# **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**

#### Dr. Teresa Aditya

Department of Nuclear Engineering, The Pennsylvania State University, University Park, PA 16802, USA

#### Dr. Erica Quagliarini

NanoDelivery Lab, Department of Molecular Medicine, Sapienza University of Rome, Viale Regina Elena, 291, 00161 Rome, Italy

# Deadline for manuscript submissions

31 October 2025



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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

# Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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