# **Special Issue**

# Advanced Bioactive Nanoparticles for Precision Medicine

## Message from the Guest Editors

This Special Issue, "Advanced Bioactive Nanoparticles for Precision Medicine", aims to showcase cutting-edge research on the design and application of multifunctional nanoparticles engineered for precision medicine. The contributions focus on a variety of nanomaterials-including lipid-based, polymeric, metallic, and hybrid nanoparticles—designed to enhance therapeutic efficacy, minimize off-target effects, and integrate therapeutic functions within a single platform. By highlighting innovative strategies such as surface functionalization, stimuli-responsive release mechanisms, and therapeutic approaches, this Special Issue emphasizes the translational potential of nanoparticle-based systems in clinical settings. These nanoscale platforms leverage unique physicochemical properties to accurately deliver personalized treatments tailored to individual patient profiles within a shorter timeframe. The goal is to provide a comprehensive overview of current advancements, address ongoing challenges, and inspire future research at the intersection of nanotechnology, biology, and medicine.

## **Guest Editors**

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## Deadline for manuscript submissions

closed (31 October 2025)



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As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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