-02e7-11ed-845a-3ffed940f658.html)
- 3-17-22 Medpage Today  
<https://www.medpagetoday.com/pulmonology/generalpulmonary/97732>
- 3-9-22 NPR  
<https://www.npr.org/2022/03/09/1085223296/sick-veterans-demand-medical-coverage-for-illnesses-caused-by-burn-pits>

2.3-17-22 MEDPAGE TODAY Military Exposure to Burn Pits Under Scrutiny—Wearable technology, better registries, “compassionate common sense” urged over denials of harm  
<https://thehill.com/opinion/healthcare/3579843-veterans-deserve-better-than-congresss-collective-shrug-on-burn-pits/>  
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3.3-16-22 C-SPAN Hearing on Health Effects of Toxic Exposure, Expert Witness U.S. Senate Armed Forces Personnel Subcommittee with Senators Gillibrand, Tillis, and Warren  
<https://www.c-span.org/video/?518678-1/hearing-health-effects-toxic-exposure>

4.03-03-22 National Public Radio (NPR) interview with Quil Lawrence on Presidential State of the Union topic of Burn Pits Legislation for Presumptive Coverage  
<https://www.npr.org/2022/03/09/1085223296/sick-veterans-demand-medical-coverage-for-illnesses-caused-by-burn-pits>

1-16-22 New York Times  
<https://www.nytimes.com/2022/01/11/magazine/military-burn-pits.html>

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11-11-21 E&E News  
<https://www.eenews.net/articles/consistently-denied-can-biden-help-burn-pit-veterans/>

5.11-21-21 E&E News Greenwire interview with Nico Portuondo ‘Consistently denied’: Can Biden help burn pits veterans  
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7.9-11-21 military.com article by Patricia Kime  
<https://www.military.com/daily-news/2021/09/09/pentagon-9-11-attack-survivors-grappled-wounds-defined-era-of-war.html>

8.4-23-21 WKLAS-TV Las Vegas, NV  
<https://www.8newsnow.com/i-team/i-team-special-reports/i-team-henderson-nevada-veteran-41-believes-toxic-burn-pits-gave-him-brain-lung-cancer/> interview about burn pits and lung cancer

9.4-23-21 Newsday “Once-crowded sites have spots in vaccine line” quoted about need for COVID vaccine surge

10.3-10-21 Expert Witness U.S. Senate Committee on Veterans Affairs  
<https://www.veterans.senate.gov/hearings/military-toxic-exposures-the-human-consequences-of-war>

Educational material of curricula developed for non-professional students

11.2-6-21 Stars and Stripes Army vet dies at 36 from cancer believed to have originated from burn pit exposure

12.7-28-20 NBC Philadelphia Interviewee with Jim O’Donnell Burn Pit Legislation and COVID-19

13.7-8-20 The Otolaryngology Show on Sirius xm satellite radio 110 Interviewee with Dr. Eric Voight NYU COVID-19 and the lung

Spring 2020 [Rensselaer Alumni Magazine](#) Engineering Through COVID-19 interviewee

14.10-23-19 Warhorse the Military’s Next Agent Orange interviewee  
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15.9-13-18 NBC 10 Philadelphia Burn Pit Lung Injury interviewee

16.7-20-18 PBS Newshour (cited as doctor of interviewed patient) Iraq and Afghan war vets exposed to toxic air struggle for breath—and a diagnosis

17.7-26-18 Houston Chronicle (work cited) Veterans exposed to battlefield burn pits press VA for care and compensation

18.5-17-18 NY Times Veterans Go Back to Court Over Burn Pits. Do They Have a Chance?  
<https://www.nytimes.com/2018/05/17/magazine/burn-pits-veterans.html>

19.12/2015 Military Times Combat-related lung diseases lack diagnosis guidelines, researchers say  
<http://www.militarytimes.com/story/military/benefits/health-care/2015/12/15/combated-related-lung-diseases-lack-diagnosis-guidelines-researchers-say/76608154/>

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<http://www.thedailybeast.com/articles/2015/02/02/possible-relief-for-vets-sick-from-war-zone-burns-pits.html>

21.11/2014 PBS NewsHour Veterans claim contractor in charge of burn pits is responsible for lung illnesses  
<http://www.pbs.org/newshour/bb/veterans-claim-contractor-charge-burn-pits-responsible-lung-illnesses/>

22.10/2014 Live Well Nebraska "Toxic Battlefield"  
[https://omaha.com/livewellnebraska/health/many-tie-iraq-afghanistan-war-veterans-illnesses-to-burn-pits-dust/article\\_555b84a6-7304-59fd-bd20-389396bc2b25.html](https://omaha.com/livewellnebraska/health/many-tie-iraq-afghanistan-war-veterans-illnesses-to-burn-pits-dust/article_555b84a6-7304-59fd-bd20-389396bc2b25.html)

23.4/2014 KRCG.COM Veteran's Family Blames Cancer Death on Army Burn Pits  
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25.2/2014 Air Force Times Study: Soil dust suspected in illnesses among Iraq vets  
<http://www.airforcetimes.com/article/20140220/NEWS/302200031/Study-Soil-dust-suspected-illnesses-among-Iraq-vets>

26.10/2013 The Verge Ring of fire: why our military's toxic burn pits are making soldiers sick  
<http://www.theverge.com/2013/10/28/4771164/the-next-agent-orange-why-burn-pits-are-making-soldiers-sick>

27.3/2013 CBS Evening News Illness from burn pits a health issue for returning vets  
[http://www.cbsnews.com/8301-18563\\_162-57573445/illness-from-burn-pits-a-health-issue-for-returning-vets/](http://www.cbsnews.com/8301-18563_162-57573445/illness-from-burn-pits-a-health-issue-for-returning-vets/)

28.1/2013 Blog talk radio All Fired Up-Military Monday w/Host Betty Kilbride

10/2012 The American Conservative The New Agent Orange?  
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29.5/2012 Wired.com Combat 'Burn Pits' Ruin Immune Systems, Study Shows

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<http://newsarchive.medill.northwestern.edu/chicago/news.aspx?id=202996> (MOVED)

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35.7/2011 CBS Early Show Research in Szema Lab on Iraq/Afghanistan War Lung Injury

36.7/2011 Science News Something in the air may cause lung damage in troops  
<https://www.sciencenews.org/article/something-air-may-cause-lung-damage-troops>

37.7/2011 CBS News Lung problems for deployed veterans  
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38.7/2011 CBS Radio KLRD Dallas, TX with Mitch Carr Burn Pits Research

39.6/2011 Scientific American Global RSS Doctors Prepare to Explain and Treat Climate-Related Symptoms

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<http://www.nytimes.com/cwire/2011/06/15/15climatewire-doctors-prepare-their-professions-to-explain-8660.html>

41.6/2011 Virginia Quarterly Review Interview with Malcolm Garcia about Burn Pits



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[http://www.nytimes.com/2011/06/20/us/20lungs.html?\\_r=2&hp&\\_hpt=hp](http://www.nytimes.com/2011/06/20/us/20lungs.html?_r=2&hp&_hpt=hp)

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<https://www.wsj.com/articles/SB10001424052748704681904576321252232711310>

44.5/2011 Newsday "On Long Island Allergy Agony"

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[http://www.usatoday.com/NEWS/usaedition/2011-05-12-Dustcover\\_CV\\_U.htm](http://www.usatoday.com/NEWS/usaedition/2011-05-12-Dustcover_CV_U.htm)

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49.5/2011 DOD Live Medical Monday: Setting the Record Straight on Sand

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50.4/2011 HDNet Dan Rather Reports on Burn Pits in Iraq and Afghanistan

51.4/2011 Newsletter of the American Thoracic Society's Washington Office

ATS Testifies before the House Interior/Environment Appropriations Subcommittee

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## **Narrative Report**

My national reputation of excellence in clinical care, research, and advocacy/education for Hofstra/Northwell is for discovering Iraq Afghanistan War Lung Injury (IAW-LI), for which I testified for the Northwell Health pulmonary division before the U.S. Senate Veterans Affairs Committee in March 2021, in support of presumptive benefits for warfighters deployed to Iraq and Afghanistan with exposure to airborne hazards such as burn pits, improvised explosive devices, sandstorms and blast overpressure from mortar fire. I served as an expert witness before the U.S. Senate Armed Services Committee March 16, 2022, to discuss my recommendations for force health protection from burn pits and airborne hazards of war. Over a dozen bipartisan bills supporting soldiers then led to the passage of the \$450 Billion PACT ACT signed by President Biden for which I was invited to the White House for its signing August 10, 2022. I was part of the Distinguished Speakers Series at Harvard Law School February 16, 2022, on the topic of Burn Pits and Veterans Health Presumption with Senator Kirsten Gillibrand. The Medical Society of the State of New York awarded me the Albion Bernstein Award "For his life-long commitment to the field of allergy, asthma, immunology and pulmonary diseases and his dedication to the health of American servicemen and women 9-12-13 presented by President Sam Unterriicht, M.D." President Obama signed the Open Air Burn Pit Registry law based on a bill from Congressman Tim Bishop who cited my team's research in discovering the disease, characterizing clinical phenotype, making animal models, and designing therapeutic agents. I am funded by the Department of Defense for animal models and clinical research regarding burn pits. Our recent paper in *Scientific Reports* shows jet fuel and polycyclic aromatic hydrocarbons in lung tissue from burn pit exposed veterans is associated with airways hyperresponsiveness and distal airways narrowing by impulse oscillometry, which is not detectable by spirometry.

I am funded by the CDC NIOSH and the NIH with the Columbia University Global Psychiatric Epidemiology Group for studies of children exposed to the disaster of the World Trade Center. My team was the first to describe pediatric asthma rate acceleration and persistent lung injury in New York City's Chinatown post 9/11 and our ongoing studies are the first federally funded grants to investigate long-term mind-body damage and immunological/pulmonary mechanisms of harm and resilience. My book **World Trade Center Pulmonary Diseases and Multi-Organ System Manifestations** is the first textbook on the subject.

Since my mentor, Distinguished SUNY Professor Sami I. Said, M.D., discoverer of Vasoactive Intestinal Peptide (VIP) trained me, I have received an NIH K08 award, and was a co-investigator on an R21 studying inflammation among 9/11 rescue workers post Hurricane Sandy, and a PI on a NIH Lung Tissue Research Consortium award allowing study of VIP, and have had two New York State Manufacturing awards (one active) which have fostered the invention of a novel candidate drug that reverses lung fibrosis in mice, which is patent pending and the subject of an SBIR application. These successes were enabled by my participation in Dr. Said's FDA safety grant study of VIP for sepsis related lung injury at Stony Brook. My startup company is the winner of Startupalooza New York City and was a finalist in the Hamptons Shark Tank contest called Riptide.

As a mentor myself, my efforts as a medical educator have been summarized in part in **15 Secrets for Getting into Medical School (Go to Yale without Going to Jail)** as my students have been accepted to top medical schools throughout the U.S. Our teamwork in the outpatient, inpatient, and research settings has been recognized by Superdoctors® New York Times supplement annually since 2013.