

Omid Rouzbehani is a PhD candidate at the University of Utah in the lab of Dr. Boudina, where his research focuses on the molecular regulation of cardiac metabolism and heart failure. His current work investigates the role of the transcriptional regulator PRDM16 in cardiomyopathy, examining how its loss impairs mitochondrial function and fatty acid oxidation, and how these defects may be rescued through overexpression of the metabolic regulator PERM1. His findings highlight novel mechanisms of cardiac metabolic adaptation and point to potential therapeutic targets for cardiomyopathies.

Omid has had a highly productive PhD, with four publications to date, one manuscript under review, and two additional manuscripts in preparation. In addition to his research, he is actively involved in mentoring and international student advocacy. He has presented his work at various conferences and is passionate about translating basic science discoveries into clinical insights.