

Special Issue

Advances in Gastro-Retentive Drug Delivery Systems

Message from the Guest Editor

A major focus of drug-related research has, for many years, been on the synthesis and discovery of potent, pharmacologically active agents to manage, treat, or cure diseases. Surprisingly, the main difficulties encountered in achieving effective treatment are not always linked to the availability of potent drugs, but to the finding of appropriate vehicles or carriers to get the drug to the required location. The oral route is favoured for drug administration, as it is non-invasive and easy to administer, so it has a low impact on patients. It represents approximately 90% of all therapeutics used. Most drugs are absorbed in the stomach or in the upper part of the small intestine; however, the absorption, and hence its bioavailability, is definitively influenced by environmental factors such as variations of pH, fluctuation in gastric emptying time, or enzymatic activity, which leads to a significant variability in the effectiveness of the treatment.

Guest Editor

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