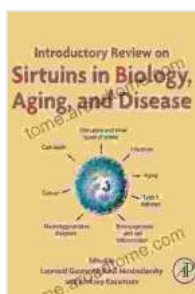


Introductory Review On Sirtuins In Biology Aging And Disease

Sirtuins are a family of proteins that play a role in a variety of biological processes, including aging, metabolism, and disease. They are highly conserved across species and have been shown to have a number of beneficial effects, including extending lifespan, protecting against age-related diseases, and improving metabolic health.



Introductory Review on Sirtuins in Biology, Aging, and Disease by Ellen G. Horovitz

★★★★★ 5 out of 5

Language : English
File size : 7534 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 220 pages



This book provides a comprehensive overview of the current state of knowledge on sirtuins, with a focus on their role in aging and disease. It covers a wide range of topics, including the molecular biology of sirtuins, their role in different tissues and organs, and their potential as therapeutic targets for a variety of diseases.

The Molecular Biology of Sirtuins

Sirtuins are a family of seven proteins (SIRT1-SIRT7) that are characterized by their unique enzymatic activity. They are NAD⁺-dependent deacetylases, which means that they remove acetyl groups from proteins. This activity has been shown to have a number of important effects on cellular function, including regulating gene expression, metabolism, and stress resistance.

Sirtuins are found in a variety of cellular compartments, including the nucleus, cytoplasm, and mitochondria. They have been shown to interact with a number of different proteins, including transcription factors, metabolic enzymes, and stress response proteins. These interactions allow sirtuins to regulate a wide range of cellular processes.

The Role of Sirtuins in Aging

Sirtuins have been shown to play a role in a number of age-related processes, including lifespan extension, age-related diseases, and cognitive decline. Studies in animal models have shown that sirtuins can extend lifespan by up to 50%. This effect is thought to be due to the ability of sirtuins to protect against age-related diseases, such as cancer, cardiovascular disease, and neurodegenerative disFree Downloads.

Sirtuins have also been shown to play a role in cognitive decline. Studies have shown that sirtuins can protect against age-related memory loss and improve cognitive function. This effect is thought to be due to the ability of sirtuins to protect neurons from damage and to promote neurogenesis.

The Role of Sirtuins in Disease

Sirtuins have been shown to play a role in a variety of diseases, including cancer, cardiovascular disease, and neurodegenerative disFree

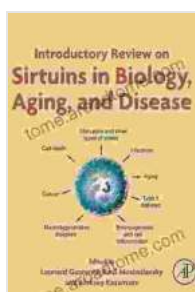
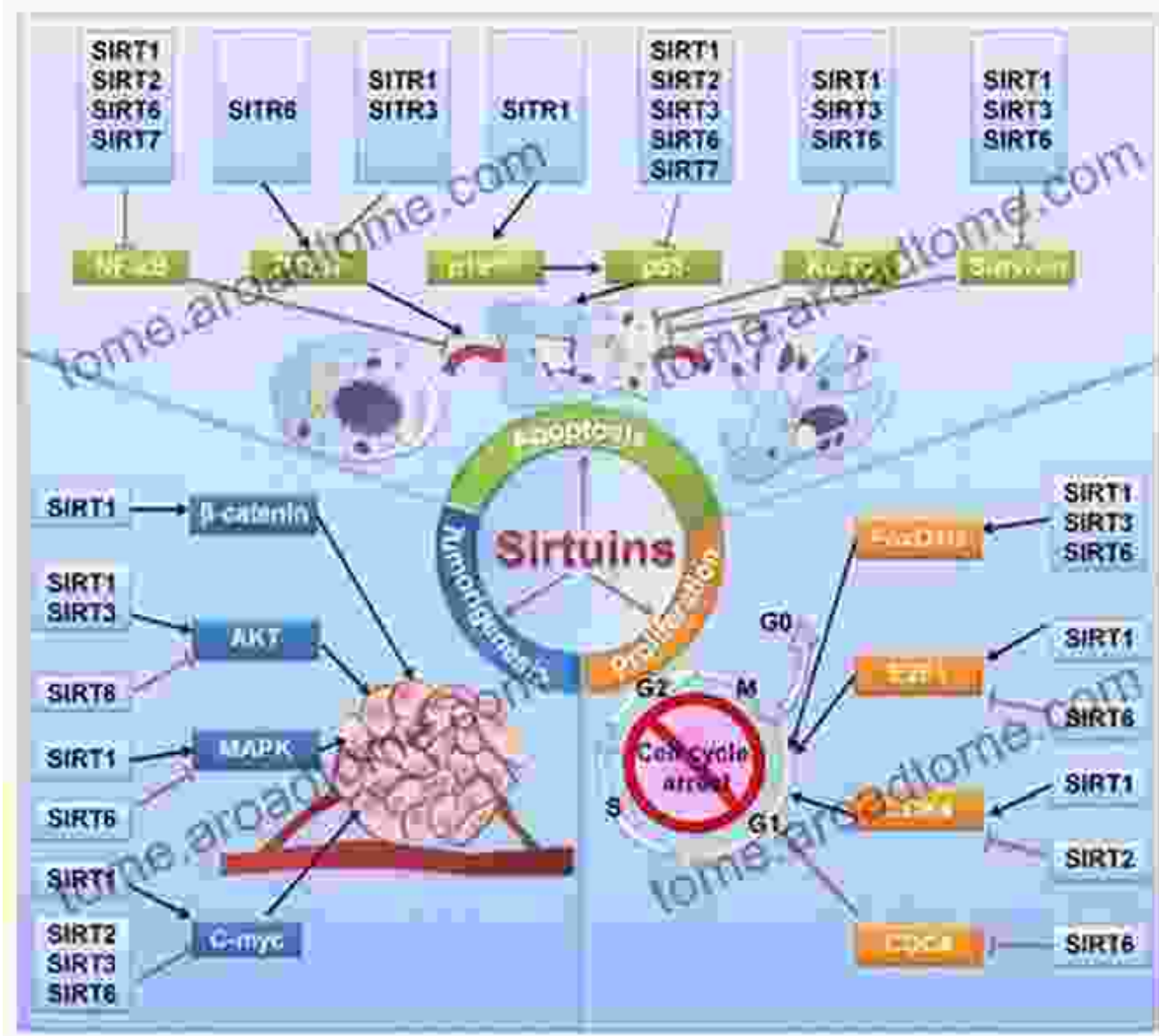
Downloads. In cancer, sirtuins have been shown to promote tumor growth and metastasis. In cardiovascular disease, sirtuins have been shown to protect against atherosclerosis and heart failure. In neurodegenerative disFree Downloads, sirtuins have been shown to protect against Alzheimer's disease and Parkinson's disease.

The role of sirtuins in disease is complex and still being investigated. However, it is clear that sirtuins play an important role in a number of different diseases and that they may be potential therapeutic targets for a variety of diseases.

Sirtuins are a family of proteins that play a role in a variety of biological processes, including aging, metabolism, and disease. They are highly conserved across species and have been shown to have a number of beneficial effects, including extending lifespan, protecting against age-related diseases, and improving metabolic health.

This book provides a comprehensive overview of the current state of knowledge on sirtuins, with a focus on their role in aging and disease. It is an essential resource for anyone interested in the biology of aging and disease.

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Introductory Review on Sirtuins in Biology, Aging, and Disease

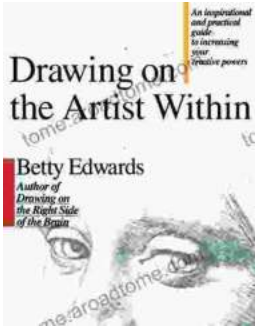
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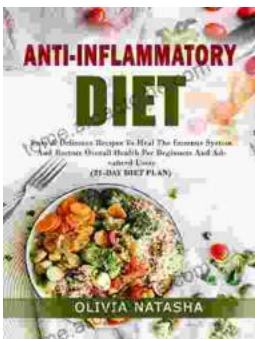
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