



assess and mitigate the risks associated with drugs targeting kidney transporters. These guidelines emphasize the evaluation of transporter-mediated DDIs during drug development and recommend post-marketing surveillance to monitor the long-term safety and effectiveness of medications [4-6].

## Discussion

The study of kidney transporters in medication discovery, development, and safety is a topic of great significance in the field of pharmacology. Understanding the role of kidney transporters in drug metabolism and their impact on medication efficacy and safety is crucial for optimizing therapeutic outcomes. This discussion will delve into the importance of kidney transporters in medication development, the challenges faced in this area, and the strategies employed to ensure their safety. Kidney transporters play a pivotal role in the absorption, distribution, metabolism, and excretion of drugs.

They are responsible for the uptake and excretion of various substances, including drugs, hormones, and toxins. Understanding their function and the impact of genetic variations and drug interactions is essential for developing safe and effective medications.

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