Colonic Drug Absorption And Metabolism Drugs And The Pharmaceutical Sciences

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Colonic Drug Absorption and Metabolism

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Colonic Drug Absorption and Metabolism (Drugs and the ...

The increased systemic availability associated with rectal treatment in this instance was ascribed to the fact that, following colonic absorption, a portion of the drug administered bypasses the liver—and, hence, first-pass metabolism—as a fraction of the venous blood flow from the rectum drains directly into the vena cava.

Colon Absorption - an overview | ScienceDirect Topics

ISBN: 0824790138 9780824790134: OCLC Number: 27978120: Description: viii, 224 pages : illustrations ; 24 cm. Contents: Anatomical and physiological basis: physiological factors influencing drug absorption / Christine A. Edwards --Drug metabolism in the colon wall and lumen / Johann W. Faigle --In vitro studies with colonic tissue, cellular, and subcellular preparations / Pierre Dechelotte and ...

Colonic drug absorption and metabolism (Book, 1993 ...

The human colon contains a diverse microbial population which contributes to degradation and metabolism of food components. Drug metabolism in the colon is generally poorly understood. Metabolomics techniques and in vitro colon models are now available which afford detailed characterization of drug metabolites in the context of colon metabolism. The aim of this work was to identify novel drug ...

Drug metabolome of the Simvastatin formed by human ...

A general hypothesis was put forth to explain route-dependent intestinal metabolism: intestinal drug metabolism behaves as if it were a preabsorptive event occurring predominantly during absorption, but little or no intestinal removal occurs for drug in the systemic circulation due to the inaccessibility of enzymes (Doherty and Pang, 1997).

MODELING OF INTESTINAL DRUG ABSORPTION: ROLES OF ...

Food and drug products are supplemented with small molecules called excipients that are assumed to be inert. In this study, we screened a collection of common oral excipients and identified 24 that inhibit intestinal drug transport, including the common excipient FD&C Red No. 40, which decreased drug absorption in mice. Excipient inhibitors were enriched for azo dyes, which human gut bacteria ...

Bacterial metabolism rescues the inhibition of intestinal ...

Hartiala K. Metabolism of hormones, drugs and other substances by the gut. Physiol Rev. 1973 Apr; 53 (2):496–534. De Marco TJ, Levine RR. Role of the lymphatics in the intestinal absorption and distribution of drugs. J Pharmacol Exp Ther. 1969 Sep; 169 (1):142–151. Sieber SM, Cohn VH, Wynn WT.

Intestinal absorption and metabolism of xenobiotics

Methadone and cytochrome P4503A (CYP3A) Methadone metabolism by human liver microsomes (HLM) and expressed cytochrome P450 enzyme (CYP) was extensively studied in the 1990's, and every report before 2004 concluded that human liver and intestinal microsomal methadone N-demethylation to EDDP was catalyzed predominantly by CYP3A4. 10–15 Based on these in vitro studies, and well-intended ...

Current Concepts in Methadone Metabolism and Transport

In the neonate, the absorption of chemicals from oral administration may occur in three different physiologic locations: stomach, small intestine, and colon. Drug absorption in the stomach is largely dependent upon gastric pH and gastric emptying time.

Physiology of the Neonatal Gastrointestinal System ...

Bioavailability of Black Tea Theaflavins: Absorption, Metabolism, and Colonic Catabolism. Pereira-Caro G(1), Moreno-Rojas JM(1), Brindani N(2), Del Rio D(2), Lean MEJ(3), Hara Y, Crozier A(4). Author information: (1)Department of Food and Health, Andalusian Institute of Agricultural and Fisheries Research and Training (IFAPA) , Avenida Menendez ...

Bioavailability of Black Tea Theaflavins: Absorption ...

Due to the lack of cytochrome P450 3A4 (CYP3A4) activities, Caco-2 model is not suitable for the investigation of intestinal first-pass metabolism. The purpose of this study is to evaluate a new human intestine model, EpiIntestinal microtissues, as a tool for the prediction of oral absorption and metabolism of drugs in human intestine.

In-Depth Characterization of EpiIntestinal Microtissue as ...

The small intestine plays an important role in the absorption and metabolism of oral drugs. In the current evaluation system, it is difficult to predict the precise absorption and metabolism of oral drugs.

Efficient Generation of Small Intestinal Epithelial-like ...

Drug absorption and metabolism are both complicated processes, with many physicochemical and physiological factors involved. Understanding the contribution of each of these processes is essential in regulating a drug's level in the bloodstream and in maintaining its optimum therapeutic outcome and safety.

Experimental models for predicting drug absorption and ...

First, modern pharmacological effects of BBR on glucose metabolism are summarized, such as improving insulin resistance, promoting insulin secretion, inhibiting gluconeogenesis in liver, stimulating glycolysis in peripheral tissue cells, modulating gut microbiota, reducing intestinal absorption of glucose, and regulating lipid metabolism.

Application of Berberine on Treating Type 2 Diabetes Mellitus

Despite accelerating evidence that the relationship between the host and the intestinal microbiota begins at birth and evolves during a lifespan [], there remains a paucity of knowledge regarding potential mechanisms by which this relation can affect drug absorption.We, and others, have previously reviewed selected mechanisms by which the gut microbiota influences drug metabolism, and in doing ...

Microbiome-mediated bile acid modification: Role in ...

Food and drug products contain diverse and abundant small-molecule additives (excipients) with unclear impacts on human physiology, drug safety, and response. Here, we evaluate their potential impact on intestinal drug absorption. By screening 136 unique compounds for inhibition of the key intestina ...

Bacterial Metabolism Rescues the Inhibition of Intestinal ...

Microbiome-mediated bile acid modification: Role in intestinal drug absorption and metabolism Once regarded obscure and underappreciated, the gut microbiota (the microbial communities colonizing the gastrointestinal tract) is gaining recognition as an influencer of many aspects of human health.

Microbiome-mediated bile acid modification: Role in ...

The small intestine plays an important role in the absorption and metabolism of oral drugs. In the current evaluation system, it is difficult to predict the precise absorption and metabolism of oral drugs.