Scott M. Drouin, Ph.D.

Principal Consultant

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Background

Dr. Scott Drouin is a principal toxicology consultant with over 25 years of experience in Toxicology, Immunology, Lung Physiology, infectious disease, food testing, and laboratory sciences.

As part of the Rimkus Toxicology and Food Safety practice group, Dr. Drouin leads cases involving exposure to drugs, alcohol, and contaminants in food; as well as human exposure to environmental substances; and employs toxicological principles to corroborate medical facts documented in exposure cases against known health endpoints to substantiate allegations and determine alternative causation.

Dr. Drouin specializes in cases investigating respiratory diseases. Specifically, those related to airborne exposure to environmental substances including viruses (COVID-19), bacteria, mold, chemicals, asbestos, and carcinogens. His specialty lies in assessing the risk of developing respiratory illnesses, pneumonia, environmental allergies, asthma, and lung diseases from exposures to such environmental contaminants. Furthermore, Dr. Drouin can evaluate clinical testing procedures related to lung diseases and, by applying toxicological principles to these cases, can tie in the medical documentation as it may or may not relate to the alleged exposure. Air is a dynamic medium and constantly changing, as is the diversity and concentration of contaminants it contains at any one time. Thus, Dr. Drouin also evaluates respiratory exposure potential from a global perspective to help the client understand the potential alternative causation and can communicate these complex issues to the client.

Dr. Drouin's work as an expert witness and litigation support has involved a diverse set of toxicological issues in the areas of workers compensation, toxic tort, environmental exposure, drug and alcohol, and allegations of environmental exposure due to product contamination.

Dr. Drouin has extensive laboratory research experience and broad-based training in Biochemistry, Molecular and Cell Biology, Immunology, and Lung Physiology and holds a Doctorate in Microbiology from the University of Alabama at Birmingham and a Bachelor's degree in Biology and Chemistry from Providence College in Rhode Island.

Professional Engagements

- **Toxicology Consulting**
  - Project Management – Critical corroboration of medical facts documented in exposure cases against known health endpoints published in the scientific literature to substantiate allegations, determine alternative causation, and communicate conclusions to client. The following subject areas have been investigated for human health risk assessment:

EXPOSURE	HEALTH ENDPOINTS
Asbestos	Lung Cancer, Mesothelioma
Benzene	Leukemia, Lung Cancer
Chemical	Relevant physiological injuries from documented chemical exposures
Drug, Alcohol	Relevant physiological symptoms from documented drug exposures
Food, Water	Relevant physiological injuries due to infection from Salmonella, Legionella, Campylobacter, Vibrio, Microsporidia, Scombroid Toxin
Mold	Lung infection and injury
COVID-19	Lung infection and injury
Tobacco	Risk assessment for lung disease

  - Laboratory Testing – Provide case support for the testing of samples, critically analyze laboratory results to support or refute allegations of contamination or exposure, and communicate conclusions to client.

- **Research Into Human Health and Disease**
  - Lung and Immune Responses from Mold Exposure
    - Delineated the expression patterns and innate immune responses of G-protein-coupled receptors in the lung under normal and inflammatory conditions and provided novel insights into the development of airway inflammation and regulation of biomarkers relevant to obstructive pulmonary disease such as Asthma and Chronic Obstructive Pulmonary Disease (COPD).
    - Delineated the cellular and biochemical signaling pathways that drive respiratory inflammation via airway epithelial and innate immune responses to allergens. Established a vital role for lung epithelium in the translating of airborne insults into inflammatory responses which culminate in allergic airway obstruction and disease.
    - Discovered that anaphylatoxin receptors regulate airway epithelial expression of hematopoietic factors and control leukocyte differentiation in the lung. Established novel insights into the contribution of G-protein-coupled receptors and innate immunity to pulmonary homeostasis and host defense during mold exposure and Aspergillus infection.
  - Lung and Immune Responses from Microbial Exposure - Investigated the innate immune responses in the lung during Pseudomonas aeruginosa infection.
  - Cardiovascular System and Immune Responses in Disease - Investigated the contribution of innate immunity to cardiovascular disease under conditions of hyperlipidemia.
  - Liver and Immune Responses from Microbial Exposure - Investigated role of plasma proteins produced by the liver during endotoxemia and provided novel insights into the mechanisms of sepsis and homeostasis.
  - Skin and Immune Responses from Microbial Exposure - Investigated the innate immune responses in the skin during Staphylococcus aureus infection.
  - Central Nervous System and Immune Responses in Disease - Investigated the regulation of macrophages by innate immune responses to ascertain the pathological responses underlying Multiple Sclerosis.

- **Research Design and Laboratory Skills**
  - Designed, executed, and analyzed pathological responses associated with models of pulmonary disease (Asthma, COPD, IPF, and lung injury due to infection or chemical exposure) utilizing physiological and toxicological skills and methodologies to assess causation from chemical or biologic exposures and support or refute health endpoints associated with pulmonary inflammation and the immune response.
  - Designed, executed, and analyzed pathological responses associated with models of human disease (Atherosclerosis, Hyperlipidemia, Multiple Sclerosis, Septicemia, infectious skin disease, and injury due to infection or chemical exposure) utilizing physiological and toxicological skills and methodologies to assess causation from chemical or biologic exposures and support or refute health endpoints associated with inflammation and the immune response.
  - Designed, executed, and analyzed biological responses associated with cell types of the lung, liver, skin, and immune system for the purpose of assessing the pharmacological and toxicological properties of chemicals or biologics and their impact on normal cellular function and contribution to inflammatory disease endpoints.
  - Developed the necessary research procedures and reagents to study physiological and toxicological effects in models of human disease.

- **Laboratory Management**
  - Principal Investigator and Leader of a Research Laboratory - Managed research projects, laboratory resources, delegated responsibilities to staff, designed and executed all experimental research studies within the program, evaluated and analyzed results, and communicated findings at the conclusion of the study.

- **Research Project Management**
  - Data Analysis – Organized laboratory findings and critically analyzed against pertinent scientific literature in order to assess causation from chemical or biologic exposures, support or refute study endpoints, and guide subsequent study design and research program objectives.
  - Communication and Funding – Developed, composed, and submitted multiple research manuscripts and grant applications in order to communicate study conclusions and fund research projects focusing on immunological and inflammatory mechanisms underlying human disease.
  - Networking and Collaboration - Conducted multiple seminars and presentations of scientific projects to peers within academic institutions as well as national and international conferences for the purpose of marketing research program to facilitate collaboration.

- **Peer Review**
  - Research Grants - Reviewed grant submissions for multiple agencies (James and Esther King Florida Biomedical Research Program, Kansas City Area Life Sciences Institute, Ministry of Health Singapore, the Welcome Trust-DBT India alliance, and the National Institute of Health – Hypersensitivity, Autoimmunity, & Immune-mediated Study Section) in order to fund meritorious basic, translational, and clinical research proposals studying immunology and human disease.
  - Research Publications - Reviewed and critiqued research manuscripts for multiple scientific journals focusing on immunology, pulmonary, and infectious disease to determine if the study design, impact, relevance, and clarity of the research merited publication.

- **Mentorship**
  - Mentor for the Graduate School of Biomedical Sciences Program in Immunology - Managed and exposed trainees to laboratory methodologies, experimental design and data analysis, project design as well as

written and oral communication skills.

- Advisor for the Graduate School of Biomedical Sciences - Evaluated trainees capability to design and acquire, troubleshoot, and critically analyze data from their laboratory activities as well as organize their findings into a comprehensive and novel research program.
- Teacher for the Immunology Class for the Graduate School of Biomedical Sciences - Taught all aspects of Immunology to pre-doctoral students ranging from innate and adaptive immunity to systems biology.

Professional Experience

- **Rimkus** **2014 – Present**
  - Principal Consultant

    Provide toxicological support in cases involving exposure to a variety of chemical substances. Specialize in the areas of toxicology, immunology, and respiratory physiology in order to support expert testimony to pre-trial cases. Responsibilities include evaluating medical facts of each case, determining the validity of the claim based on scientific literature, and communicating conclusions to the client.

- **Toxicology Support Services** **2013 – 2018**
  - Freelance Consultant

    Identified and reviewed scientific literature in the areas of toxicology, immunology, and respiratory physiology in order to provide expert testimony to pre-trial cases. Duties include evaluating medical facts of each case, determining the validity of the claim based on scientific literature, and communicating conclusions to the practicing attorney.

- **University of Texas Health Science Center** **2002 – 2013**
  - Assistant Professor – Molecular Medicine (2002-2013)

    Managed multiple research projects investigating the role of the immune response in human health and disease. Responsible for leading, training personnel, and maintaining a scientific research laboratory.

    Developed the cellular models necessary for investigating the cellular and biochemical signaling pathways that drive respiratory inflammation via airway epithelial and immune responses to allergens and understanding the role of the immune response in pulmonary homeostasis and host defense during infectious fungal disease.

    Developed and acquired external funding (R01 Research Grant, National Institute of Health-NHLBI) and research publications in order to fund and communicate research studies focusing on immunological and inflammatory mechanisms underlying human disease.

    Taught Immunology classes and mentored students within the graduate school of biomedical sciences and participated in scientific review of Immunology grants and manuscripts for funding organizations and scientific journals.

  - Post-Doctoral Fellow and Instructor (1997-2002)

    Managed research projects investigating the role of the immune response in human health and disease.

    Developed the molecular tools and laboratory models necessary to investigate the immune responses that are critical for the initiation of airway inflammation and culmination in obstructive pulmonary disease, such as Asthma and Chronic Obstructive Pulmonary Disease (COPD).

    Developed and acquired external funding (Individual National Research Service Award and Research Scholar Development Award, National Institute of Health-NIAID; Beginning Grant-in-Aid, American Heart

Association – Texas Affiliate) and research publications in order to fund and communicate research studies focusing on immunological and inflammatory mechanisms underlying human disease.

- **University of Alabama at Birmingham** **1991 – 1997**
  - National Institute of Health-NIAID Pre-Doctoral Trainee
    Doctoral studies investigating the cellular and immunological mechanisms that contribute to the pathologies associated with Multiple Sclerosis and neuro-inflammatory diseases. Specifically, research studies employed toxicological approaches to ascertain the cytokine and signaling pathways that regulated macrophage biology in health and disease.

- **Providence College** **1988 – 1991**
  - Teaching and Laboratory Assistant
    Provided teaching services for the department of mathematics (Calculus, Statistics) and chemistry (Introductory, Organic, and Physical Chemistry) and laboratory services for the department of chemistry (Introductory and Organic Chemistry).

Education and Certifications

- **Microbiology, Ph.D.:** University of Alabama at Birmingham (1997)
- **Biology & Chemistry, B.S.:** Providence College (1991)
- **Memberships:** Society of Toxicology, Full Member; American Thoracic Society, Full Member; American Association of Immunology, Full Member; American Association for the Advancement of Science, Full Member

Publications

- Drouin, SM. **"Serving Up Some Safety to Fight COVID-19."** National Retail & Restaurant Defense Association, September 2020
- Drouin, SM. **"Silicosis: Occupational Exposure to Silica from the Manufacture and Installation of Quartz Countertops."** Industrial Safety & Hygiene News, November 2020
- Yuan X, Shan M, You R, Frazier MV, Jeongsoo-Hong M, Wetsel RA, Drouin SM, Seryshev A, Song L, Cornwell L, Rossen RD, Corry DB, and Kheradmand F. **"Activation of C3a receptor is required in cigarette smoke-mediated emphysema."** Mucosal Immunol., 2015: 8: 874-885
- Roy MG, Livraghi-Butrico A, Fletcher AA, McElwee MM, Evans SE, Boerner RM, Alexander SN, Bellinghausen LK, Song AS, Petrova YM, Tuvim MJ, Adachi R, Romo I, Bordt AS, Bowden MG, Sisson JH, Woodruff PG, Thornton DJ, Rousseau K, De la Garza MM, Moghaddam SJ, Karmouty-Quintana H, Blackburn MR, Drouin SM, Davis CW, Terrell KA, Grubb BR, O'Neal WK, Flores SC, Cota-Gomez A, Lozupone CA, Donnelly JM, Watson AM, Hennessy CE, Keith RC, Yang IV, Barthel L, Henson PM, Janssen WJ, Schwartz DA, Boucher RC, Dickey BF, Evans CM. **"Muc5b Is Required for Airway Defence."** Nature, 2014: 505: 412-416
- Lim H, Kim YU, Yun K, Drouin SM, and Chung Y. **"Distinct Regulation of Th2 and Th17 Responses to Allergens by Pulmonary Antigen Presenting Cells In Vivo. Immunol."** Lett., 2013: 156: 140-148
- Lim H, Kim YU, Drouin SM, Mueller-Ortiz S, Yun K, Morschl E, Wetsel RA, and Chung Y, **"Negative regulation of pulmonary Th17 responses by C3a anaphylatoxin during allergic inflammation in mice."** PloS One., 2012: 7: e52666
- Kiss A, Montes M, Jaensen E, Drouin SM, Wetsel RA, Yao Z, Martin R, Kheradmand F, Corry DB. **"A Pathogen-Activated Cellular Homing Pathway that Instructs Allergic Inflammation."** J Allergy Clin Immunol., 2007: 120: 334-342

- Dillard P, Wetsel R, Drouin SM. **"The Complement Anaphylatoxin C3a Regulates Muc5ac Expression by Airway Epithelial Clara Cells Independently of TH2 Responses."** Am J Resp Crit Care Med., 2007: 175: 1250-1258
- Huber-Lang M, Vidya Sarma J, Zetoune FS, Rittirsch D, Neff TA, McGuire SR, Lambris JD, Warner RL, Flierl MA, Hoesel LM, Gebhard F, Younger JG, Drouin SM, Wetsel RA, Ward PA. **"Generation of C5a in the absence of C3: a new complement activation pathway."** Nat. Med., 2006: 12: 682-687
- Drouin SM, Sinha M, Sfyroera G, Lambris JD, Wetsel RA. **"A Protective Role for the Fifth Complement Component (C5) in Allergic Airway Disease."** Am. J. Resp. Crit. Care Med., 2006: 173: 852-857
- Mueller-Ortiz SL, Drouin SM, Wetsel RA. **"Presence of complement component C3 is critical for a protective immune response against Pseudomonas aeruginosa in a murine model of pneumonia infection."** Infect. Immun., 2004: 72: 2899-2906
- Matthews KW, Drouin SM, Liu C, Martin JF, Skidgel RA, Wetsel RA**. "Expression of the third complement component (C3) and carboxypeptidase N small subunit (CPN1) during mouse embryonic development. Dev. Comp."** Immunol., 2004: 28: 647-655
- Lawrenz MB, Wooten RM, Zachary JF, Drouin SM, Weis JJ, Wetsel RA, Norris SJ. **"Effect of Complement Component C3 Deficiency on Experimental Lyme Borreliosis in Mice."** Infect. Immun., 2003: 71:4432-40
- Drouin SM, Corry DB, Kildsgaard J, Hollman TJ, Wetsel RA. **"Absence of the Complement anaphylatoxin C3a receptor suppresses Th2 effector functions in a murine model of pulmonary allergy."** J. Immunol., 2002: 169: 5926-5933
- Drouin SM, Corry DB, Kildsgaard J, Wetsel RA., **"The Absence of C3 Demonstrates a Role for Complement in Th2 Effector Functions in a Murine Model of Pulmonary Allergy."** J. Immunol., 2001: 167: 4141-4145
- Drouin SM, Kildsgaard J, Haviland J, Zabner J, Jia HP, McCray PB, Tack BF, Wetsel RA. **"Expression of the Complement Anaphylatoxin C3a and C5a Receptors on Bronchial Epithelial and Smooth Muscle Cells in Models of Sepsis and Asthma."** J. Immunol. 2001: 166: 2025-2032
- Drouin SM, Kiley S, Carlino JA, Barnum SR. "**TGF-β regulates C3 gene expression in monocytes through a PKC-dependent pathway."** Mol. Immunol., 1998: 35: 1-11
- Drouin SM, Carlino JA, Barnum SR. **"Transforming growth factor-β2-mediated regulation of C3 gene expression in monocytes."** Mol. Immunol., 1997: 33: 1025-1034

Abstracts

- Morschl E, Bell AT, Porter P, Corry DB, and Drouin SM. **"Proteases from the Fungal Allergen Aspergillus Regulate Airway Epithelial Expression of Complement Component C3 and Its Activation Fragment C3a."** Mol Immunol., 2009: 46: 2826-2827
- Sinha M, Drouin SM, Woodruff T, Taylor S, and Wetsel RA. **"The Receptor for Complement Anaphylatoxin C5a Protects Against the Development of Airway Hyperresponsiveness in Allergic Asthma by Inhibiting Cysteinyl Leukotriene Pathway."** Mol Immunol., 2008: 45: 4109-4110
- Sinha M, Drouin SM, and Wetsel RA. "**The Receptor for Complement Anaphylatoxin C5a Protects Against the Development of Airway Hyperresponsiveness in Allergic Asthma by Inhibiting Cysteinyl Leukotriene Pathway."** FASEB J., 2008: 22: 574.2
- Dillard P, Sinha M, Wetsel RA, and Drouin SM. **"Complement C3a and its Receptor Regulate Muc5ac Expression by Airway Epithelial Clara Cells Independent of Th2 Responses."** 4th International Workshop on Complement Associated Diseases, Animal Models, and Therapeutics, Porto Heli, Greece, June 10-15, 2007

- Sinha M, Drouin SM, and Wetsel RA. **"Role of C5a and Its Receptor in Modulating Pathophysiological Features of Allergic Asthma."** 48th National Student Research Forum, Galveston, April 26-27, 2007
- Dillard P, Wetsel RA, and Drouin SM. **"The Complement Anaphylatoxin C3a Regulates Muc5ac Expression by Airway Epithelial Clara Cells Independently of TH2 Responses."** Mol Immunol., 2006: 44: 163
- Kiss A, Kheradmand F, Martin R, Zhengbin Yao, Drouin SM, Wetsel RA, Corry DB. **"A Novel Innate Signaling Pathway Underlying Allergic Lung Disease."** Clin. Invest. Med., 2004: 27: 118A
- Drouin SM, Karp P, Zabner I, Young H, Blackburn M, Wetsel RA, Dillard P. **"Regulation of Mucus Expression in Primary Mouse Airway Epithelial Cells by the Complement Anaphylatoxin C3a."** Mol. Immunol., 2004: 41: 226
- Drouin SM, Corry DB, Wetsel RA. **"Increased Inflammation and Airway Hyperresponsiveness in C5-deficient Mice Reveal Opposite Roles for C3a and C5a in Mediating Th2 Effector Functions in Experimental Asthma."** Mol. Immunol., 2004: 41: 225-226
- Mueller-Ortiz SL, Drouin SM, Wetsel RA. **"Presence of complement component C3 is critical for a protective immune response against Pseudomonas aeruginosa in a murine model of pneumonia infection."** Inter. Immunopharmacology., 2002: 2: 1341
- Drouin SM, Corry DB, Kildsgaard J, Hollman TJ, Wetsel RA. "**Absence of the complement anaphylatoxin C3a receptor and the alternative pathway component Factor B suppresses Th2 effector functions in a murine model of pulmonary allergy."** Inter. Immunopharma, 2002: 2: 1231
- Drouin SM, Corry DB, Kildsgaard J, Hollman TJ, Wetsel RA. **"Absence of the Complement Anaphylatoxin C3a Receptor Suppresses Th2 Effector Functions in a Murine Model of Asthma."** FASEB J. 2002: 16: A682
- Drouin SM, Corry DB, Kildsgaard J, Wetsel RA. **"A role for the third component of complement (C3) in a murine model of asthma."** Scand. J. Immunol., 2001: 54: 93
- Drouin SM, Kildsgaard J, Haviland J, Jia HP, McCray PB, Tack BF, Wetsel RA. **"Comparative expression of anaphylatoxin C3a and C5a receptors on lung bronchial epithelial and smooth muscle cells in mouse models of asthma and sepsis."** Immunopharmacology. 2000: 49: 26
- Drouin SM, Kildsgaard J, Beck P, Wetsel RA. **"Decreased eosinophilia and IgE levels during ovalbumin-induced asthma in C3-deficient mice."** Mol. Immunol., 1998: 35: 428
- Drouin SM, Carlino JA, Barnum SR. **"TGF-β2 regulates C3 expression in monocytes by a PKC-dependent pathway."** Mol. Immunol., 1996: 30: 414B
- Drouin SM, Fenster SD, Carlino JA Barnum SR. **"Transforming Growth Factor-β2-Mediated Regulation of C3 Gene Expression in Monocytes and Hepatocytes."** FASEB J., 1995: 9: 517A
- Barnum SR, Carlino JA, Drouin SM, **"TGF-β-mediated regulation of C3 gene expression in human monocytes."** FASEB J., 1994: 8: 282A

Presentations

- **"Knowing What's in your Food: A Toxicological Analysis of Food Ingredients and Contaminants."** Hospitality Legal Conference; October 6, 2021.
- **"Understanding the COVID-19 Pandemic."** Rimkus Consulting Group Continuing Education and Continuing Legal Education Certification Series; June 15, 2021.
- **"Defending a Mold Claim."** Perrin Conferences; April 21, 2021.
- **"Understanding SARS-CoV-2 to Fight COVID-19."** Puget Sound Adjusters Association; November 20, 2020.
- **"Serving Up Some Safety to Fight COVID-19."** Cleveland Metropolitan Bar Association; October 16, 2020.

- **"The Hazy Science of CBD."** Hospitality Legal Conference; June 30, 2020.
- **"Complement Activation & Expression in the Lung: Regulation of Airway Epithelium by Beta-glucans & Serine Proteases."** University of Texas Health Science Center at Houston, Department of Pathology and Laboratory Medicine, Houston, TX; April 16, 2010.
- **"Proteases from the Fungal Allergen Aspergillus Regulate Airway Epithelial Expression of Complement Component C3 and Its Activation Fragment C3a."** 12th European Meeting on Complement in Human Disease, Visegrád, Hungary; Sept. 6, 2009.
- **"The Importance of Airway Epithelium and the Complement System to Obstructive Pulmonary Disease."** Institute of Molecular Medicine Scientific Advisory Board Symposium. University of Texas Health Science Center at Houston, Brown Foundation Institute of Molecular Medicine for the Prevention of Human Diseases, Houston, TX; April 1, 2009.
- **"From Barrier Function to Innate Immunity – The Importance of Airway Epithelium to Obstructive Pulmonary Disease."** 2008 Annual Medical School Research Retreat & The Hans Muller-Eberhard Memorial Lecture. University of Texas Health Science Center at Houston, Brown Foundation Institute of Molecular Medicine for the Prevention of Human Diseases, Houston, TX; Dec. 5, 2008.
- **"Investigating the Mechanisms of Complement-Mediated Airway Inflammation and Obstruction in Rodent Models of Allergic Airway Disease."** University of Texas Health Science Center at Houston, Brown Foundation Institute of Molecular Medicine for the Prevention of Human Diseases, Houston, TX; Jan. 18, 2008.
- **"Investigating the Mechanisms of Complement-Mediated Airway Inflammation and Obstruction in Rodent Models of Allergic Airway Disease."** Center for Translational Research in Pulmonary and Critical Care Medicine, Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, Philadelphia, PA; Dec. 10, 2007.
- **"Investigating the Mechanisms of Complement-Mediated Airway Inflammation and Obstruction in Rodent Models of Allergic Airway Disease."** Duke Asthma, Allergy, and Airway Center, Duke University Medical Center, Durham, NC; Dec. 7, 2007.
- **"Investigating the Mechanisms of Complement-Mediated Airway Inflammation and Obstruction in Rodent Models of Allergic Airway Disease."** Host: Dr. James Johnson. Institution: Department of Medicine, Division of Pulmonary, Allergy, and Critical Care Medicine, University of Alabama at Birmingham, Birmingham, AL; Dec. 4, 2007.
- **"Complement C3a and its Receptor Regulate Muc5ac Expression by Airway Epithelial Clara Cells Independent of Th2 Responses."** 4th International Workshop on Complement Associated Diseases, Animal Models, and Therapeutics, Porto Heli, Greece; June 11, 2007.
- **"Investigating the Mechanisms of Complement-Mediated Airway Inflammation and Obstruction in Rodent Models of Allergic Airway Disease."** University of Texas Health Science Center at Houston, Department of Pathology and Laboratory Medicine, Houston, TX; April 14, 2006.
- **"Investigating the Mechanisms of Complement-Mediated Airway Inflammation in Rodent Models of Pulmonary Allergy."** Baylor College of Medicine, Pulmonary & Critical Care Medicine Section, Houston, TX; Feb. 25, 2004.
- **"Complement Regulation of Th2 Effector Functions in a Rodent Model of Pulmonary Allergy."** University of Iowa College of Medicine, Department of Internal Medicine, Iowa City, IA; Dec. 6, 2002.
- **"Complement Regulation of Th2 Effector Functions in Lung Allergy."** University of Texas Health Science Center at Houston, Brown Foundation Institute of Molecular Medicine for the Prevention of Human Diseases, Houston, TX; March 15, 2002.
- **"Complement Regulation of Th2 Functions In Lung Allergy."** Baylor College of Medicine, Pulmonary & Critical Care Medicine Section, Houston, TX; Feb. 27, 2002.

- **“Comparative Expression of Anaphylatoxin C3a and C5a Receptors on Lung Bronchial Epithelial and Smooth Muscle Cells in Mouse Models of Asthma and Sepsis.”** Baylor College of Medicine, Pulmonary & Critical Care Medicine Section, Houston, TX; Dec. 20, 2000.
- **“Expression of Complement Anaphylatoxin Receptors in Mouse Models of Asthma and Sepsis.”** University of Texas Health Science Center at Houston, Brown Foundation Institute of Molecular Medicine for the Prevention of Human Diseases, Houston, TX; Feb. 25, 2000.
- **“Comparative Expression of Anaphylatoxin C3a and C5a Receptors on Lung Bronchial Epithelial and Smooth Muscle Cells in Mouse Models of Asthma and Sepsis.”** University of Texas Health Science Center at Houston, Brown Foundation Institute of Molecular Medicine for the Prevention of Human Diseases, Houston, TX; January 23, 1998.
- **“Transforming Growth Factor-beta Regulates C3 Expression In Monocytes Through A Protein Kinase C-Dependent Pathway.”** University of Alabama at Birmingham, Department of Microbiology, Birmingham, AL; May 6, 1997.
- **“Transforming Growth Factor-beta Regulates C3 Expression In Monocytes Through A Protein Kinase C-Dependent Pathway.”** University of Texas Health Science Center at Houston, Brown Foundation Institute of Molecular Medicine for the Prevention of Human Diseases, Houston, TX; Dec. 6, 1996.
- **“Transforming Growth Factor-beta Regulates C3 Expression In Monocytes Through A Protein Kinase C-Dependent Pathway.”** Beth Israel Deaconess Medical Center, Infectious Diseases Division, Boston, MA; Nov. 26, 1996.
- **“Properties of Polyphenols in Wine.”** Providence College, Department of Chemistry, Providence, RI; Oct. 1990.
- **“tPA: Role of Tissue Plasminogen Activator in the Clotting Cascade.”** Providence College, Department of Chemistry, Providence, RI; Feb. 1990.