The objective of the Cardiovascular Pathophysiology Core (CPC) is to provide investigators at Vanderbilt and outside institutions a cost-effective means to accurately assess cardiovascular phenotypes in mouse models of diabetes and metabolic disease. The CPC uses validated approaches and state-of-the-art instrumentation that allow for sensitive screening of phenotypic variations. For many studies, multiple measurements can be coordinated with the other Cores of the MMPC: for example, non-invasive serial echocardiographic and blood pressure determinations during a period of high-fat feeding or other environmental stress, measuring the metabolic response to exercise on a subset of mice, and histologic evaluation on sacrifice. The CPC also offers several surgical techniques to induce myocardial injury (infarction, aortic banding, and ischemia/reperfusion injury).

Contact information:
Richard Gumina, Ph.D., Director
2220 Pierce Avenue, PRB 383
Vanderbilt University Medical Center Nashville, TN 37232
Email: richard.gumina@vanderbilt.edu
Cardio Lab: Preston Research Building, Room 383

Staff:
Lin Zhong, Ph.D.

Services
Cost for Investigator-initiated research
Cost for Industry-initiated research