

Special Issue

Applications of Dendrimers in Biomedicine, 2nd Edition

Message from the Guest Editors

Biomedicine represents one of the main study areas for dendrimers, which have proven valuable both in diagnostics and therapy due to their capacity for improving solubility, absorption, bioavailability, and targeted distribution. Many studies were performed in order to demonstrate the high potential of dendrimers as drug carriers in different pathologies such as cancer, diabetes, infections, inflammation, Alzheimer's disease, cardiovascular conditions, etc. Dendrimers are also studied in regenerative medicine (e.g., wound healing, tissue and cartilage reconstruction, bone remineralization, etc.) and the cosmetics industry. Furthermore, dendrimers have applications in diagnosis, resulting in improved imaging agents. In the present Special Issue, manuscripts covering aspects from the entire field such as synthesis, characterization methods, molecular simulations, regulatory, biological or clinical studies, potential applications in biomedicine, pharmacokinetics improvement, toxicity reduction, etc., are encouraged.

Guest Editors

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