

## Special Issue

# Magnetic Nanoparticles 2019

### Message from the Guest Editors

Magnetic micro- and nanoparticles have been used in biological and biomedical investigations since the 1920s when Heilbrunn and Seifritz first used the forces on these particles to examine the rheological properties of cells. Since that time, myriad uses for these particles have arisen and much progress has been made in synthesis techniques and bio-functionalization. Superparamagnetic iron oxides are routinely used in the clinic today as MRI contrast agents and are found in many pathology laboratories around the world where they are used for cell separation assays. More recent, novel uses include binding to specific cell receptors to control cell function and stem cell differentiation for tissue engineering and regenerative medicine, as well as magnetic targeting for drug and gene delivery, magnetic fluid hyperthermia, and other novel applications. This issue will cover a variety of topics related to the use of MNPs in biomedicine and examine both novel synthesis and bio-functionalization techniques as well as their current and future uses in biomedical research, diagnostics and therapy.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 August 2019)



## International Journal of Molecular Sciences

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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