Special Issue

Targeted Drug Delivery and Nanocarriers

Message from the Guest Editors

Nanocarriers are widely explored systems for diagnostic and various drug delivery applications. Among the controlled drug delivery technologies, targeted drug delivery has attracted the attention of researchers, as it comprises the systemic delivery of the drug-carrier system to specific cell types, tissues, or organs. Multifunctional capabilities of nanocarriers make them suitable for the targeted delivery of drugs with diverse nature, including proteins, peptides, or DNA. Polymeric/lipid-based nanoparticles, nanocomposites, nanofibres, and carbon nanotubes are a few examples of nanocarriers which are used extensively. The surface of the nanoparticles is modified or conjugated with the suitable ligands for targetingin order to minimise the opsonization and to prolong the circulation time. Targeted nanoparticulate delivery would mainly be beneficial in diseases like cancer and diseases related to the brain. In this Special Issue, articles are invited to provide a recent insight into the nanocarriers which are useful for targeted drug delivery.

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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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