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Liposomes for Transmucosal Drug Delivery

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Message from the Guest Editors

Dear Colleagues,

Liposomes are safe and biocompatible vesicular nanosystems that can incorporate hydrophilic, hydrophobic and amphiphilic small molecules, as well as macromolecules, nanoparticulates, or bacterial and virus material. With different sizes and surface properties, these versatile vesicles have a huge potential as nanocarriers to overcome body barriers. Transmucosal administration is an alternative route for a great variety of medications. Ocular infections, glaucoma, macular degeneration, dry eye or corneal pain demand innovative medicines able to cross ocular barriers. The development of sustained local delivery at the buccal, nasal, vaginal, gastrointestinal or vesical cavity is in high demand for many drugs. On top of that, liposomal vectors for DNA, mRNA and other types of vaccines intended for transmucosal delivery are highly sought after. Liposomal formulations may incorporate a great variety of active compounds and transport them from the mucous membrane to the target site.

This Special Issue aims to highlight current progress in the development of liposomes for the transmucosal delivery of drugs and vaccines.

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