1. Record Nr. UNINA9910784724103321 Autore Crichton Robert R Titolo Biological inorganic chemistry [[electronic resource]]: an introduction / / Robert R. Crichton with the collaboration of Fre deric Lallemand, Ionna S.M. Psalti and Roberta J Ward Amsterdam;; Oxford,: Elsevier, 2008 Pubbl/distr/stampa **ISBN** 1-281-11215-1 9786611112158 0-08-055622-1 Descrizione fisica 1 online resource (383 p.) Disciplina 572.51 Bioinorganic chemistry Soggetti Chemistry, Inorganic Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Front cover; Biological Inorganic Chemistry An Introduction; Copyright page; Preface; Contents; Chapter 1. An Overview of Metals in Biology; Introduction; Why do we Need Anything Other Than C, H, N and O (Together with Some P And S)?; What are the Essential Metal Ions?; References; Chapter 2. Basic Coordination Chemistry for Biologists; Introduction; Hard and Soft Ligands; Coordination Geometry; Crystal Field Theory and Ligand Field Theory: References: Chapter 3. Biological Ligands for Metal Ions; Introduction; Protein Amino Acid Residues (and Derivatives) as Ligands

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Stabilization of Enolate Anions: The Enolase Super Family

## Sommario/riassunto

The importance of metals in biology, the environment and medicine has become increasingly evident over the last twenty five years. The study of the multiple roles of metal ions in biological systems, the rapidly expanding interface between inorganic chemistry and biology constitutes the subject called Biological Inorganic Chemistry. The present text, written by a biochemist, with a long career experience in the field (particularly iron and copper) presents an introduction to this exciting and dynamic field. The book begins with introductory chapters, which together constitute an overview of th