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mTOR, Metabolism, and Diseases

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Message from the Guest Editor

Mechanistic target of rapamycin (mTOR) integrates extracellular and intracellular signals (e.g., growth factors, insulin, nutrients, and oxygen) to stimulate anabolism, including protein, lipid, and nucleic acid synthesis, and bolster cellular growth and proliferation while suppressing autophagy. mTOR forms two distinct complexes, mTOR complex 1 (mTORC1) and 2 (mTORC2), which differ in their composition, downstream targets, regulation, and sensitivity to the naturally occurring allosteric mTOR inhibitor, rapamycin.

This special issue “mTOR, Metabolism, and Diseases” will cover a selection of recent research topics and current review articles in the field of the mTOR signaling pathway.

- mTOR
- Rapamycin
- Inhibitor
- cancer
- metabolic syndrome
- aging
- mRNA translation
- 4E-BP
- S6K
- autophagy



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Special Issue



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Message from the Editor-in-Chief

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