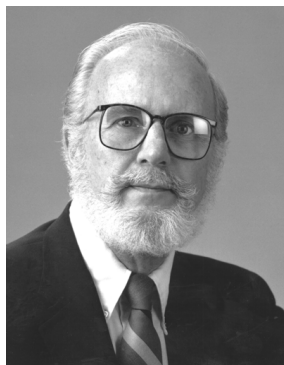


The Elliott Middleton Memorial Lectureship



Elliott Middleton's interest in research began early in his career, when as a medical student at Columbia he was awarded a Medical Research Fund Student Fellowship. His research during this period led to a publication with an eminent member of the Columbia faculty, Dr Beatrice Seegal.

After his internal medicine residency at the Presbyterian Hospital in New York, Middleton worked in the laboratory of the renowned immunochemist, Dr Michael Heidelberger. Here Middleton developed the laboratory skills and knowledge that would enable him to conduct the research that was to occupy him for the remainder of his academic career. He subsequently spent 2 years at the National Institutes of Health, followed by 2 years at the Roosevelt Hospital in New York.

Over the next decade, during which he was in part-time private practice, he was actively involved in allergy research at Columbia and Roosevelt. His investigative efforts during this period focused on the various biochemical factors that governed the *in vitro* release of histamine from animal and human peripheral blood leukocytes. This research resulted in the publication of 30 articles in major scientific journals.

In 1969 Middleton moved to Denver to become the Director of Clinical Services and Research at the Children's Asthma Research Institute and Hospital (CARIH). During the eight years he spent in Denver he studied adrenergic-cholinergic "imbalance" in allergic reactions and asthma, α -adrenergic effects on leukocyte function in asthmatic individuals, and the biochemical basis for the modulation of allergic reactions by drugs.

During this time he served as the President of the American Academy of Allergy, Asthma and Immunology. In 1976, he moved to the State University of New York at Buffalo, where he was appointed Professor of Medicine and Director of the Allergy Division, succeeding Dr Carl Arbesman. During the two decades that he worked in Buffalo, Middleton developed an interest in the effects of ubiquitous family of plant compounds known as flavonoids. The latter are responsible for the yellow, orange, and red pigments found in many foods, flowers, tea and wine. In a series of 30 publications beginning in 1982, he elucidated the role of various plant flavonoids on mammalian cell systems.

His research revealed flavonoid effects on enzyme activities and in particular their role as modulators of various functions of immune and inflammatory cells. As a result of his work, he became an internationally recognized expert on flavonoids, which are currently receiving attention for their antioxidant, antiviral, antitoxic, antineoplastic, and other potentially important properties. An exhaustive review of the flavonoids, with more than 1000 references, was submitted for publication shortly before his death and published in the *Pharmaceutical Review* in December 2000.

Most practicing allergists will recognize Elliott Middleton for his editorial talents as editor of the *Journal of Allergy and Clinical Immunology* from 1983 to 1988 and as the senior editor of the first four editions of the two-volume textbook *Allergy: Principles and Practice*. In addition to his research and editorial accomplishments, Middleton was a fine clinician and outstanding teacher, as the 75+ fellows he mentored during his career will attest.

2012 marks the eleventh year of the Elliott Middleton Memorial Lectureship. **It will be presented in Symposium Session 3302: Demystifying Aspirin-Exacerbated Respiratory Disease on Sunday, March 4th, 2012 from 10:45 am - 12:00 noon.**

The Elliott Middleton Memorial Lecturer - Joshua A. Boyce, MD FAAAAI



Joshua A. Boyce, M.D., received his Bachelor's degree from Skidmore College and his M.D. from the University of Massachusetts. He completed his residency in Pediatrics at the University of Massachusetts, where he also served as Chief Resident.

He completed his fellowship in Pediatric Pulmonology at Massachusetts General Hospital, and his training in Allergy and Immunology at the Brigham and Womens Hospital. He currently is the Albert L. Sheffer Professor of Medicine in the Field of Allergic Diseases at Harvard Medical School, and is the Director of the Inflammation and Allergic Disease Research Section at the Division of Rheumatology, Immunology and Allergy at the Brigham and Womens Hospital.

He is also Director of the Jeff and Penny Vinik Center for Allergic Disease Research. Dr. Boyce's research interests focus on lipid mediators of inflammation, particularly their role in controlling mast cell homeostasis and airway inflammation. His studies have been continuously funded by the National Institutes of Health since 1995. He is presently the Program Director of an Asthma and Allergic Disease Center Grant awarded to the Brigham and Womens Hospital, and is a standing member of the Allergy, Immunology and Transplantation Review Committee (AITRC) at NIAID.

Dr. Boyce served as Section Editor for the *Journal of Immunology* from 2001 until 2004, and is presently an Associate Editor for the *Journal of Allergy and Clinical Immunology*. He serves on the Board of Directors of the American Board of Allergy and Immunology. He was the Chairman of the Expert Panel that developed the NIAID-sponsored guidelines for the Diagnosis and Management of Food Allergy. He has mentored multiple physicians and Ph.D.s who have gone on to careers in academia and industry, and has twice been awarded "Teacher of the Year" by the house staff for his work on the general pediatrics service.

Dr. Boyce resides in Sherborn, Massachusetts, with his wife of 25 years. He is an avid fan of professional sports and music history.