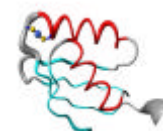


## Publications 2001

### Structural genomics/structural biology

- 1) Arnesano, F., Banci, L., Bertini, I., Cantini, F., Ciofi-Baffoni, S., Huffman, D.L. and O'Halloran, T.V. Characterization of the binding interface between the copper chaperone Atx1 and the first cytosolic domain of Ccc2 ATPase, **J.Biol. Chem.** 276: 41365-41376, 2001

- 2) Arnesano, F., L. Banci, I. Bertini, D.L. Huffman, T.V. O'Halloran. Solution Structure of the Cu(I) and Apo forms of the Yeast Metallochaperone, Atx1. **Biochemistry** 40: 1528-1539, 2001



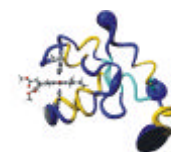
PDB code: 1FD8, 1FES

- 3) Banci, L., Bertini, I., Del Conte, R., Markey, J. and Ruiz-Duenas, F.J. Copper trafficking: the solution structure of Bacillus subtilis CopZ, **Biochemistry** 40: 15660-15668, 2001.



PDB code: 1KOV

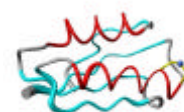
- 4) Banci, L., I. Bertini, B. Branchini, P. Hajieva, G.A. Spyroulias, P. Turano. Dimethyl Propionate Ester Heme- Containing Cytochrome b<sub>5</sub>: Structure and Stability. **JBIC**, 6 490-503, 2001.



PDB code: 1MNY

- 5) Banci, L., I. Bertini, G. Liu, T. Reddig, W. Tang, Y. Wu, D. Zhu. Effects of Extrinsic Imidazole Ligation on Molecular and Electronic Structure of Cytochrome c. **JBIC**, 6 628-637, 2001. PDB code: 1FI7, 1FI9

- 6) Banci, L., I. Bertini, S. Ciofi-Baffoni, D.L. Huffman, T.V. O'Halloran. Solution structure of the yeast copper transporter domain Ccc2a in the apo and Cu(I)-loaded states. **J.Biol.Chem.** 276: 8415-8426, 2001.



PDB code: 1FVS, 1FVQ

- 7) Bertini, I., M.B.L. Janik, G. Liu, C. Luchinat, A. Rosato. Solution structure calculations through self-orientation in a magnetic field of cerium (III) substituted calcium-binding protein. **J.Magn.Reson.** 148: 23-30, 2001.

- 8) Bertini, I., S. Ciurli, A. Dikiy, C.O. Fernández, C. Luchinat, N. Safarov, S. Shumilin, A.J. Vila. The first solution structure of an oxidized paramagnetic copper (II) protein : the case of plastocyanin from the cyanobacterium *Synechocystis* PCC6803. **J.Am.Chem.Soc.** 123: 2405-2413, 2001



PDB code: 1IOW, 1IOY

## Spectroscopy and Methodologies

- 1) Bertini, I., J. Kowalewski, C. Luchinat, G. Parigi. Cross-correlation between the dipole-dipole interaction and the Curie spin relaxation. The effect of anisotropic magnetic susceptibility. **J.Magn.Reson.**, 152: 103-108, 2001
- 2) Bertini, I., Y.-M. Lee, C. Luchinat, M. Piccioli, L. Poggi. Locating the metal ion in calcium binding proteins through Cerium(III) as a probe. **ChemBioChem** 2: 550-558, 2001.
- 3) Bertini, I., M.B.L. Janik, Y.-M. Lee, C. Luchinat, A. Rosato. Magnetic Susceptibility Tensor Anisotropies for a Lanthanide Ion Series in a Fixed Protein Matrix. **J.Am.Chem.Soc.** 123: 4181-4188, 2001.
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- 5) Bertini, I., Donaire, A., Jimenez, B., Lee, Y.-M., Luchinat, C., Parigi, G., Piccioli, M. and Poggi, L. Paramagnetism-based Versus Classical Constraints: An Analysis of the Solution Structure of Ca Ln Calbindin D9k., **J.Biomol.NMR** 21: 85-98, 2001.

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- 6) Bertini I., Hajieva P., Luchinat C., Nerinovski K. Redox-dependent hydration of cytochrome c and cytochrome b5 studied through 17O NMRD, 2001. **J.Am.Chem.Soc.**, 123: 12925-12926, 2001
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- 8) Dilg, A.W.E., Capozzi, F.; Mentler, M.; Iakovleva, O.; Luchinat, C.; Bertini, I.; Parak, FG., Comparison and characterization of the (Fe4S4)2+/3+ centre in the wild type and C77S mutated HiPIP's from Chromatium vinosum monitored by Mossbauer, 57Fe ENDOR and EPR spectroscopies. **JBIC** 2001, 6, 232-246
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- 2) Banci, L., I. Bertini, I.C. Felli, P. Hajieva, M.S. Viezzoli. Side chain mobility as monitored by CH-CH cross correlation: the example of cytochrome b5. **J.Biomol.NMR** 20: 1-10, 2001
- 3) Barker, P.B., I. Bertini, R. Del Conte, S.J. Ferguson, P. Hajieva, P. Tomlinson, P. Turano, M.S. Viezzoli. A further clue to understanding the mobility of mitochondrial yeast cytochrome c: a 15N T1ρ investigation of the oxidized and reduced species. **Eur J.Biochem.** 268: 4468-4476, 2001

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