Special Issue

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

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.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.

Guest Editors

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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