Introduction to Oncogenes and Molecular Cancer Medicine

AIP Conference Proceedings 438

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**Abstract**

Oncogenes play a critical role in the development and progression of cancer. In this chapter, we will discuss the nature of oncogenes and their role in cancer development. We will also explore the molecular mechanisms that underlie oncogene activation and the potential therapeutic implications.

**Keywords**

Oncogenes, Cancer, Molecular Mechanisms

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**Introduction**

Oncogenes are genes that, when activated, contribute to the development and progression of cancer. They are typically classified into two broad categories: proto-oncogenes and oncogenes. Proto-oncogenes are normal genes that play a role in cellular growth and differentiation. When activated, they can become oncogenes and lead to uncontrolled cell growth.

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**Proto-oncogenes to Oncogenes to Cancer**

Proto-oncogenes are normal genes that play a role in cellular growth and differentiation. When activated, they can become oncogenes and lead to uncontrolled cell growth. Oncogenes are known to be involved in the development of cancer due to their ability to cause cell proliferation and survival.

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**Targeted Therapies**

Targeted therapies are a class of cancer treatments that aim to block the activity of specific molecules involved in the development and progression of cancer. These therapies are designed to target the molecular abnormalities that are present in cancer cells, thereby blocking their growth and survival.

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**Conclusion**

In conclusion, oncogenes play a critical role in the development and progression of cancer. By understanding the nature of oncogenes and their role in cancer development, we can develop targeted therapies that aim to block the activity of specific molecules involved in the development and progression of cancer.

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**References**


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