

Curriculum Vitae

2/15/08

Ritchie C. Shoemaker, M.D.
DOB: 06-13-51 Charlotte N.C. US Citizen
Home address: 2448 Lakeland Drive, Pocomoke, Maryland 21851

Current Employment

Ritchie C. Shoemaker MD. PA. DBA Chronic Fatigue Center
President, ChronicNeurotoxins, Inc
Medical Director, Center for Research on Biotoxin Associated Illnesses (501-c-3, non-profit corp.)

College: Duke University 1969-1973 Magna Cum Laude
Major in Molecular Biology, Zoology. Minor in Philosophy.

Theses:

- Microtubule control of phototactic responses in *Euglena*, 1971.
- Localization of DNA replication sites in *Tetrahymena* by electron microscopy, autoradiography and tritiated thymidine counts, 1972.

Medical School: Duke University 1973-77

Editor – “First Contact” Medical Student Primary Care Journal

Theses

- Molecular basis for muscle injury and repair 1974
- Ventilation-perfusion abnormalities in chronic lung disease 1975
- Epidemiology of *streptococci* 1976

Residency 1977-80

Family Practice Residency, The Williamsport Hospital, 777 Rural Ave, Williamsport, PA 17013

Board Certification ABFP 1980

MD License 1980 to present. D24924

Professional Memberships

- AMA 2001-present
- ACSM 1977-1996
- American Society of Bariatric Physicians 1998-2001
- American Academy of Family Physicians 1999-2001
- American Society for Microbiology 1999-present
- American College of Occupational and Environmental Medicine 2/6/05-2/6/06
- American Society of Tropical Medicine and Hygiene 11/05-present
- International Lyme and Associated Disease Society (ILADS) 2000-2003
- International Association for Chronic Fatigue Syndrome 4/05-present
- Maryland Medical Chirurgical Association (Med Chi) 1980-present
- Maryland Academy of Family Physicians 1999-2001

Practice Experience

- 7/1980-9/1982 NHSC Pocomoke, Maryland.
- 10/1982 to present, Private Practice, Pocomoke, Maryland
Outpatient Family Medicine
1604 Market St 10/1982-5/2002
500 Market Street, Suites 102,103 5/2002-present
Pocomoke City, Maryland 21851

Teaching Appointments

- Milton Hershey Medical School 1980-90, Physician Assistant Preceptor;
- Johns Hopkins Medical School 1981-86;
- Duke University Medical School 1983-85;
- Wilmington College Nurse Practitioner Program 1996-1997;
- University of Maryland Medical School 1997-present.

NB: These appointments are for community preceptorships only and are not salaried

Hospital Affiliation. Active Staff, McCreedy Hospital, Crisfield, Maryland 1980-1986; 1997-6/2003, courtesy 1986-1997; and 7/2003-present, pure outpatient practice (no demands to reduce privileges).

Medical Society

- President, Somerset County 1982-86
- Member, Worcester County 1986-1997
- President, Somerset County 1998-present

Credentialed By

- Medicare, Medicaid, BCBS, MDIPA, DHP, Alliance, Prudential, Principal, Aetna American Health Care, Infor Med, PHCS, Trigon, many others.
- Never denied credentials

Additional work experience

Shoemaker's Bench, Antique Refinishing and Restoration 1966-present. Historic Remodelers of the Eastern Shore 1981-present. Wetland Consultant 1983-present. Visiting Medical Lecturer 1991-present.

Website

www.chronicneurotoxins.com 4/00-present
www.moldwarriors.com 10/04-present

Books published

- Pandora Boxer (philosophy) 1972 (out of print)
- Hematology for Residents 1978 (out of print)
- Weight Loss and Maintenance; My Way Works, Does Yours?
 - First printing 1996; Second printing 1998.
- Pfiesteria: Crossing Dark Water
 - First printing 1997; Second printing 1998
- Desperation Medicine
 - 1/15/01 Second printing 6/06
- Lose the Weight You Hate
 - First printing 2/02; Second printing 10/05
- Mold Warriors 4/05; second printing 12/2007
- Books in preparation:
 - A Users Guide to Native Shrubs and Trees of the Eastern Shore
 - From Farm to Estuary; A Chesapeake Bay Ecology Cookbook

It's a Long Way From Pocomoke; This One's For You, Jack.
Surviving Mold: Life in the Era of Dangerous Buildings

Columnist Worcester County Messenger weekly newspaper; "What's Cooking" 1994-2001

Editorials Published

Daily Times of Salisbury (many), Maryland Environmental Health Newsletter, Outlook (op-ed) Washington Post, Baltimore Sun, Multiple Florida Newspapers, Runoff Magazine, CCA Journal, Feature article with Duke Alumni Magazine, Family Practice News, Internal Medicine News, OB-GYN News, Delmarva Farmer (many), Asbury (NJ) Press (Op-ed).

National television appearances

Good Morning America, BBC, Australian Broadcasting System, NBC News, CBS News, Discovery Health Channel: "Dangerous Catch" and "Is Your House out to Get You;" CNN, ABC News

Local TV stations

Multiple: Salisbury, Md., Washington, DC, Baltimore, Md, Stuart, Florida, Philadelphia, Pa, Leesburg, Florida, New Orleans, Louisiana

Publications:

- "The Death of Edgar Allen Poe" What Really Happened MMJ 4/97
- Diagnosis of *Pfiesteria* Human Illness Syndrome, Maryland Medical Journal 1997; 46(10): 521-3.
- Treatment of Persistent *Pfiesteria* Human Illness Syndrome, MMJ 1998; 47(7): 64-66.
- Co-author, Grattan et al, Lancet 1998; 352: 532-41. Learning and memory difficulties after environmental exposure to waters containing *Pfiesteria* or *pfiesteria-like* dinoflagellates.
- Hippocrates 2000; February, Viewpoint Housecall: A crisis in the air restores a physician's faith in medicine
- Possible Estuary-Associated Syndrome, Environmental Health Perspectives 2001; 109(5): 539-545. Grand Rounds in Environmental Medicine
- Residential and Recreational Acquisition of Possible Estuarine Associated Syndrome: A New approach to Successful Diagnosis and Therapy, Environmental Health Perspectives, Special CDC *Pfiesteria* Supplement, 2001; 109S5; 791-796.
- How Sick is Your Building and What You can do About it, Filtration News, June, 2001
- Getting Inside Sick Building Syndrome, Filtration News, July, 2001
- American Diabetes Association, Diabetes 2002; 51(2) Supplement: A133. Use of pioglitazone to prevent intensification of persistent symptoms following cholestyramine treatment of patients with Post-Lyme syndrome
- A Primer in Sick Building Syndrome: Lessons from the Somerset County District Court, Filtration News June, 2002
- Lyme Times 2002; 33: 13-16. Lyme, an Infectious Disease and a Neurotoxin Illness.
- Lyme Times 2002; 33: 38-40. Someone Has to Tell; a patient's story.
- Environmental Health Perspectives 2002; 110: A121-A123, letter. Visual contrast sensitivity, response.
- Environmental Health Perspectives 2003; 111(1): A18-19, letter. Neuropsychologic Testing versus Visual Contrast Sensitivity: Response.
- Medical Conditions Arising From Environmental Conditions, interview, Filtration News, July 2003
- Moldy buildings: It's a jungle in there. Filtration News, Nov 2004
- Neurotoxicology and Teratology, January 2005. R. Shoemaker and D. House, A time-series of sick building syndrome; chronic, biotoxin-associated illness from exposure to water-damaged buildings. Neurotoxicology and Teratology 2005; 27(1) 29-46.
- Sick Building Syndrome in water-damaged buildings: Generalization of the chronic biotoxin-associated illness paradigm to indoor toxigenic fungi; 5/2005; Pg 66-77 in Johanning E. Editor, Bioaerosols, Fungi, Bacteria, Mycotoxins and Human Health. R Shoemaker, JM Rash, EW Simon.
- To Build a Safe House, Filtration News, June 2005

- Defining Sick Building Syndrome in adults and children in a case-control series as a biotoxin-associated illness: diagnosis, treatment and disorders of innate immune response, MSH, split products of complement. IL-1B, IL-10, MMP9, VEGF, autoimmunity and HLA DR; American Society of Tropical Medicine and Hygiene; 12/14/05
- C3a and C4a: complement split products identify patients with acute Lyme disease; ASTMH, 12/4/05
- MMP9, visual contrast sensitivity, C3a, C4a and HLA DR: New diagnostic aids in acute and chronic Lyme disease, ASTMH, 12/14/05
- Atovaquone plus cholestyramine in patients co-infected with *Babesia microti* and *Borrelia burgdorferi* refractory to other treatment, *Advances in Therapy* 2006; 23(1): 1-11. Shoemaker RC, Hudnell KH, House DE, van Kempen A, Pakes GE for the COL 40155 Study Team.
- American Society for Microbiology Biodefense Research meeting 2/16/06 Hyperacute physiological changes following prospective exposures to environmental sources of trichothecene toxins in water-damaged buildings (WDB): a Stealth toxin is revealed.
- SBS and exposure to water damaged buildings: time series study, clinical trial and mechanisms; submitted, *Neurotoxicology and Teratology* 3/27/06, accepted for publication 7/31/06. R Shoemaker, D House. Internet location: doi: 10.1016/j.ntt.2006.07.003. Published as *NTT* 2006; 28: 573-588.
- Mold Illness after Katrina: The truth you haven't heard. *Filtration News*, May, June 2006
- AAAAI; rebuttal to Bush position paper, endorsed by >100 PhD and MDs; submitted 5/06, accepted 7/8/06, *JACI* 2006; 118: 764-766. Co-authors: Harriett Ammann PhD; Richard Lipsey PhD; and Ed Montz PhD.
- ASTM International, Section D22, Boulder Colorado 7/27/06. Bringing science to bear on moisture and mold in the built environment. "Defining causality of a biotoxin-associated illness by exposure to water-damaged buildings: a case control series."
- ASTMH 11/06 (accepted) Defining chronic ciguatera illness by abnormalities in innate immune responses: final common pathways of biotoxin-associated illnesses
- ASTMH 11/06 (accepted) Eight year follow-up of patients with Possible Estuarine Associated Syndrome (PEAS): symptom reduction didn't result in cure
- International Association for Chronic Fatigue Syndrome 1/14/07. Treatment of elevated C4a in patients with CFS using low doses of erythropoietin safely reduces symptoms and lowers C4a: a prospective clinical trial.
- International Association for Chronic Fatigue Syndrome 1/14/07. Treatment of CFS patients with elevated C4a using low dose erythropoietin corrects abnormalities in central nervous system metabolites and restores executive cognitive functioning.
- International Association for Chronic Fatigue Syndrome 1/14/07. Treatment of CFS patients with low levels of vasoactive intestinal polypeptide (VIP) and shortness of breath with tadalafil improves exercise tolerance and pulmonary artery pressure responses to exercise.
- Inside Indoor air quality 4/15/07, with King-teh Lin PhD. *Filtration News* May/June 2007.
- 10/3/07 *Allergy Clin Immunol Int: J World Allergy Org* 2007 Supplement 2. C3a and C4a: Complement split products identify patients with hyperacute Lyme disease.
- 10/14/07 IAQA, Las Vegas, Nevada. Sequential activation of innate immune elements: a health index for people re-exposed to water-damaged buildings.
- ASTMH 11/07. Correction of central nervous system metabolic abnormalities, deficits in executive cognitive functioning and elevated C4a: a clinical trial using low dose erythropoietin in patients sickened by exposure to water-damaged buildings.
- ASTMH 11/07. Sequential upregulation of innate immune responses during acute acquisition of illness in patients exposed prospectively to water-damaged buildings.
- ASTMH 11/07. Defining mold illness in children: a chronic inflammatory illness with distinctive biomarkers.
- *International Archives of Allergy and Immunology*, 2008; 146: 255-261. C3a and C4a define acute Lyme disease. Shoemaker RC, Giclas P, Glovsky M.
- *Indoor Environmental Communications* 1/08. Shoemaker RC and Lin, Kin-the. The ever-expanding data base on pathophysiology of illness caused by exposure to water-damaged buildings.

Peer reviewer:

Environmental Health Perspectives; Special CDC Pfiesteria issue, 2001; comment on fungal illness 2007
 Environmental Research; 2003, 2004
 Journal of Nutritional and Environmental Medicine 2007 (small colony variants. MARCoNS)
 Heart and Lung 2007 (Babesia as FUO)
 Health Policy. 2/08. The relationship between sick building syndrome and perceived indoor environmental quality in apartment buildings

Graduate degree examiner

University on Newcastle, Australia 10/04. Delta hemolysins production of long-term *Staphylococcus epidermidis* cultures. Hai Lin, Environmental and Life Sciences.

Presentations:

- **4/10/00** Regional Meeting American Society of Microbiology, Lewes, Delaware.
A new approach to diagnosis and treatment of chronic Lyme disease: vision, cytokines, and cholestyramine.
- **5/10/00**- Chico, Calif. Lyme disease as a Neurotoxin and Cytokine-Mediated Illness
- **9/21/00** Lewes, Delaware. Center for the Inland Bays “*Pfiesteria* Human Illness Syndrome and Blue Green Algae Syndrome: Emerging Estuarine Health Threats”
- **9/24-25/00** Tallahassee, Florida. Florida Department of Environmental Protection Diagnosis and Treatment of a chronic neurotoxin-mediated illness from an unknown microbe at the Casteen Roads.
- **11/4/00**, Princeton, New Jersey. Annual Scientific Conference of the Lyme Disease Association Hypoperfusion of retina and neural rim of optic nerve head as biomarker for the chronic neurotoxin-mediated illness of Lyme disease.
- **10/25/00** American Psychiatric Association, Annual Meeting, Philadelphia, PA. Environmental Acquisition of Psychiatric Illness
- **10/30/00** Annual Meeting of American Society of Tropical Medicine and Hygiene, Houston, Texas.
A new approach to diagnosis of chronic *ciguatera* illness and successful treatment with cholestyramine
- **6/01/01** Delaware Medical Society, Lewes, Delaware. Approach to Diseases Caused by Neurotoxins
- **11/09/01** Lyme Disease Association, Princeton, NJ. Acute Lyme Disease
- **11/10/01** ILADS. Princeton, NJ, Co-infection with apicomplexans and Lyme, role of extrachromosomal plastid DNA and persistent symptoms
- **11/30/01** International Society of Neurobiology, Seattle, Washington. Neurotoxins and solutions to questions raised by chronic fatiguing illnesses
- **2/14/02** American Academy of Environmental Medicine, St. Louis, Missouri, an 8 hour tutorial. Challenges to Clinical Paradigms: Cytokines, neurotoxins and vision
- **6/24/02 8th** International Symposium of Neurotoxicology, Brescia, Italy. Co-Chair (with Ken Hudnell, Ph.D.) of Biotoxin Session. Three lectures: Sick Building Syndrome: Possible Association with Exposure to Mycotoxins from Indoor Air Fungi (to date, the largest study on SBS in the world’s literature, 103 patients and 43 buildings); Use of pioglitazone to prevent intensification of persistent symptoms following cholestyramine treatments of patients with Post-Lyme Syndrome: the multisite trial. Metallic Taste, a marker of neurotoxicity.
- **9/17/02** Environmental and Occupational Health Sciences Institute, Occupational Medicine Residency Program, Robert Wood Johnson Medical School, Piscataway, NJ; Neurotoxin mediated illnesses: A new approach to medically unexplained symptoms.
- **9/20/02** International College of Integrative Medicine, Grand Rapids, Michigan. Neurotoxins, hypothalamic hormones and chronic fatiguing illnesses
- **11/15/02 ASTMH** Denver, Colo, Use of atovaquone and cholestyramine in patients co-infected with *Borrelia burgdorferi* and *Babesia microti*, refractory to all antibiotic regimens (GlaxoSmithKline funded research).
- **12/6/02 Faculty** member, National panel, Wright State University, Michigan. Interim clinical guidelines for the diagnosis and treatment of mold associated medical disorders; presented, “A new paradigm for diagnosis and treatment of Sick Building Syndrome, a biotoxin associated illness.”

- **2/20/03 Univ Connecticut**, Pathobiology seminar, “Biotoxins, vision, inflammatory cytokines and hypothalamic hormones in primary care medicine: From Post-Lyme Syndrome to Sick Building Syndrome, a new paradigm for medically uncertain symptoms.
- **7/11/03 Harris Chain of Lakes Restoration Commission**, Lake County, Florida. St. John’s River Water Management District, invited lecture: Human health effects following exposure to toxigenic cyanobacteria: diagnosis, treatment and environmental implications
- **9/10/03 5th International Conference on Bioaerosols, Fungi, Bacteria, Mycotoxins and Human Health**, Saratoga Springs, NY (peer reviewed). Sick building syndrome in water damaged buildings: Generalization of the chronic biotoxin associated illness paradigm to indoor toxigenic fungi (156 patients in 150 buildings).
- **9/25/03 13th annual Environmental Information Association. Myrtle Beach, SC**, keynote. The clear link between mold exposure and human health: What you need to know
- **10/30/03 Mold 5 National Institute of Building Sciences, Building envelope and thermal environment committee**, San Diego, Cal, keynote, Human health effects from exposure to toxigenic fungi: The proof of causation is here.
- **11/25/03 Crossing boundaries: Medical Biodefense and Civilian/Military Medicine; First International conference, sponsored by George Mason University, National Center for Biodefense and Georgetown University**, Arlington, Va. Diagnosis and Treatment of Biotoxin Associated Illnesses: Learning for the future from Today’s Example
- **12/02/03 Special Report to the Federal Research Committee on Gulf War Illness**. Gulf War Illness as a Biotoxin Illness: Report of a cohort of exposed veterans.
- **1/10/04 Invited speaker, National Center for Biodefense, George Mason University**. Physiology of chronic biotoxin illness.
- **4/30/04 American Society for Microbiology, Integrating Metabolism and Genomics**, Montreal, Quebec. Linkage disequilibrium of HLA DR genotypes, autoantibodies and wingspan/height ratios in patients with environmentally acquired toxigenic illness
- **5/25/04 104th General meeting of American Society for Microbiology**, New Orleans, Louisiana. Melanocyte Stimulating Hormone (MSH) Deficiency in Chronic Fatigue Syndrome Associated with Nasal Carriage of Coagulase Negative Staphylococci
- **6/22-23 2004 Mealey’s National Mold Litigation Conference**, Orlando, Florida. Invited speaker, Emerging medical issues in mold illness.
- **10/8/04 American (now International) Association for Chronic Fatigue Syndrome**, Madison, Wisconsin. Chronic Fatigue Syndrome: Lessons from the Biotoxin Pathway
- **12/4/04 Johns Hopkins University, Occupational and Environmental Medicine Conference**, Chronic Illness from Water-Damaged Buildings: Just Another Stop Along the Biotoxin Pathway
- **12/9-10/04 Mealey’s Construction Defect and Mold Litigation Conference, Las Vegas, Nevada**, Why the Institute of Medicine Report is Stale
- **9/6-10/05 International Symposium on Cyanobacteria and Harmful Algal Blooms**, US EPA Research Triangle Park, NC. Characterization of chronic human illness associated with exposure to cyanobacterial harmful algal blooms predominated by *Microcystis*
- **11/2/05 Mid-Shore Lyme Disease Association**, Acute and chronic Lyme disease: lessons from the Biotoxin Pathway. Easton, Maryland.
- **2/16/06 Drexel University School of Medicine, Philadelphia, Pa. Visiting professor series**. It’s a Long Way from Pocomoke
- **3/4/06 CAM Expo East, NYC, NY**. Physiology of fibromyalgia and Chronic Fatigue Syndrome
- **3/25/06 Mid-Shore Lyme Disease Association**, Easton, Md. Rise of the innates; Lyme disease 2006: lessons from a billion years ago
- **4/1/06 Third Annual Mold Conference**, Houston, Texas. Mold Illness: So What do We Really Know?
- **5/6/06 American College for Advancement in Medicine**, Dallas Texas. Lyme disease update: Rise of the innates
- **6/28/07 Quarterly Medical Director’s Conference; Department of Mental Health Services, State of Virginia**, “Inflammatory central nervous system illness caused by environmental exposures presenting as psychiatric illness.”
- **8/6/07 International CFS leaders conference**, Sonoma County, California. “Shoemaker for dummies.”

- **12/6/07** National Toxicology Program NIEHS, RTP, NC. Physiologic disturbances and causality in patients with illness acquired following exposure to water-damaged buildings
- **4/12/08** Lyme and autism, LIA Foundation, “What biotoxins do to inflammation and brains.” Fort Lee, NJ
- **6/2/08** AIHA continuing education program Round Table, Minneapolis; Steve Vesper, Greg Boothe, Gil Cormier King teh Lin co-panelists. Integrating Field, Laboratory and Clinical data for the IAQ investigation. Comparison of indices of human health and building healthy: SAIIE meets ERMI.
- **6/15/08** 7th International Conference on Neurotoxicology, Costa Rica. Human health effects of acute and chronic exposure to toxigenic cyanobacteria. EPICOH-NEUREOH.

Posters:

- 12/10/98** Georgetown Center for Food Policy, Washington, D.C.
1. *Pfiesteria*; Diagnosis and Treatment
 2. Environmental Factors Contributing to *Pfiesteria* Blooms
- 6/15/99** Maryland Academy of Family Practice Annual Meeting
1. *Pfiesteria* Human Illness Syndrome
 2. Use of Troglitazone in Treatment of Hyperinsulinemic Obesity
- 5/01/00** Association of Research in Vision and Ophthalmology, Fort Lauderdale, Florida.
1. Use of Contrast Sensitivity in Diagnosis of Chronic Neurotoxin-Mediated Illness
- 6/4/00** US EPA National Health and Environmental Effects and Research Lab
1. Human Health and Environmental Indicators
 2. Possible Estuarine Associated Syndrome, Diagnosis and Treatment
- 10/18/00** CDC National Pfiesteria Conference Stone Mountain, Georgia
1. Evidence of Successful treatment of the chronic neurotoxin-mediated illness of Possible Estuarine Associated Syndrome
 2. Possible *Cylindrospermopsis* Associated Human Illness Syndrome
- 6/20/01** 81st Meeting of Endocrine Society, Denver, Colorado
1. Use of Rosiglitazone in Treatment of Hyperinsulinemic Obesity (SmithKlineBeecham funded research)
- 6/15/02** San Francisco, American Diabetes Association
1. Use of Pioglitazone to Prevent Intensification of Persistent Symptoms following Cholestyramine Treatment of Patients with the Post-Lyme Syndrome (Takeda Pharmaceuticals North America, funded research)
- 11/15/02** Denver, Colorado, ASTMH
1. Differential Association of HLA DR by PCR Genotypes with Susceptibility to Chronic, Neurotoxin-Mediated Illnesses
- 9/10-9/12/03** Saratoga Springs, NY 5th International Conference on Bioaerosols, Fungi. Bacteria, Mycotoxins and Human Health.
1. Sick Building Syndrome, diagnosis and treatment of a biotoxin associated illness with multiple biomarkers: prospective confirmation of causation in 156 patients from 150 buildings using 11 different biomarkers
- 10/8/04** American Association for Chronic Fatigue Syndrome, Madison, Wisconsin
1. Chronic Fatigue Syndrome: Lessons from the Biotoxin Pathway;

CME Speaker:

- 6/20/00** Maryland Academy of Osteopathic Physicians, Ocean City, Maryland Annual Meeting.
1. A physician's approach to diagnosis and treatment of chronic neurotoxin-mediated illnesses.

American Society of Bariatric Physicians:

- 4/10/99** Phoenix, Arizona Regional Meeting
1. Use of troglitazone in treatment of hyperinsulinemic obesity.
- 10/30/99** Las Vegas, Nevada. Annual Meeting
1. Rational use of the Glycemic Index
- 5/10/00** Portland, Oregon, Regional Meeting
1. Environmental acquisition of defects in insulin receptor physiology

- 10/4/00** Washington, D.C. Annual Meeting
1. Hypoperfusion, tumor necrosis factor alpha and environmental acquisition of diabetes and obesity
- 4/15/01** Houston, Texas.
1. Use of Rosiglitazone in treatment of Hyperinsulinemic Obesity in Non-Diabetics
- 4/15/99** WV Academy of Physician Assistants, Davis, WV.
1. The No-Amylose Diet

Congressional testimony: House of Representatives 9/22/04 staff briefing and press conference Member John Conyers; Health effects of exposure to water-damaged buildings; US Senate staff meeting 1/12/06, Human health effects of mold exposure, Senator Edward Kennedy.

Maryland Senate testimony: Commentary on indoor air quality task force at invitation of Senator Rob Garagiola 3/29/06

IRB Studies

- a. SmithKline Beecham 9/99 IRB: Quorum
Use of rosiglitazone in treatment of hyperinsulinemic obesity.
- b. Glaxo Wellcome 10/00 IRB: Copernicus Group
Use of Mepron (atovaquone) in patients with *Borrelia burgdorferi* coinfecting with *Babesia microti* refractory to antibiotics and cholestyramine.
- c. Protocol IND 63,993 Use of Melanocyte Stimulating Hormone in Patients with Chronic Fatigue
- d. Protocol SBS 51326 Use of visual contrast sensitivity testing and cholestyramine therapy in diagnosis and treatment of environmentally-acquired, chronic, neurotoxin-mediated illness from indoor exposure IRB Copernicus 7/23/02
- e. SPL-CFS 123 Treatment of Chronic Fatigue Syndrome in patients with nasal colonization of multiply antibiotic resistant, biofilm-forming species of coagulase negative Staph using nasal instillation of diluted Staphage Lysate® IRB Copernicus 11/27/03
- f. Retrospective use of laboratory results in a report of group results: Complement split products C3a, C4a, MMP9 and visual contrast sensitivity are markers for acute acquisition of Lyme disease. IRB Copernicus Group, 9/8/05
- g. Retrospective use of individual laboratory results in a report of group results: Defining Sick Building Syndrome in adults and children as a biotoxin-associated illness. IRB Copernicus Group 10/20/05
- h. Retrospective use of individual laboratory results in a report of group results: Eight-year follow-up of Possible Estuarine Associated Syndrome cases and controls. IRB Copernicus Group 11/7/05

Lecturer Medical Mutual Insurance Company 2/00 Risk Management in Primary Care

Awards

- American Academy of Family Practice, Finalist, National Family Practice Physician of the Year, 2002
- Maryland Family Practice Doctor of the Year 2000, MAFP
- Maryland Governor's Volunteer of the Year for the Environment, 4/97
- Local Governor's Advisory Committee for Innovation and Restoration of Chesapeake Bay 1994
- State of Maryland Bill Jones Environmental Award 1995
- Maryland Dept. Agriculture Conservator of the Year 1994
- Good Neighbor Award 1993
- Dr. Henry P. and M. Page Laughlin Award for Distinguished Authorship/Editorial Award 5/98
 - (Maryland Medical Journal)

Commencement Speaker

- Malcolm Grow Medical Center (Andrews AFB 6/98)

CME Speaker

- Audio Digest Vol. 47 No. 22 6/99 Washington D.C.
- Audio Digest Vol. 48 No. 14 12/99 Washington D.C.

Internet links

- <http://www.ImmuneSupport.com/library/showarticle.cfm/id/4291/searchtext/neurotoxins/>.
- <http://www.ImmuneSupport.com/library/showarticle.cfm/id/3990/searchtext/neurotoxins/>.

Patents applications, provisional

- PAI-1 and TNF as markers for the inflammatory basis of type II diabetes, obesity and atherosclerosis. US Provisional patent Serial no 60/356,541
- Use of alpha melanocyte stimulating hormone to treat patients with chronic fatigue syndrome. US Patent Provisional Serial no.: 60/356/539.
- Use of thiazolidinediones as an adjunct to diet in treatment of hyperinsulinemic obesity; importance of the No-Amylose diet. US Patent Provisional Serial no.: 60/356,690
- Pretreatment of patients with Post-Lyme Syndrome with pioglitazone before use of cholestyramine prevents intensification: Vision, neurotoxins and cytokines. US Patent Provisional Serial no.: 60/333,335

Completed Patent application

- “Methods for treating or inhibiting Sick Building Syndrome, Post-Lyme Syndrome, and/or Chronic Fatigue Syndrome.” Inventors Ritchie Shoemaker MD and H. Kenneth Hudnell, Ph.D. PCT Patent application no PCT/US03/04137

Health Investigations and treatment, cohorts of patients exposed to toxigenic fungi (> 4 patients)

- Glenwood Springs, Colorado. Robert Cordova, leader of cohort. 7/28/06 14 patients.
- Fraternal Order of Police; Queen Anne’s County, Maryland 5/06 8 patients
- St. Bernard Parish, Louisiana, on the Scotia Prince 2/06; conjoint investigation with Richard Lipsey, PhD; firefighters, homeless adults and children, Parish employees, ship’s crew and health care workers 212 patients
- Residences at the Ritz; Ritz Carlton 1155 and 1111 23rd St NW Washington DC 8 patients
- Newmarket Courthouse, Toronto, Ontario, Canada. 12/04-present; 300 employees at risk
- International Marine Terminal, Portland, Maine. 11/05. 16 patients.
- Topsail (NC) School District. 9/04. 260 patients.
- Prince Georges County Fraternal Order of Police; Oxon Hill, Md. 6/03. 52 patients.
- Hampton Bays United Free Elementary School, Long Island, NY. 5/03. 44 patients.
- State Iowa Dept Corrections, Davenport, Iowa. 1/03. 10 patients.
- Baltimore-Washington Conference United Methodist Church, Columbia, Md. 12/02. 55 patients
- Eastern Correctional Institution, Westover, Md. 5/02. 11 patients.
- Accomack County (Virginia) Social Services Building. 4/02. 11 patients.
- Multi-Services Building 201 Baptist St., Salisbury, Md. 4/02. 20 patients.
- Police Department Berlin, Md. 4/02. 5 patients.
- Somerset County Library, Princess Anne, Md. 2/02. 13 patients.
- Somerset County Circuit Court, Princess Anne, Md. 10/01. 5 patients.
- Somerset County District Court, Princess Anne, Md. 6/01. 12 patients.
- Worcester County Board of Education Newark, Md. 5/99. 8 patients.
- Wicomico County Sheriffs Department, Salisbury, Md. 2/99. 25 patients.

Papers in preparation

- Biofilm formation makes multiply antibiotic resistant coagulase negative staphylococci pathogens in low MSH patients
- Pediatric mold illness: inflammatory links to autoimmunity
- HLA in illness and disease: equilibrium dissociation and biotoxin illness susceptibility