

Transporters As Targets For Drugs: A Comprehensive Guide

Transporters are essential for maintaining cellular homeostasis and play a critical role in drug absorption, distribution, metabolism, and excretion (ADME). They are responsible for the transport of a wide variety of molecules across cell membranes, including nutrients, ions, drugs, and metabolites. Targeting transporters offers a promising approach for developing new and effective therapies.



Transporters as Targets for Drugs (Topics in Medicinal Chemistry Book 4)

★★★★☆ 4.7 out of 5

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This book provides a comprehensive overview of the latest research on transporters as targets for drugs. It covers the fundamental principles of transporter biology, novel approaches to targeting transporters, and the clinical applications of transporter-targeted therapies.

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Chapter 1: to Transporters

This chapter provides an overview of the basic principles of transporter biology. It covers the different types of transporters, their structure and function, and their role in ADME. It also discusses the challenges of targeting transporters for drug delivery.

Chapter 2: Targeting Transporters for Drug Delivery

This chapter describes the different strategies that can be used to target transporters for drug delivery. It covers the use of prodrugs, inhibitors, and antibodies to modulate transporter activity. It also discusses the challenges of developing transporter-targeted therapies.

Chapter 3: Transporter-Mediated Drug Resistance

This chapter discusses the role of transporters in drug resistance. It describes the different mechanisms by which transporters can contribute to drug resistance, and it reviews the strategies that can be used to overcome transporter-mediated drug resistance.

Chapter 4: Clinical Applications of Transporter-Targeted Therapies

This chapter reviews the clinical applications of transporter-targeted therapies. It discusses the different types of transporter-targeted therapies

that are currently in use, and it provides an overview of the clinical trials that have been conducted to evaluate these therapies.

Chapter 5: Future Directions in Transporter Research

This chapter discusses the future directions of research on transporters as targets for drugs. It highlights the areas of research that are most likely to lead to new and effective therapies, and it provides a展望 for the future of transporter research.

Transporters are essential for maintaining cellular homeostasis and play a critical role in drug ADME. Targeting transporters offers a promising approach for developing new and effective therapies. This book provides a comprehensive overview of the latest research on transporters as targets for drugs, and it serves as a valuable resource for researchers and clinicians in the field of medicinal chemistry.



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