



Autophagy: Chapter 23. Regulation of Autophagy in Obesity-Induced Cardiac Dysfunction

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Obesity, defined as accumulation of excessive body fat, has grown dramatically and imposes a devastating, pandemic health threat. If uncorrected, obesity may confer an increased susceptibility to the onset and development of insulin resistance, hypertension, type 2 diabetes, and the cadre of metabolic syndrome. More importantly, evidence from our group and other laboratories has demonstrated that obesity contributes to the development of cardiac anomalies. Although multiple signaling pathways have been identified as responsible for cardiac dysfunction in obese individuals, the precise mechanism still remains elusive. The autophagy–lysosome pathway, which regulates the degradation of large intracellular organelles and protein aggregates, is essential for the maintenance of cardiomyocytes under physiological and pathological conditions. Recent studies have suggested that the autophagy pathway plays a pivotal role in the development of cardiac anomalies induced by obesity. In the present chapter, we focus on how autophagy is involved in the regulation of cardiac function in obesity and metabolic syndrome.

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