



Metal Binding Proteins 2020

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Message from the Guest Editor

Everyone knows that the functioning of any biological system is impossible without metal ions. Any biological system contains special proteins specifically interacting with metal ions. Metal ions play several major roles in proteins: structural, regulatory, and enzymatic. It regulates all important aspects of cell activity, beginning with fertilization and ending with apoptotic suicide at the end of the life cycle.

Despite the apparent good knowledge of the structure and properties of many metal-binding proteins, many aspects of their structure and, in particular, mechanisms of their functioning are still insufficiently studied. Studying the interactions of metal binding proteins with proteins of other classes allows us to reach a better understanding of their physiological functions. Modern methods of genetic engineering and knowledge of the three-dimensional structure of metal-binding proteins allow us to study their structure and functions at a new level. The obtained fundamental knowledge can already be used in applied science. Comprehensive reviews or original research articles are most welcome.





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