Special Issue

Bioinsopired Mucoadhesive Polymers for Oral Drug Delivery

Message from the Guest Editors

Oral administration is one of the most widely used administration routes for local and systematic drug delivery, but drugs administered in this manner often face harsh conditions in the gastrointestinal (GI) tract, leading to their degradation and limited bioavailability. Optimal drug delivery systems are thus needed to protect drugs from degradation and enhance their distribution and penetration through GI barriers. One of the current trends in the design and development of drug delivery systems is the utilization of biocompatible and biodegradable multifunctional polymers with mucoadhesive properties. Mucoadhesive formulations for oral drug delivery exhibit many advantages over conventional orally delivered drugs. This Special Issue aims to cover the next generation of polymers, with an emphasis on bioinspired and biomimetic polymers and their derivatives, which exhibit mucoadhesive properties, with an additional focus on novel properties for the further improvement of drug retention and bioavailability and smart drug delivery. Nano-based hybrid formulations conjugated with mucoadhesive polymers will also be highlighted.

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