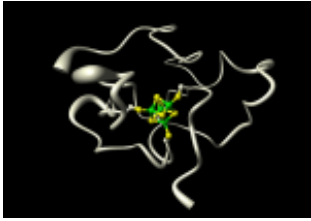
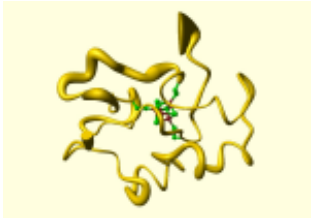
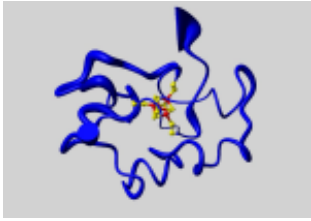
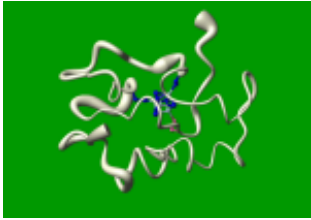
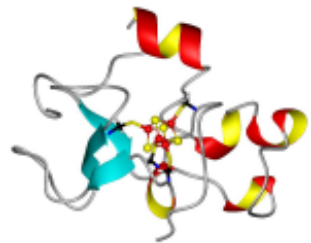


IRON-SULFUR PROTEINS

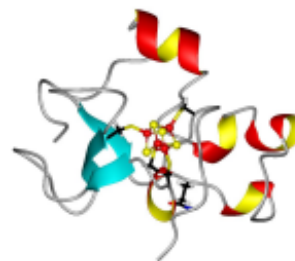
High-potential iron-sulfur proteins

<p>Banci, L., Bertini, I., Eltis, L.D., Felli, I.C., Kastrau, D.H.W., Luchinat, C., Piccioli, M., Pierattelli, R., Smith, M.</p> <p>The three dimensional structure in solution of the paramagnetic protein high-potential iron-sulfur protein I from <i>Ectothiorhodospira halophila</i> through nuclear magnetic resonance</p> <p>Eur.J.Biochem., 225: 715-725, 1994</p>	 <p>PDB code: 1PIH, 1PIJ</p>
<p>Banci, L., Bertini, I., Dikiy, A., Kastrau, D.H.W., Luchinat, C., Sompornpisut, P.</p> <p>The three- dimensional solution structure of the reduced high potential iron sulfur protein <i>Chromatium vinosum</i> through NMR</p> <p>Biochemistry, 34: 206-219, 1995</p>	 <p>PDB code: 1HRQ, 1HRR</p>
<p>Bertini, I., Dikiy, A., Kastrau, D.H.W., Luchinat, C., Sompornpisut, P.</p> <p>Three dimensional solution structure of the oxidized HiPIP from <i>Chromatium vinosum</i> through NMR. Comparative analysis with the solution structure of the reduced species</p> <p>Biochemistry, 34: 9851-9858, 1995</p>	 <p>PDB code: 1NEH</p>
<p>Bentrop, D., Bertini, I., Capozzi, F., Dikiy, A., Eltis, L.D., Luchinat, C.</p> <p>Three dimensional structure of the reduced C77S mutant of the <i>Chromatium vinosum</i> high potential iron-sulfur protein through NMR: comparison with the solution structure of the wild-type protein</p> <p>Biochemistry, 35: 5928-5936, 1996</p>	 <p>PDB code: 1NOE</p>
<p>Parisini, E., Capozzi, F., Lubini, P., Lamzin, V., Luchinat, C., Sheldrick, G. M.</p> <p>Ab Initio solution and refinement of two high-potential iron protein structures at atomic resolution</p> <p>Acta Crystallogr., Sect.D, 55: 1773-1784, 1999</p>	 <p>PDB code: 1CKU</p>

Parisini, E., Capozzi, F., Lubini, P., Lamzin, V., Luchinat, C., Sheldrick, G. M.

Ab Initio solution and refinement of two high potential iron protein structures at atomic resolution

Acta Crystallogr., Sect.D, 55: 1773-1784, 1999



PDB code: 1B0Y

Gonzalez, A., Benini, S., Ciurli, S.

Structure of *Rhodospirillum rubrum* high-potential iron-sulfur protein solved by MAD

Acta Crystallogr., Sect.D, 59: 1582-1588, 2003

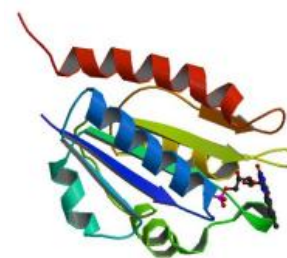


PDB code: 1HLQ

Banci, L., Bertini, I., Calderone, V., Ciofi-Baffoni, S., Giachetti, A., Jaiswal, D., Mikolajczyk, M., Piccioli, M., Winkelmann, J.

A molecular view of an electron transfer pathway essential for iron-sulfur protein biogenesis

Proc.Natl.Acad.Sci.USA, 110 : 7136-7141, 2013

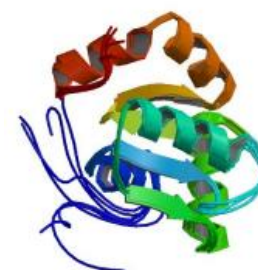


PDB code: 4H2D

Banci, L., Brancaccio, D., Ciofi-Baffoni, S., Del Conte, R., Gadepalli, R., Mikolajczyk, M., Neri, S., Piccioli, M., Winkelmann, J.,

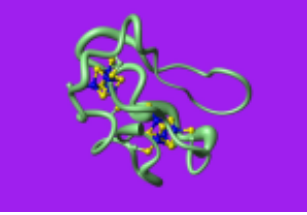
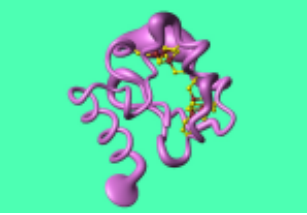
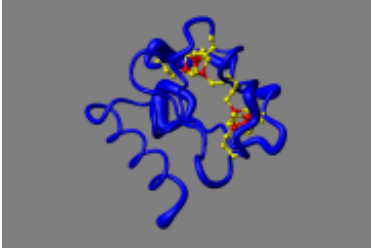
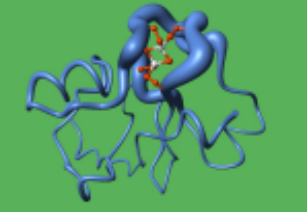
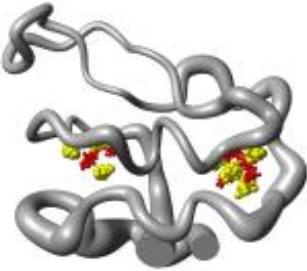
[2Fe-2S] cluster transfer in iron-sulfur protein biogenesis

Proc.Natl.Acad.Sci.U.S.A, 111, 6203-6208, 2014



PDB code: 2MMZ

Ferredoxins

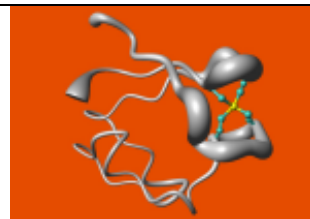
<p>Bertini, I., Donaire, A., Feinberg, B.A., Luchinat, C., Piccioli, M., Yuan. H. Solution structure of the oxidized 2[Fe₄S₄] ferredoxin from <i>Clostridium pasteurianum</i> Eur.J.Biochem., 232: 192-205, 1995</p>	 <p>PDB code: 1CLF</p>
<p>Aono, S., Bentrop, D., Bertini, I., Donaire, A., Luchinat, C., Niikura, Y., Rosato, A. Solution structure of the oxidized Fe₇S₈ ferredoxin from the thermophilic bacterium <i>Bacillus schlegelii</i> by ¹H NMR spectroscopy Biochemistry, 37: 9812-9826, 1998</p>	 <p>PDB code: 1BC6, 1BD6</p>
<p>Aono,S., Bentrop, D., Bertini, I., Cosenza,G., Luchinat,C. Solution structure of an artificial Fe₈S₈ ferredoxin: the D13C variant of <i>Bacillus schlegelii</i> Fe₇S₈ ferredoxin Eur.J.Biochem., 258: 502-514, 1998</p>	 <p>PDB code: 1BQX, 1BWE.</p>
<p>Im, S. C., Liu, G., Luchinat, C., Sykes, A.G., Bertini, I. The solution structure of parsley (2Fe-2S) ferredoxin. Eur.J.Biochem., 258: 465-477, 1998</p>	 <p>PDB code: 1PFD</p>
<p>Antonkine, M.L., Liu, G., Bentrop, D., Bryant, D.A., Bertini, I., Luchinat, C., Stehlik, D., Golbeck, J.H. Solution structure of the unbound, oxidized Photosystem I subunit PsaC, containing [4Fe-4S] clusters F(A) and F(B): a conformational change occurs upon binding to photosystem I J.Biol.Inorg.Chem., 7: 461-472, 2002</p>	 <p>PDB code: 1K0T</p>

Rubredoxins

Bertini, I., Kurtz, D.M. Jr., Eidsness, M.K., Liu, G.,
Luchinat C., Rosato, A. and Scott, R.A.

**The solution structure of reduced *Clostridium*
pasteurianum rubredoxin**

J.Biol.Inorg.Chem., 3: 401-410, 1998



PDB code: 1BFY