### **EDITORIAL COMMENT**

# At the Crossroads of Cardiac Beta-Adrenergic Receptor Signaling and Myocardial Glucose Metabolism\*



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eart failure remains a leading cause of global mortality. Despite recent advances in clinical therapy, long-term prognosis is poor. Beta-adrenergic receptors (fARs) are members of the G protein-coupled receptor (GPCR) family and play a central role in the progression of heart failure. In the heart, \$2AR is a predominant isoform. Under including myocardial conditions. pathological ischemia and injury, fARs undergo GPCR kinase (GRK)-mediated desensitization and downregulation. Chronic desensitization of BARs leads to activation of the sympathetic nervous system, which in turn causes catecholamine toxicity resulting in ventricular dysfunction."

Cardiac energy metabolism is the process by which the heart produces the necessary amount of adenosine triphosphate (ATP) required to sustain contractile function. Under normal physiological conditions, the adult heart generates most of its ATP from fatty acid oxidation; however, glucose is also necessary for cardiac function in response to various physiological and pathological stimuli. It is well understood that adrenergic stimulation increases cardiac function, necessitating an increase for fuel and energy, but there is limited knowledge in how BAR signalling controls glucose uptake metabolism in the heart.

At the crossroads of cardiac fAR signaling and myocardial glucose metabolism is the recent study conducted by Jovanovic et al., published in this issue of JACC: Basic to Translational Science, in which the investigators aimed to determine how B2AR controls cardiac glucose metabolism. Jovanovic et al. showed that the cardiac \$2AR is required to stimulate glucose transporter type 4 (GLUT4)-mediated glucose uptake in 2 ex vivo model systems, isolated ventricular myocytes and isolated working hearts. Myocytes and hearts were isolated from mice with a cardiac-specific deletion of \$2AR (\$2AR cardiac knockout mice) and mice developed using Clustered Regularly Interspaced Short Palindromic Repeats knock-in technology, expressing endogenous \$2AR but lacking the GRK2 phosphorylation site at Ser355/356 (82AR GRK mutant mice). In the study, all mice exhibited normal and relatively similar cardiac function at baseline and after adrenergic stimulation with isoproterenol," Using these models. Jovanovic et al' first demonstrated that deletion of \$2AR inhibited adrenergic stimulation of GLUT4-mediated glucose uptake in myocytes and glucose oxidation in working hearts. In the working heart model, glucose oxidation was measured at baseline and after infusion of isoproterenol, and deletion of 52AR prevented isoproterenol induced increases in glucose oxidation.4 Additionally, membrane insertion of GLUT4 was blocked in the fizAR cardiac knockout mice working hearts. Jovanovic et al' then showed that stimulation of B2AR resulted in G: Akt-mediated GLUT4 translocation and glucose uptake in isolated myocytes from rat hearts. Adult myocytes were first pretreated with a \$1AR or \$2AR selective blocker and subsequently stimulated with isoproterenol, where pretreatment with the BZAR selective blocker prevented isoproterenol induced phosphorylation of Akt and completely blocked GLUT4 membrane insertion. The

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