

Special Issue

Iontophoresis for Drug Delivery and Non-Invasive Sampling Applications

Message from the Guest Editors

Iontophoresis is a versatile technique used for controlled drug delivery and non-invasive sampling applications. This drug delivery strategy has been exploited to increase and control the passage of molecules through biological membranes with applications in the transdermal, topical, ocular, dental, trans-ungueal and trans-mucosal routes of administration. Significant progress has improved our understanding of the mechanisms of transport and the design of efficient iontophoretic vehicles. Non-invasive sampling applications target the skin interface primarily. Several iontophoretic devices have gone through regulatory approval but demonstrated limited commercial success. This Special Issue will gather current progress in the iontophoresis field and critically evaluate what is the place of this technique in the future therapeutic armamentarium and what is required to better exploit iontophoresis for the benefit of patients. We invite articles from academics, industry and clinical researchers on all aspects of iontophoresis, from basic principles and theoretical modelling to basic and clinical research.

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