

I am interested in Bioinorganic chemistry.

"Bio" suggests a relationship of life & "Inorganic" once Refers to materials that did not come from Living things.

Modern Definition of Bio inorganic is Broad ,simply "everything that is not organic chemistry".

We know that many Bio molecules are not only Hydrocarbons and many contain metal atom, including Mg, Ca, Fe, Cu, Mo, Zn and also Zn ion present in many bio molecules , there are Zn containing enzymes also present. Infact proteins which are present in our body contains metal ions.

We know High amount of energy require to break free nitrogen but it becomes very easy for nitrogenase enzyme which contain Molybdenum metal (Mo) , as an active centre.

Metal concentration in biological system also play an important role, excess amount of metal also harmful for biological activity.

Really its very interesting topic for research, which connect biochemistry to inorganic chemistry  
**specific problem i wish to investigate**

TOXIC EFFECT OF METALS - the presence of excess quantities of an essential metal can be as deleterious as insufficient amounts. This situation can arise from accidental ingestion of the element or from metabolic disorders leading to the incapacitation of normal biochemical mechanisms that control intake and distribution phenomena. These possibilities Creates one major class of metal toxicity. The other broad class results from entry of nonessential metals into the cell through food, skin absorption, or respiration. The toxicities associated with this latter class have received much recent attention because of the public health risks of chemical and radioisotopic environmental pollutants. In this section, we survey examples of both categories, and discuss ways in which bioinorganic chemistry can contribute to the removal of toxic metals and restoration of normal function. One way involves chelation therapy, in which metal-specific chelating agents are administered as drugs which excrete toxic metal from our