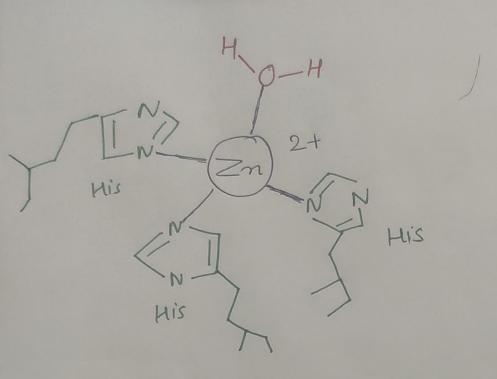


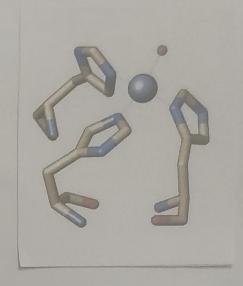
Hemoglobin (Hb). Is quite important to transferring O2 for our blood from the lungs to the Hossies. It taking clioxygen from the air in the lungs and delivering it to Mb Mg oglobin in tissue

2. Hemoglobin is a multisubunit protein with & and B two unit each polypeptide chains.

3. In deaxy Hb, the (Fe) iron lies : 0.36-0.40 Å out of the prophysin sing plane but moves within ±0.12Å of the plane upon binding of dioxygen.

4. Hb molecule exhibits lower affinity for the first molecule of 02 to bird . 9+3. affinity Processes as subsequent oxygen molecule bind. Cooperative binding. ky>kxxxk,





Carbonic Anhydrase.

1. The Active site contains of Zn^{2+} ion, tetrahedrally coordinated. 3 sides are ligated by histiding with zince and fourth position is water molecule.

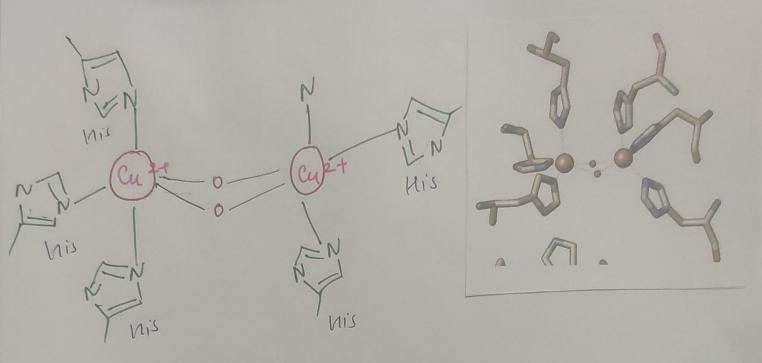
Contonic Anhydran is a metalloenzyme. It is catalyses the

reversible hydration of Carbonchioxide

Primary function of enzyme is to Enterconvert co2 & bicarbonde to maintain acid - base balance in blood and tissue.

It helps to transport coz out of the time.

5. A pkg value of I has been assigned to the Zinchound water water which must be hydroxyl ion after that at pH 8.5. that is the pH of crystallization medium



lymsinase

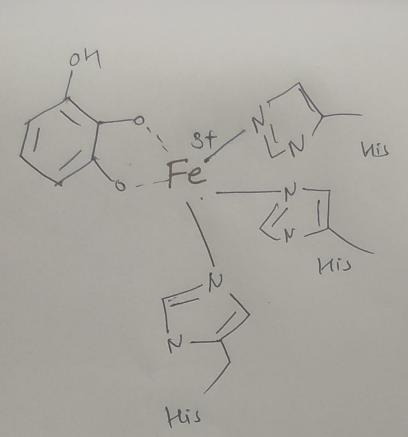
1. There are two copper center and a center is ligated with three histidine and in between O_2^2 - which shown above.

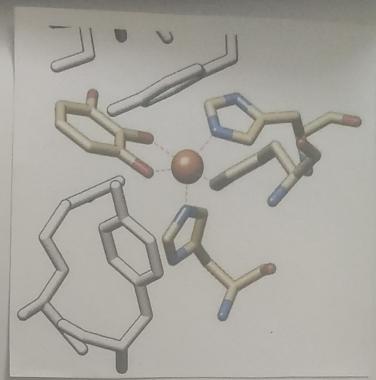
2. Tyrosinax actually oxidize phenol from monophenol to diphenol and from diphenol to quinone (brown in wolor)

Browning on the swiface of potato and apple is very important because it protects that Instits and other to distory the surface, If we want to eat, we can cut and eat.

Dicopper units is work like bridge with this peroxides. 4.

Tyrosinan contain two copper ions in close proximity i'n cits active site and which has deoxy, oxy, and met states that 5. closely bresemble comparable. State of homocyanin in their Spectro scopic properties.



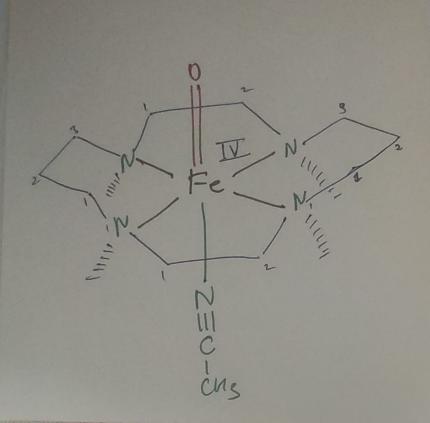


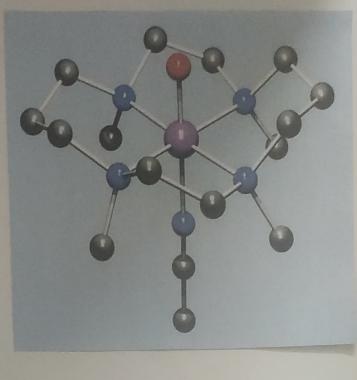
Catechol 1,2-dioxygenax

1. Catechol dioxygenare cleaves the bond between the phenolic hydroxyl groups of catechol wring an Fe3+ lofestor

d. We can also convert benzene to catechol in presence of dioxygen so this catechol dioxygen is responsible for clearing the conditatechol

3. Two type of cleave (1) Extraction—outside the did over Extraction dioxygenan in presence of Fe (II) in enzymetre system (2) Intraction dioxygenan—it cleave blue two child group and Fe(III) ions is involved in the enzymetre system





Non-heme Fe(IV) oxo

- 1. High-valent iron-oxo intermediates are frequently invoked for the Catalytic cycles of mononuclear iron enzymes that activate 02 to effective matabolically important oxidative transformation.
- 2 These species are characterized for home enzymes such as cytochrome PUSD and peroxidax (referred to compound I4I)
- 3. We can isolate and characterized a non-home complex with a terminal Fe(IV)=0 unit. To find ligant environment, which increase the dife of Fe(IV)=0 moiety and crystallization as well as its exidative reactivity.