

Special Issue

Electrospinning for Biomedical Applications

Message from the Guest Editors

This Special Issue investigates the rapidly expanding landscape of electrospinning for biomedical applications, with a focus on how fiber-based architectures can be tailored to influence biological responses at multiple scales. Contributions in this volume explore strategies for optimizing polymer selection, incorporating bioactive cues, engineering multi-layer or composite systems, and integrating electrospinning with emerging fabrication approaches. Together, these studies demonstrate how this technology can contribute to controlled drug delivery, guided tissue regeneration, advanced wound care, biosensing, and implantable therapeutic platforms.

At the forefront of current research are dynamic and stimuli-responsive systems, fiber networks designed to regulate cell fate, and electrospun materials that bridge the gap between in vitro modelling and clinical translation.

The Special Issue seeks submissions that provide rigorous experimental evidence, thoughtful mechanistic interpretation, and clear advancement beyond existing methodologies. Work that connects material design with therapeutic performance, safety, and manufacturability is particularly encouraged.

Guest Editors

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Message from the Editor-in-Chief

Because of your expertise in the field of drug sciences, I kindly invite you to consider publishing your current work, in the form of a research article or a review, in the open access electronic journal *Pharmaceuticals*. *Pharmaceuticals* is characterized by an active editorial board and a dynamic editorial staff. Manuscripts are peer-reviewed and a final decision is provided to authors within 4–6 weeks after submission. Papers are published on the web immediately after acceptance. For details on the submission process or any other matter, please do not hesitate to contact us. We hope to handle your contribution to *Pharmaceuticals* soon.

Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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