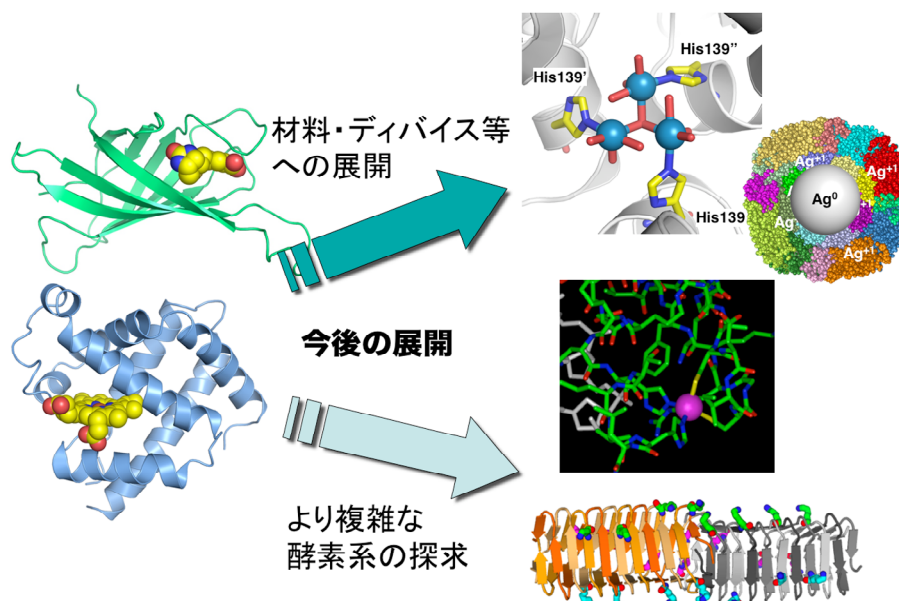


Special Session in 57th JSCC Symposium
"New Paradigm of Bioinorganic Chemistry"



Metal ions are widely observed in biological systems. Their functions include charge carrier, osmotic balance, construction of protein structures, hydrolysis, electron transfer, redox properties, and so on. The major research fields of bioinorganic chemistry have been the elucidation of structures of metalloproteins/metalloenzymes and their functions. Especially, the preparation of synthetic models for metal cofactors and examination of their functions have been attracted chemists as one of the most important discipline of science. In addition, regulation of DNA structures and functions by metal ions, metals in medicine, and bio-mineralization have also been extensively studied.

Now, it seems to be timely to consider the future of bioinorganic chemistry: What will be the most important subjects once we have gotten a whole picture of metalloenzymes, for example?

This session of "New Paradigm of Bioinorganic Chemistry" is intended to discuss the extension of the bioinorganic research toward the design and construction of bio-materials and bio-devices on the basis of molecular mechanisms as well as the most recent results on the metalloenzymes.