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mTOR Signaling: New Insights into Cancer, Cardiovascular Diseases, Diabetes and Aging

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Message from the Guest Editors

The mechanistic target of rapamycin (mTOR), an atypical multidomain serine/threonine kinase of the phosphoinositide 3-kinase (PI3K) related kinase family, elicits a significant role in integrating intracellular and environmental cues that orchestrate gene transcription, protein synthesis, tissue regeneration and repair, oxidative stress, cell metabolism, growth, proliferation, autophagy, apoptosis, survival, and longevity. Aberrant activation of mTOR is potentially associated with the etiology of many pathological conditions, including cancer, obesity and diabetes, cardiovascular diseases, pulmonary hypertension, and neurodegeneration. Based on its pathophysiological importance, the mTOR signaling pathway has attracted unprecedented attention among basic scientists and clinicians.<false,>This Special Issue welcomes original research articles, reviews, or shorter perspective articles as well as novel technological approaches with an emphasis on the molecular aspects of mTOR signaling in metabolic syndrome, cardiovascular diseases, cancer, and aging, which would advance our knowledge to develop novel therapeutic or nutraceutical strategies to treat many human diseases.

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Message from the Editor-in-Chief

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