Special Issue

Dendrimers in Medicine

Message from the Guest Editors

Dendrimers, having precise nanostructures with synthetic control over: size, shape, and surface chemistry, are currently receiving great attention in a wide range of pharmaceutical and biomedical applications such as gene transfection, drug solubilisation, immunoassay, magnetic resonance imaging, chelating agents, and drug delivery. These highly branched macromolecules—described as having a well-defined, homogeneous, and monodisperse nanostructure—have a typically symmetric core, an inner shell, and terminal functional groups. The unique chemistry of dendrimers offers great opportunities to be tailored/engineered to facilitate drug conjugation (prodrug), drug encapsulation and/or surface modification with designed moieties that exhibit desired properties such as targeting, long circulation, etc. This Special Issue will provide a platform for presenting the latest research results on dendrimer applications in medicine.

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Deadline for manuscript submissions

closed (20 April 2018)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/8148

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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.

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