



## Nucleic Acids Conjugates for Biotechnological Applications

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submissions:

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### Message from the Guest Editors

Dear Colleagues,

Biological activities are maintained by the cooperative actions of biomolecules (nucleic acids, proteins, lipids, small organic molecules, etc.). The details of the functionalization mechanisms of these cooperative actions have been elucidated. With the development of biological and chemical technologies, artificial modifications of such systems consisting of various biomolecules has been attempted.

Among biomolecules, nucleic acids are considered attractive molecules as functional units for molecular recognition (e.g., aptamers), as catalysts (e.g., ribozymes), and in gene regulation (e.g., riboswitches). Nucleic acids show specific and designable complementary recognition by base pairing, which cannot be achieved by other biomolecules.

This Special Issue focuses on the development of nucleic acid-based conjugates (including chemical conjugates with covalent bonds and complexed conjugate thorough intermolecular interaction) with different types of biomolecules. We welcome research papers showing the usefulness of nucleic acid conjugates consisting of diverse molecules in a wide range of fields.





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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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