

Innovative Approaches in Oncology: Targeted Therapies

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Abstract. Targeted therapies in oncology represent a significant shift from conventional treatments, focusing on specific molecular targets associated with cancer. This article examines recent innovations in targeted cancer therapies, discussing their mechanisms, applications, and the challenges faced in clinical settings. The potential for targeted therapies to improve survival rates while minimizing side effects is also explored.

Keywords: Oncology, Targeted Therapies, Cancer, Molecular Targets, Clinical Applications

Introduction

The field of oncology has witnessed a paradigm shift with the advent of targeted therapies. Unlike traditional treatments such as chemotherapy and radiation, targeted therapies focus on specific molecular targets that play a crucial role in cancer progression and survival. This article reviews the latest innovations in targeted therapies, exploring their mechanisms of action, clinical applications, and the challenges these therapies face in everyday clinical practice. Additionally, it discusses the potential for these therapies to improve patient outcomes by enhancing survival rates and reducing side effects. Despite their promise, targeted therapies face hurdles such as drug resistance and the high costs of development.

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