Special Issue

Colon-Targeted Drug Delivery

Message from the Guest Editor

Colon-targeted drug delivery (CTDD) is achieved when a drug is prevented from being systemically absorbed and metabolized in the upper intestine, leading to delivery of a much greater amount of the intact drug to the large intestine. Compared with conventional drug delivery, colon-targeted delivery of a drug increases the concentration of the drug in the large intestine while reducing systemic absorption of the drug. Thus, CTDD should confer therapeutic and toxicological advantages for the treatment of colonic diseases such as inflammatory bowel disease. CTDD can also be utilized for chronotherapy and oral peptide therapy owing to the transit time to and low proteolytic activity in the large intestine. In addition, oral drug delivery systems aiming at sustained release of a drug in the GI tract can reach the large intestine, which affects the pharmacokinetics and therapeutic activity of the drug. This Special Issue welcomes any papers dealing with oral drug delivery system reaching the large intestine, including CTDD.

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