

Steven Marx has made seminal contributions to the cardiovascular field. Dr. Marx is a faculty member at Columbia University, where he is the Florence and Herbert Irving Professor of Medicine, and Professor of Pharmacology and Physiology. Dr. Marx directs the Cardiovascular Fellowship Program, and he is multi-PI of a NHLBI T32 to train physician-scientists at Columbia. His research studies have: (1) Established the scientific basis for the development of the FDA-approved rapamycin-eluting coronary stents. (2) Identified dysfunctional ryanodine receptor activity as a molecular basis for arrhythmias and heart failure. (3) Identified the molecular basis for adrenergic modulation of the human cardiac action potential duration through regulation of the slowly activating delayed rectifier. (4) Elucidated the mechanisms underlying regulation of the cardiac calcium channel through phosphorylation of Rad, an inhibitor of calcium channels. The findings will have significant impact in treating arrhythmias and heart failure.