

Special Issue

Emerging Technologies for Paediatric Drug Delivery

Message from the Guest Editors

The development of age-appropriate formulations for the pediatric population is still an unmet need and priority in healthcare provision. The current status of available dosage forms designed specifically for children is ailing, with adult medicines monopolizing pharmaceutical manufacturing. Flexibility in dose adjustment across all weight and age bands is essential for dose accuracy while, at the same time, facilitating ease of administration. At the same time, minimization of the excipient levels and of the duration and frequency of dosing might counterbalance the potential risks stemming from excipient exposure. The development of swallowable and palatable dosage forms is also fundamental in increasing patient acceptability, mitigating taste aversion and maximizing pediatric treatment adherence. This Special Issue is devoted to cutting-edge formulation technologies including, among others, additive manufacturing and electrospinning, taste-masking approaches, and medical and dosing devices to improve the availability of pediatric formulations, facilitate dose accuracy, enhance palatability, patient compliance, and therapeutic efficacy.

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