

JOHN TAYLOR BABBITT FOUNDATION

RESEARCH UPDATE 2020

The Foundation is funding research directed by Dr. Victoria Parikh, a cardiologist and researcher at Stanford specializing in the care of patients with inherited cardiovascular diseases. Dr. Parikh's studies multiple causes of cardiomyopathy using patient cohort genetics, high throughput molecular biology and human induced pluripotent stem cell derived cardiomyocytes. Research highlights this year include:

- Dr. Parikh is a co-author of American Heart Association's (AHA) scientific statement on genetic testing for inherited cardiovascular disease. Published in July 2020 and publicly available (<https://www.ahajournals.org/doi/10.1161/HCG.0000000000000067>), it provides best practice guidelines for practitioners on incorporating genetic testing results into the care of patients and their families to manage inherited cardiovascular diseases. JTB Foundation support is cited in Dr. Parikh's disclosure.
- A joint study with Johns Hopkins and Geisinger Health on genetic causes of arrhythmogenic right ventricular cardiomyopathy has identified certain overrepresentation in the molecular biology of the diseased population. This new work was submitted for presentation at the AHA and acknowledges JTB support.
- Dr. Parikh co-authored a review article on the use of Apelin for cardiac hypertrophy. Apelin is a naturally occurring peptide, or building block for protein. The article, which cites Foundation support, addresses the possibilities of targeting Apelin pathways to develop novel therapies for heart failure.
- In response to COVID-19, the work in Dr. Parikh's lab on high-throughput molecular biology was applied to high-throughput virus genome sequencing from nasal swabs as part of a broad collaboration among 12 clinical and academic laboratories. For more information see: <https://www.medrxiv.org/content/10.1101/2020.07.27.20163147v3>