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**DRUG TRANSPORTERS - The Eye**
Membrane transporters play an important part in determining the pharmacokinetics of many drugs. Here, the International Transporter Consortium discusses key transporters with a role in drug ...

**Membrane transporters in drug development | Nature Reviews ...**
Membrane transporters play an important role in the absorption, distribution, clearance, and elimination of drugs. Supported by the pharmacokinetics data in human, several transporters including organic anion transporting polypeptide (OATP)1B1, OATP1B3, organic anion transporter (OAT)1, OAT3, organic cation transporter (OCT)2, multidrug and toxin extrusion (MATE) proteins, P-glycoprotein and ...

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Both metabolizing enzymes and drug transporters play important roles in modulating drug absorption, distribution, metabolism and elimination. Acting alone or in concert with each other they can affect the pharmacokinetics and pharmacodynamics of a drug. This paper will present cases from recent reviews of new drug application (NDA) and literature that exemplify the role of metabolizing enzyme ...

**Scientific and Regulatory Perspectives on Metabolizing ...**
Molecular medicine has led to rapid advances in the characterization of hepatobiliary transport systems that determine the uptake and excretion of bile salts and other biliary constituents in the liver and extrahepatic tissues.

**Bile Salt Transporters: Molecular Characterization ...**
A novel cloned polymorphism of the human concentrative nucleoside transporter hCNT3 was described and functionally characterized. This variant consists of a T/C transition leading to the substitution of cysteine 602 by an arginine residue in the core of transmembrane domain 13. The resulting hCNT3 C602R protein has the same selectivity and affinity for natural nucleosides and nucleoside ...

**Functional Characterization of a Nucleoside-Derived Drug ...**
Structural characterization of P-gp in various animal models (i.e., mouse and Caenorhabditis elegans) and in bacteria has been integral to our understanding of this drug transporter in the context of MDR.P-gp is unique in its ability to recognize a wide range of substrates as small as 100 Da and up to 4000 Da, with recent research demonstrating a role for P-gp in the efflux of much larger ...

**Efflux transporters in cancer resistance: Molecular and ...**
Transporter-mediated drug-drug interactions in the kidney dramatically influence the pharmacokinetics and other clinical effects of drugs. Human organic anion transporters 1 (hOAT1) and 3 (hOAT3) are the major transporters in the basolateral membrane of kidney proximal tubules, mediating the rate-limiting step in the elimination of a broad spectrum of drugs.

**POTENT INHIBITORS OF HUMAN ORGANIC ANION TRANSPORTERS 1 ...**

Drug transporters; molecular characterization and role in drug disposition. Ed. by Guofeng You and Marilyn E. Morris. Wiley-Interscience 2007 889 pages $150.00 Hardcover QP552 You (pharmacy, Rutgers University) and Morris (pharmaceutical sciences, State University of New York-Buffalo) provide a hands-on desk reference for researchers in the ...

**Drug transporters; molecular characterization and role in ...**

Characterization of drug transporters Many drug transporters are members of the adenosine triphosphate (ATP)-binding cassette (ABC) transporter superfamily or the solute-linked carrier (SLC) class.

**Membrane transporter proteins: a challenge for CNS drug ...**

Transporter-mediated drug–drug interactions in the kidney dramatically influence the pharmacokinetics and other clinical effects of drugs. Human organic anion transporters 1 (hOAT1) and 3 (hOAT3) are the major transporters in the basolateral membrane of kidney proximal tubules, mediating the rate-limiting step in the elimination of a broad spectrum of drugs. In the present study, we screened ...

**Potent Inhibitors of Human Organic Anion Transporters 1 ...**

Generally, molecular characterization of transporters in the eye can be performed at gene and protein levels. Reverse transcription–polymerase chain reaction (RT-PCR), Western blot analysis and immunohistochemical detection are the most commonly used laboratory techniques for molecular and cellular characterization of transporters. 3.2.1.