Translation research is a fundamental element for the progression of innovative medical advances. With the support of the PhRMA Foundation, I have had the opportunity to use an integrated research approach that bridges the translational interface between clinical and basic science for the identification of novel biomarkers for prevention and interventions.

Kasi McPherson, PhD
University of Alabama, Birmingham School of Medicine
The PhRMA Foundation funds scientists at critical points in their research careers to support and reward innovation in areas essential to the development of safe and effective medicines.

For over 55 years, the PhRMA Foundation has helped thousands of scientists advance their careers and has inspired new generations to enter biopharmaceutical research. The early-career support provided by the PhRMA Foundation has been a catalyst for our scientists to become leaders in their organizations and fields. Our programs help build a larger pool of highly-trained researchers to meet the growing needs of academic institutions, the government and the research-intensive pharmaceutical industry.

PhRMA Foundation award recipients will continue to play an instrumental role in substantial achievements in medicine for the benefit of public health and ultimately the patient.

> Area of Interest

Translational medicine is a discipline focused on bridging discoveries in experimental and computational research to their application in clinical practice. To be successful, this requires working with clinicians to first identify critical unmet clinical needs. Examples of research areas include molecular and cellular biology, pathophysiology, systems biology, bioinformatics, modeling and simulation, and other quantitative sciences that connect basic biological concepts to unmet medical needs. Clinical observation should serve as the basis for hypothesis generation to further basic research and to efficiently advance the product of such research to patients.

The goal of the PhRMA Foundation’s Translational Medicine Program is to promote the development of an integrative approach towards clinical needs in diagnosis, treatment and prevention using both experimental and computational methods. The Foundation believes that to this goal, it is critical that researchers collaborate with clinicians to identify critical unmet clinical needs. This can lead to an enhanced understanding of human biological and disease processes but requires a strong translational component that is bi-directional, i.e. starting from bedside to bench. This program will support such approaches to Translational Medicine.

Translational Medicine awards will advance training and support career development of scientists engaged in research that significantly addresses specific clinician-defined problems and integrates innovative technologies with advanced biological, chemical, and pharmacological sciences and engineering methodologies in areas including:

- Genetics (Molecular, Pharmaco-, Population, Medical)
- Genomics (Function, Structural, Toxico-, Pharmaco-, Comparative)
- Systems (Biology and Pharmacology)
- Pathways and Networks
- Integrative Biology
- Modeling and Simulation
- Target Identification and Validation
- Biomarker Discovery and Validation
- Vaccine Development
- Molecular Epidemiology
- Imaging
- Disease Modeling

For "program priorities" please visit the website. www.phrmafoundation.org/awards/

> 2020 Awards in Translational Medicine

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