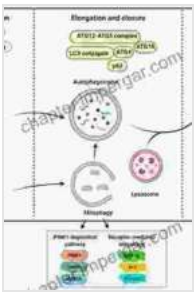
Autophagy and Cancer: Current Cancer Research



Autophagy and Cancer (Current Cancer Research Book 8) by Nick Kalyn

4 out of 5

Language	: English
File size	: 4914 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 278 pages

Autophagy is a cellular process that involves the degradation and recycling of cellular components. It is essential for maintaining cellular homeostasis and plays a role in a variety of cellular processes, including cell growth, differentiation, and death.

In recent years, there has been increasing interest in the role of autophagy in cancer. Autophagy has been shown to play a dual role in cancer development and treatment. On the one hand, autophagy can suppress tumor growth by promoting cell death and inhibiting cell proliferation. On the other hand, autophagy can also promote tumor growth by providing cancer cells with nutrients and energy.

The book "Autophagy and Cancer: Current Cancer Research" provides a comprehensive overview of the latest research on autophagy and its role in cancer development and treatment. The book is divided into four sections:

1. **Autophagy and Cancer Development**
2. **Autophagy and Cancer Treatment**
3. **Autophagy and Cancer Stem Cells**
4. **Autophagy and Cancer Metabolism**

The first section of the book provides an overview of the role of autophagy in cancer development. The authors discuss the different ways in which autophagy can suppress tumor growth and promote tumor growth. They also discuss the potential of autophagy as a target for cancer therapy.

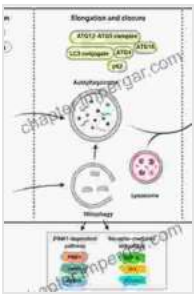
The second section of the book provides an overview of the role of autophagy in cancer treatment. The authors discuss the different ways in which autophagy can affect the response of cancer cells to chemotherapy, radiation therapy, and targeted therapy. They also discuss the potential of autophagy as a target for cancer therapy.

The third section of the book provides an overview of the role of autophagy in cancer stem cells. Cancer stem cells are a small population of cells that are responsible for the initiation and growth of tumors. Autophagy has been shown to play a role in the maintenance and survival of cancer stem cells. The authors discuss the potential of autophagy as a target for cancer therapy.

The fourth section of the book provides an overview of the role of autophagy in cancer metabolism. Cancer cells have a unique metabolic profile that is characterized by increased glucose uptake and lactate production. Autophagy has been shown to play a role in the regulation of

cancer metabolism. The authors discuss the potential of autophagy as a target for cancer therapy.

"Autophagy and Cancer: Current Cancer Research" is a comprehensive and up-to-date overview of the latest research on autophagy and its role in cancer development and treatment. The book is a valuable resource for researchers, clinicians, and students who are interested in the field of cancer research.



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