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Biomedical Applications of Supramolecular Chemistry

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submissions:

closed (10 June 2022)

Message from the Guest Editors

Dear Colleagues,

Supramolecular chemistry has always found a source of inspiration in living systems. In the past decades, the non-covalent interactions of biomolecules with synthetic ligands, supramolecular assemblies and nanoparticles, has a wide range of applications in biomedical field. In a time when society is demanding new solutions to health challenges (e.g. respiratory infectious diseases, antimicrobial resistance, cancer and neurological disorders) supramolecular chemistry might have a lot to say. This is the driving force behind this Special Issue.

The suggested topics are as below but not limited:

- Non-covalent interaction of synthetic systems with biomolecules and biomedical relevant compounds (nucleic acids, proteins, neurotransmitters, carbohydrates, toxins, etc.).
- Supramolecular systems applied to bioimaging techniques.
- Chemosensors for biomedically important metal cations and anions.
- Interactions of metal complexes (e.g. platinum, ruthenium, iridium, etc.) with biological substrates.
- Biomedical applications of nanoparticles and supramolecular polymers.



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Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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