# **Special Issue**

# **Microneedles**

# Message from the Guest Editors

The microneedles field is entering an exciting period. Almost 50 years since the first patents were filed, the first commercially available drug product seems to finally be within reach. It based on systems microengineered from polymers, elemental silicon, metals, glass, or ceramic. The most common applications have been in vaccine delivery, cosmetic administration, drug delivery, etc. A plethora of strategies has been employed and, as manufacturing tools become ever more sophisticated, the technology has only been limited by researchers' imaginations. Alignment of thinking on critical quality attributes and standards of manufacture is bringing profound patient and commercial benefits. Microneedle research is truly interdisciplinary, harnessing expertise in engineering, computer science, pharmaceutical formulation, immunology, and pharmacology. Accordingly, this Special Issue seeks to showcase research papers, short communications, and review articles that focus on novel developments in microneedle technology and its use for various drug and vaccine delivery applications. cosmeceutical administration, as well as patient therapeutic drug monitoring and diagnosis.

### **Guest Editors**

Prof. Dr. Ryan Donnelly

School of Pharmacy, Queen's University Belfast, Belfast BT9 7BL, UK

Prof. Dr. Dennis Douroumis

Department of Pharmacy, School of Life and Health Sciences, University of Nicosia, 29th Street, No. 17, Elliniko, 167 77 Athens, Greece

### Deadline for manuscript submissions

closed (30 December 2020)



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Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

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#### Editor-in-Chief

Prof. Dr. Ai-Qun Liu

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

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