

Special Issue

mTOR Signaling Network in Cell Biology and Human Disease

Message from the Guest Editors

The mechanistic target of rapamycin (mTOR) is a key regulator of cell homeostasis in response to environmental stimuli. Acting via two functionally different complexes, mTORC1 and mTORC2, this serine-threonine protein kinase regulates key aspects of cellular and organismal behavior. Not surprisingly, deregulation of mTOR is involved in numerous human diseases and conditions, including cancer, cardiovascular disease, metabolic diseases, and ageing. This Special Issue is focused on the mechanisms of regulation and function of mTOR in cellular biology, normal physiology, and disease, as well as on the preclinical and clinical research exploring mTOR as a molecular target for therapeutic intervention to treat various diseases and conditions and/or combat ageing.

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