

Special Issue

Microneedles for Drug and Vaccine Delivery

Message from the Guest Editor

Microneedles have emerged as a state-of-the-art technology in drug and vaccine delivery, offering minimally invasive, safe, and efficient administration of various therapeutic agents. This technology addresses critical challenges in conventional delivery methods, potentially improving bioavailability, patient compliance, and targeted delivery. This Special Issue aims to showcase cutting-edge research in this rapidly evolving field. We invite contributions exploring the design, fabrication, characterization, and applications of microneedles across various domains, including drug delivery, cosmetics, diagnostics, and vaccination. Key areas of interest include the following:

- Physical enhancement technologies;
- Novel fabrication techniques;
- Advanced characterization methods;
- Innovative applications in drug and vaccine delivery;
- Cosmetic and diagnostic applications.

We welcome original research and reviews that push the boundaries of the current knowledge in microneedle technology. Your contributions will be instrumental in shaping the future of drug and vaccine delivery systems and advancing patient care across multiple therapeutic areas.

Guest Editor

Dr. Hiep (Ben) Nguyen

Department of Pharmaceutical and Biomedical Sciences, College of Pharmacy, California Northstate University, 9700 West Taron Drive, Elk Grove, CA 95757, USA

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

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Prof. Dr. Patrick J. Sinko

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

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