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| Stephen B Liggett | |  | | --- | | Stephen B Liggett M.D. | | **Academic Title:** Professor | | **Primary Appointment:** Medicine | | **Secondary Appointments:** Physiology | | [**sligg001@umaryland.edu**](mailto:sligg001@umaryland.edu%20) | | **Location:** HSF2, Room S114 | | **Phone:** (410) 706-6256 | | **Fax:** (410) 706-6262 | | **Lab:** (410) 706-6255 | |

Personal History

Dr. Liggett obtained a B.S. in Physics from the Georgia Institute of Technology and an M.D. from the University of Miami School of Medicine. He served an Internship, Residency (Internal Medicine) and Fellowship (Pulmonary, Critical Care Medicine) at Washington University School of Medicine/Barnes Hospital in St. Louis. These were followed by a four year, laboratory-based post-doctoral fellowship at the Howard Hughes Medical Institute at Duke University in the laboratory of Robert Lefkowitz. He subsequently became an Assistant Professor of Medicine and Pharmacology at Duke University, and then Professor of Medicine, Pharmacology and Molecular Genetics at the University of Cincinnati College of Medicine, where he was also Director of Pulmonary and Critical Care Medicine. After 13 years as Division Director, he became the Taylor Endowed Professor of Medicine and Director of the Cardiopulmonary Research Center at UC, where he concentrated on his basic and translational research programs. In 2005 he moved to the University of Maryland School of Medicine, where he is Professor of Medicine and Physiology and Director of the Cardiopulmonary Genomics Program.

Research Interests

The laboratory has 5 major interrelated sections: 1) the study of the molecular basis of G-protein coupled receptor structure and function, 2) delineation and characterization of human genetic variants within this receptor signaling network, 3) association studies of genetic variants with heart and lung disease and their response to treatment to develop a platform for genetically-based personalized medicine, 4) creation of genetically modified mice to define the mechanisms of heart and lung disease and "humanized mice" to explore the effects of genetic variation of human genes, and 5) determination of the full genome sequences of human Rhinoviruses using high throughput next-generation sequencing technologies; analysis of the relationships between viral genomes and asthma phenotypes. These studies have led to new paradigms in our understanding of how this superfamily of receptors (the largest in the human genome) carry out signaling, how they participate in the pathophysiology of congestive heart failure and asthma, and how a patient's genetic makeup can be used to tailor drug treatment.

Publications

**Selected Publications**   
  
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Links of Interest

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