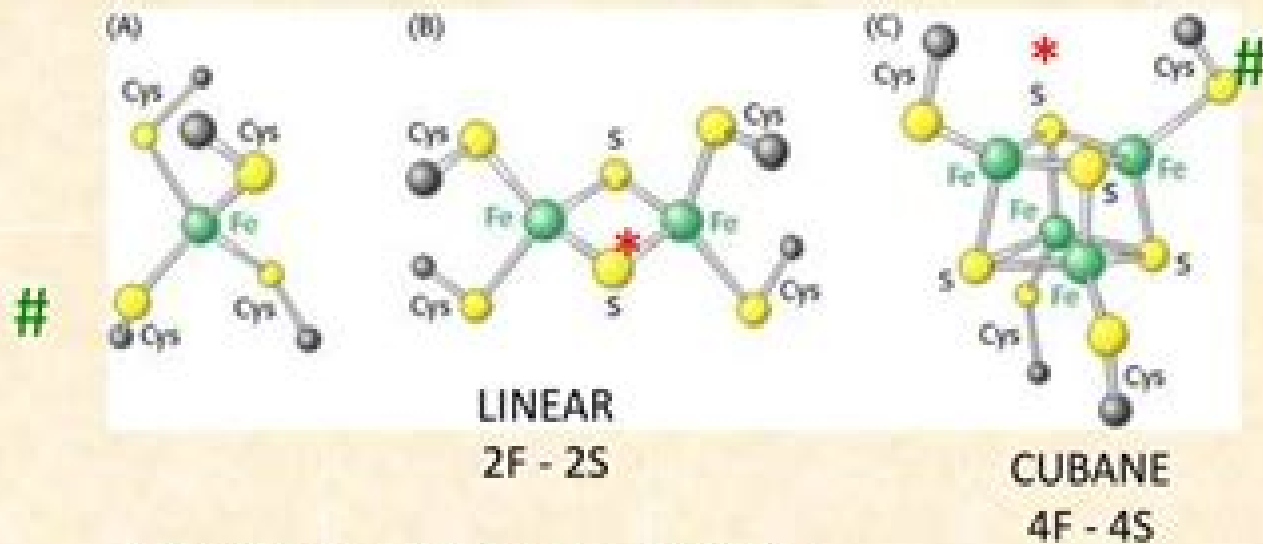


ETC: IRON – SULFUR PROTEINS

ELECTRON CARRIERS

- **REDOX** rxns in membrane (cytoplasm = non-ETC)
- Non-heme iron bound to:
 - Sulfur of cysteine on protein (#)
 - “acid-labile” sulfur * (sulfide)



SEVERAL DIFFERENT Fe-S CLUSTERS

Sulfur In Proteins

Christopher T Walsh



Sulfur In Proteins:

Sulfur in Proteins Reinhold Benesch, 2012-12-02 *Sulfur in Proteins* is a collection of papers presented at the 1958 Symposium on Sulfur in Proteins held in Falmouth Massachusetts. The symposium primary aims to explore the varied and unusual roles of S-S and SH groups in proteins. This book is organized into eight chapters that cover a wide variety of proteins including serum iron copper and muscle proteins as well as enzymes and viruses. The opening chapter describes the various protein reactions involving sulfur emphasizing the chemical modification of thiol and disulfide groups. Considerable chapters are devoted to the chemical properties, biogenesis, reactivity and oxygenation of specific proteins. A chapter highlights some aspects of protein structure in relation to the role of S-S and SH groups in enzymic catalysis. This chapter also describes the properties of sulfhydryl groups in yeast alcohol dehydrogenase. The final chapters examine the role of sulfur groups in several virus proteins and in cell division. This work will be of great value to protein scientists and researchers.

Sulfur in Proteins Reinhold Benesch, 1959 *Sulfur in Proteins* I. U. Moiseevich Torchinskiĭ, David E. Metzler, 1981-01-01 ***Sulfur in Proteins*** Reinhold Benesch, 1959 ***Iron-Sulfur Proteins***, 1999-06-07 *Advances in Inorganic Chemistry* presents timely and informative summaries of the current progress in a variety of subject areas within inorganic chemistry ranging from bioinorganic to solid state. This acclaimed serial features reviews written by experts in the area and is an indispensable reference to advanced researchers. Each volume of *Advances in Inorganic Chemistry* contains an index and each chapter is fully referenced.

Chemical Biology of Sulfur Christopher T Walsh, 2020-06-10 This volume aims to provide an in depth view of the complete biochemistry of sulfur with an emphasis on aspects not covered elsewhere. Given its role in the formation of proteins and presence in the amino acids methionine and cysteine sulfur is essential to life. Current literature on the biochemistry of sulfur is vast and widely dispersed as such this volume is intended as a single source for everything concerning sulfur biochemistry from metabolic roles of inorganic sulfur to thiol and thioether chemical biology to the universality of cysteine chemistry in proteomes. Authored by a renowned biochemist and experienced writer and educator this book is ideal for students and researchers in biochemistry, biology and the life sciences with an interest in sulfur and its role in life.

Chlorophyll-proteins, Reaction Centers, and Photosynthetic Membranes John M. Olson, Geoffrey Hind, 1977 *Journal of the American Chemical Society* American Chemical Society, 1926 Proceedings of the Society are included in v 1 59 1879 1937 *Iron-Sulfur Clusters in Chemistry and Biology* Tracey Rouault, 2014-08-20 This volume on iron sulfur proteins includes chapters that describe the initial discovery of iron sulfur proteins in the 1960s to elucidation of the roles of iron sulfur clusters as prosthetic groups of enzymes such as the citric acid cycle enzyme aconitase and numerous other proteins ranging from nitrogenase to DNA repair proteins. The capacity of iron sulfur clusters to accept and delocalize single electrons is explained by basic chemical principles which illustrate why iron sulfur proteins are uniquely suitable for electron transport and other activities. Techniques used for detection and stabilization of iron sulfur clusters including EPR

and Mossbauer spectroscopies are discussed because they are important for characterizing unrecognized and elusive iron sulfur proteins Recent insights into how nitrogenase works have arisen from multiple advances described here including studies of high resolution crystal structures Numerous chapters discuss how microbes plants and animals synthesize these complex prosthetic groups and why it is important to understand the chemistry and biogenesis of iron sulfur proteins In addition to their vital importance in mitochondrial respiration numerous iron sulfur proteins are important in maintenance of DNA integrity Multiple rare human diseases with different clinical presentations are caused by mutations of genes in the iron sulfur cluster biogenesis pathway Understanding iron sulfur proteins is important for understanding a rapidly expanding group of metabolic pathways important in all kingdoms of life and for understanding processes ranging from nitrogen fixation to human disease

Nonheme Iron Proteins—Advances in Research and Application: 2012 Edition ,2012-12-26

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