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Trends and Prospects in Binding Proteins

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Binding proteins, through their unique energetically favorable formations, are responsible for the nexus of the molecular pathways responsible for the biochemical reactions that take place in cells. Mutations, protein modifications, agonists or antagonists, and stoichiometric alterations result in a variety of different phenotypes, gain-of-function, leaky function, or deleterious effects associated with diseases, therapeutic approaches, and applications of biotechnological interest. Modern high-throughput proteomic, NMR, and X-ray crystallography protein structure analyses and bioinformatics shed light on the complex protein nature, while genetic engineering provides the means for target modifications and testing of protein function. This Special Issue of Applied Biosciences, “Trends and Prospects in Binding Proteins”, is dedicated to novel experimental research findings and to summaries of current trends and prospects in binding proteins biochemistry, cell biology, and applied biotechnology.

Dr. Demetrios A. Arvanitis
Guest Editor