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Descrizione fisica	1 online resource (820 p.)
Collana	Wiley series in protein and peptide science
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 643-764) and index.
Nota di contenuto	The complexes of metal cations with low-molecular-mass compounds and of metal cations and proteins -- General regularities of the binding of metal cations to proteins -- Experimental methods used for studies of the binding of metal cations -- Calcium, calcium-binding proteins, and their major families -- Interactions of calcium-binding proteins with low-molecular-mass compounds, peptides, proteins, and membranes -- Calcium-binding proteins in various systems -- The binding of magnesium ions to proteins -- The binding of zinc ions to proteins -- The binding of copper ions to proteins -- Iron-binding proteins -- Molybdenum-containing and tungsten-containing proteins -- Proteins containing nickel and cobalt -- Manganese-containing proteins -- Sodium-binding and potassium-binding proteins -- Interactions of metal cations with nucleic acids -- "Non-physiological" metals.
Sommario/riassunto	Synthesizes the current knowledge in the field and provides new insights into medical applications Metalloproteomics is the large-scale study of metal-binding proteins. These proteins, which represent about one quarter of all the proteins in the Protein Data Bank, play important

roles in all biological systems and all biological processes. Metalloproteomics provides the latest information on all major families of metal-binding proteins, including their structural, physico-chemical, and functional properties, enabling readers to better understand these proteins. Moreover, the book demo