

Human Drug Transporters Genomic Database

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Human drug transporters are endogenous proteins that play an important role in the absorption, distribution and elimination of drugs or xenobiotics in the human body. Information about the drug transporters have recently become very valuable in the field of drug design, especially when designing a drug to increase its pharmacological effect while at the same time decreasing its adverse effects.

Recent progress in the analysis of the human genome has brought a significant increase in the number of studies being conducted on human drug transporters in the genetic level. From the results of these studies, and through the help of bioinformatics technologies, we have developed a comprehensive *Human Drug Transporters Genomic Database*.

The database contains a wealth of annotated information on transporter genes such as functional information, chromosomal position, SNPs, promoter analysis information and others. The promoter analysis information includes a number of information on transcription control elements that could be useful in the analysis of tissue specific expression or drug-dosage influenced gene expressions.

An overview of the database together with its possible future applications in the field of drug development is explained.