

**Daniel P. Kelly, M.D.**

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Daniel Kelly, a cardiologist-scientist, is the Willard and Rhoda Ware Professor of Medicine and Director of the Cardiovascular Institutes at the University of Pennsylvania and Children's Hospital of Philadelphia. His research interests stem from an early fascination with rare inborn errors in mitochondrial metabolism in children which cause heart failure. Thereafter, he became interested in how similar derangements in cardiac metabolism contribute to common forms of heart failure in adults. His work defined a master regulatory axis that controls cardiac metabolism through pioneering studies on nuclear receptors (PPARs and ERRs) and the transcriptional coactivator PGC-1. More recently, the Kelly lab found that the failing heart begins to rely on ketone bodies as a fuel, work that has led to first in human studies of ketone supplementation in heart failure.