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Metal Ions in Biological Systems | Taylor & Francis Group

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Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry Volume 12, 1982 - Issue 4. Journal homepage. 18 Views 1 CrossRef citations to date

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Astrid Sigel has studied languages and was an editor of the Metal Ions in Biological Systems series (until Volume 44) and also of the Handbooks on Toxicity of Inorganic Compounds (1988), on Metals in Clinical and Analytical Chemistry (1994; both with H.G. Seiler), and on Metalloproteins (2001; with Ivano Bertini) (Dekker, New York).

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Metal ions play an important role in governing the structures and functions of different biological molecules. Metal ions prefer to bind to oxygen centers, which are readily available in many biological systems. They can play a direct or indirect role in biological processes.

Metal Ion - an overview | ScienceDirect Topics

METAL IONS IN BIOLOGY ?Occur in several forms ?Most advanced class- Metalloenzymes or BIOLOGICAL CATALYSTS ?Specific role ?Major- d-block elements ?But s-block elements are also important - -Structural role (Ca) -Enzymatic action (Mg) -Homeostatic balance (Na & K) 11. WHAT ARE THEIR ROLES???

METAL IONS IN BIOLOGY - SlideShare

Metallothioneins are proteins rich in metal ions found in living systems. The divalent cations Zn²⁺, Ca²⁺ and Mg²⁺ prevent cytotoxicity and in vivo antagonize Cd-induced carcinogenesis. Lack of body iron is common in cancer patients and it is associated with complications in surgery and in animal experiments.

The Role of Metal Ions in Biological Systems and Medicine ...

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Evolution of metal ions in biological systems - Wikipedia ...

In metalloproteins, metal ions are usually coordinated by nitrogen, oxygen or sulfur centers belonging to amino acid residues of the protein. These donor groups are often provided by side-chains on the amino acid residues.

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