

# Cardiovascular Pathophysiology Core (with Cardiovascular Medicine)

MMPC - Cardiovascular Pathophysiology Core

**Keywords:** [cardio complications](#) [cardiovascular disease](#) [cardio](#) [Core](#) [disease](#) [blood pressure](#) [complications](#) [phenotypes](#)  
[echo](#) [telemetry](#) [injury](#) [myocardial](#)

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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).

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