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Rheumatology | Clinical Allergy | Immunology | Internal Medicine | Translational Medicine
LEADING SUBJECT MATTER EXPERT

Advising Private Investors, Public Companies, Academic Institutions and Think Tanks Worldwide

Medical Leader, Clinical Investigator and Academic Subject Matter Expert with the ability to understand and influence basic and translational research toward the goal of providing a therapeutic or diagnostic reagent that can have a substantial positive impact on a human disease. Prolific history comprised of 75+ consulting projects advising Fortune 500 pharmaceutical and biotechnology firms, specialty start-up companies, academic institutions and world-renown medical associations. Demonstrated abilities to perform thorough due diligence on pre-clinical product development, production logistics and outcomes. Research on human mast cells and basophils is funded primarily by NIH and has been included in 250+ publications.

Areas of Expertise and Interest

Clinical Allergy/Immunology: asthma, rhinitis, sinusitis, anaphylaxis, urticaria/angioedema, eosinophilic syndromes, mastocytosis and primary immunodeficiency

Research: mast cells, basophils, anaphylaxis, asthma, urticaria, desensitization, tryptase and mast cell proteases

National Institute of Health Merit Award Recipient 1990 - 2001

ACADEMIC APPOINTMENT HISTORY

NORTH CAROLINA UNIVERSITY (NCU), Charlotte, VA **1983 – present**

Chair, Division of Rheumatology, Allergy & Immunology (2001 – present)

- Maintain this ambulatory care division with 6 rheumatologists, 2 allergists and 3 immunologists that accommodate approximately 8,000 patient visits in Rheumatology and 1,000 visits in Allergy and Immunology in the faculty practice offices annually
- Manage the active in-hospital consultative practices at the Brock clinic, which receives 1,500 visits annually, and the Veterans Affairs Medical Center, which receives about 2,200 patients
- Institute operational changes to eliminate an annual \$400,000 loss to profitability within first two years
- Generate a \$200,000 in yearly profits as a result of establishing a CLIA-certified immunology laboratory
- Hold inventions that are leading income producers for the NCU Office of Technology Transfer

Carol and Evan McGuire Professor of Medicine (1991 – present)

- Receive and maintain this endowed position for outstanding research accomplishments

Professor of Internal Medicine, Microbiology, Immunology & Pathology (1989 – present)

- Manage a laboratory staff of 12 consisting of faculty, post-doctoral students, students and technicians
- Characterize the unique interactions between heparin and tryptase
- Identify the tetrameric quaternary structure of tryptase and features for its regulation
- Clone human tryptase and recognize alpha and beta variants
- Make recombinant protryptases and identified mechanisms for processing of protryptases
- Develop commercial immunoassays for measuring serum tryptase levels
- Identify FcγRIIIa on tissue-derived human mast cells
- Identify adenosine-enhanced degranulation occurs via the A2b receptor on MC_T cells
- Develop an in vitro model of human mast cell desensitization
- Demonstrate that tryptase can destroy fibrinogen and activate prostromelysin, C3 and C5

Associate Professor of Internal Medicine, Microbiology, Immunology & Pathology (1983 - 1989)**Section Chief, Allergy and Clinical Immunology** - Obtained tenure in 1986

- Discovered two types of human mast cells, MC_T and MC_{TC} cells
- Developed techniques to develop human mast cells from progenitors in culture
- Developed an immunoassay for tryptase with potential utility as a biomarker for systemic anaphylaxis and systemic mastocytosis

ROCKEFELLER MEDICAL SCHOOL, New York, NY**Assistant Professor in Medicine (Tenure Track)**

1980 - 1983

- Discovered and purified human tryptase
- Described the protease:proteoglycan composition of mast cell secretory granules

Instructor in Medicine

1979 - 1980

- Developed β -hexosaminidase as a biomarker for mast cell degranulation in vitro

EMPLOYMENT HISTORY**NORTH CAROLINA UNIVERSITY HEALTH SYSTEM, Charlotte, NC****Director, Asthma & Allergic Diseases Cooperative Research Center**

2008 - Present

- Organize four projects and three cores to successfully compete for 1 of 16 AACRC five-year awards

Allergy/Immunology Program Director

1983 - Present

- Maintain ACGME accreditation since 1983
- Achieve a 100% ABAI certification exam pass rate among fellows

Director of Adult Allergy- Immunology Clinics

1983 - Present

- Direct 2 nurses and 4 technicians for this practice that receives 1100 patients per year
- Establish protocols for allergy testing, immunotherapy, drug desensitization, nasal cytology and spirometry

Physician

1983 - Present

- Listed among Best Doctors in North Carolina and in America in Allergy/Immunology on many occasions

STEWART B. BRINTON HOSPITAL, New York, NY

1979 - 1983

Research Associate, Evelyn Brinton Hospital Division**Assistant Physician, Stewart B. Brinton Hospital Division****CERTIFICATION & LICENSURE****Licensure:**

North Carolina No. 35608

1983 - present

New York No. 43699

1979 - 1983 (not renewed)

Illinois No. R7885

1977 - 1979 (not renewed)

Certification:

American Board of Diagnostic Laboratory Immunology

1987 - indefinite

American Board of Allergy and Immunology

1981 - indefinite

American Board of Rheumatology

1980 - indefinite

American Board of Internal Medicine, No. 34066

1979 - indefinite

Hospital Appointments:

North Carolina University Health System

1983 - present

EDUCATION**POSTDOCTORAL TRAINING:**

Rockefeller Medical School, New York, NY, <i>Research Fellow in Rheumatology</i>	1978 – 1979
Stewart B. Brinton Hospital, New York, NY, <i>Research Fellow in Allergy and Immunology</i>	1979
Cartwright Hospital, Evanston, IL, <i>Resident, Internal Medicine</i>	1977 – 1978
Cartwright Hospital, Evanston, IL, <i>Intern, Internal Medicine</i>	1976 – 1977

EDUCATION & DOCTORAL TRAINING:

Jefferson University, Chicago, IL, <i>Ph.D. (Biochemistry)</i>	1976
<ul style="list-style-type: none"> Purification and Characterization of Eukaryotic DNA-Dependent RNA Polymerases; Thesis Advisor: John Rider, PhD 	
Jefferson University, Chicago, IL, <i>Medical Doctor M.D.</i>	1976
Jefferson University, Chicago, IL	1970 – 1976
<ul style="list-style-type: none"> <i>National Institutes of Health Medical Scientist Training Program</i> 	
University of Illinois, Urbana, IL, <i>B.S., (summa cum laude)</i>	1970

SPECIAL AWARDS AND HONORS**Awards:**

ISI Highly Cited Researcher	2002 – present
AAAAI Barry Mentovich Memorial Lectureship	2011
NCU Jonathan Martin Innovation Award	2008
Best Doctors in America	2001, 2002, 2005, 2006
NIH MERIT award	1990 – 2001
Triennial Award for Sustained Research Excellence, Internal Medicine, NCU	1998
AAAAI Travel Grants	1979, 1980 & 1982
Medical Fund Society Prize in Medicine	1976
Conference Medal, University of Illinois	1970

Honorary Societies:

Association of American Physicians (AAP)	1991
American Society for Clinical Investigation (ASCI)	1987

Fellowships:

Rockefeller Medical School, New York, NY	1981 – 1982
<ul style="list-style-type: none"> Nelson D. Rockefeller Research Fellowship and Benjamin Sleetman Foundation Fellowship of the Asthma and Allergy Foundation of American 	
Rockefeller Medical School, New York, NY	1977 – 1981
<ul style="list-style-type: none"> Arthritis Foundation Postdoctoral Fellowship 	

ADDITIONAL ADDENDUMS AVAILABLE

- Subject Matter Expert Consulting Projects
- Scientific Publications and Authorships
- Scientific and Professional Society Membership and Committee Work