



## Non-invasive Drug Delivery Systems

Guest Editor:

**Dr. Driton Vllasaliu**

School of Cancer and  
Pharmaceutical Sciences, King's  
College London, 150 Stamford  
Street, London SE1 9NH, UK

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### Message from the Guest Editor

Many drugs, including a proportion of small drug molecules, as well as most biologics (peptides, therapeutic proteins, antibodies and nucleic acid-based therapeutics), are currently administered by injection. This is predominantly owing to the poor bioavailability following non-invasive (e.g. oral) administration. Non-invasive drug delivery offers many advantages over injection, including improved patient acceptability and adherence to therapy and potentially enhanced drug safety profile. The reduction in needle-related complications and healthcare costs achieved by non-invasive delivery can present further opportunities for medicines optimization.

With this Special Issue on 'Non-Invasive Drug Delivery Systems' it is aimed to present the current state-of-the-art in the field. The areas covered incorporate novel mucosal delivery systems (including but not limited to oral, pulmonary and nasal delivery systems), as well as non-invasive skin delivery systems. Delivery systems include formulations or devices utilised for delivery of drugs which normally require administration by injection (including but not limited to biologics).





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Department of Pharmaceutics,  
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Pharmacy, Rutgers University,  
Piscataway, NJ 08854, USA

## Message from the Editor-in-Chief

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MDPI, Grosspeteranlage 5  
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