

Special Issue

Dendrimers in Nanomedical Applications: Update and Future Directions

Message from the Guest Editors

Advances in nanoscience and nanotechnology enable the development of nanomedicine that can improve our quality of life. Dendrimers intended for medical use have been widely used as nano-carriers in biological and medical applications, particularly the diagnosis or therapeutics in the oncology domain. Current research on functionalized dendrimer-based theranostics has been growing owing to its nanometer-scale dimensions and unique physiochemical properties. Functionalized dendrimers can be used to build up various nanoplatforms for multimodal diagnostics (optical, magnetic, thermal, radionuclide imaging, etc.) and combined therapeutics (e.g., chemotherapy, photothermal therapy, radiotherapy, gene delivery, etc.) in a simultaneous, comprehensive and effective manner. This Special Issue will address advanced design and new developments in the area of dendrimer-based nanomaterials, including their production, synthesis, surface modification, characterization, and potential applications and future prospects as nanomedicine.

Guest Editors

Prof. Dr. Xiangyang Shi
Prof. Jean-Pierre Majoral
Prof. Dr. Serge Mignani

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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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