

CERM publications 2006

1. Ab, E., Atkinson, A. R., Banci, L., Bertini, I., Ciofi-Baffoni, S., Brunner, K., Diercks, T., Doetsch, V., Engelke, F., Folkers, G., Griesinger, C., Gronwald, W., Gunther, H., Habeck, M., de Jong, R., Kalbitzer, H. R., Kieffer, B., Leeftang, B. R., Loss, S., Luchinat, C., Marquardsen, T., Moskau, D., Neidig, K. P., Nilges, M., Piccioli, M., Pierattelli, R., Rieping, W., Schippmann, T., Schwalbe, H., Trave, G., Trenner, J. M., Wohnert, J., Zweckstetter, M., and Kaptein, R., NMR in structural proteomics, **Acta Crystallogr D Biol Crystallogr**, 62, 1161-, 2006 (IF 1.401).
2. Achila, D., Banci, L., Bertini, I., Bunce, J., Ciofi-Baffoni, S., and Huffman, D. L., Structure of human Wilson protein domains 5 and 6 and their interplay with domain 4 and the copper chaperone HAH1 in copper uptake, **Proc.Natl.Acad.Sci.USA**, 103, 5729-5734, 2006 (IF 10.231).
3. Albeck, S., Alzari, P., Andreini, C., Banci, L., Berry, I. M., Bertini, I., Cambillau, C., Canard, B., Carter, L., Cohen, SX, Diprose, JM, Dym, O., Esnouf, RM, Felder, C., Ferron, F, Guillemot, F, Hamer, R, Ben Jelloul, M, Laskowski, RA, Laurent, T, Longhi, S, Lopez, R, Luchinat, C., Malet, H, Mochel, T, Morris, R. J., Moulinier, L, Oinn, T., Pajon, A, Peleg, Y., Perrakis, A., Poch, O., Prilusky, J., Rachedi, A., Ripp, R., Rosato, A., Silman, I., Stuard, D. I., Sussman, J. L., Thierry, J. C., Thompson, J. D., Thornton, J. M., Unger, T., Vaughan, B., Vranken, W., Watson, J. D., Whamond, G., and Herik, K., SPINE bioinformatics and data-management aspects of high-throughput structural biology, **Acta Crystallogr D Biol Crystallogr**, 62, 1184-1195, 2006 (IF 1.401).
4. Andreini, C., Banci, L., Bertini, I., and Rosato, A., Counting the zinc proteins encoded in the human genome, **J.Proteome Res.**, 5, 196-201, 2006 (IF 6.901).
5. Andreini, C., Banci, L., Bertini, I., and Rosato, A., Zinc through the three domains of life, **J.Proteome Res.**, 5, 3173-3178, 2006 (IF 6.901).
6. Arnesano, F., Banci, L., Bertini, I., Capozzi, F., Ciurli, S., Luchinat, C., Mangani, S., Ciofi-Baffoni, S., Rosato, A., Turano, P., and Viezzoli, M. S., An Italian contribution to structural genomics: understanding metalloproteins., **Coord.Chem.Rev.**, 250, 1419-1450, 2006 (IF 9.779).
7. Arnesano, F., Banci, L., and Piccioli, M., NMR structures of paramagnetic metalloproteins, **Q.Rev.Biophys.**, 38, 167-219, 4-5-2006 (IF 9.765).
8. Babini, E., Bertini, I., Capozzi, F., Chirivino, E., and Luchinat, C., A structural and dynamic characterization of the EF-hand protein CLSP, **Structure**, 14, 1029-1038, 2006 (IF 5.543).
9. Balayssac, S., Jiménez, B., and Piccioli, M., ¹³C Direct Detected COCO-TOCSY: a Tool for Sequence Specific Assignment and Structure Determination in Protonless NMR Experiments, **J.Magn.Reson.**, 182, 325-329, 2006 (IF 2.418).
10. Balayssac, S., Bertini, I., Luchinat, C., Parigi, G., and Piccioli, M., ¹³C direct detected NMR increases the detectability of residual dipolar couplings, **J.Am.Chem.Soc.**, 128, 15042-15043, 2006 (IF 7.419).
11. Balayssac, S., Jiménez, B., and Piccioli, M., Assignment Strategy for Fast Relaxing Signals: Complete Aminoacid Identification in Thulium Substituted Calbindin D_{9k}, **J.Biomol.NMR**, 34, 63-73, 2006 (IF 2.18).
12. Banci, L., Bertini, I., Cantini, F., Felli, I. C., Gonnelli, L., Hadjiliadis, N., Pierattelli, R., Rosato, A., and Voulgaris, P., The Atx1-Ccc2 complex is a metal-mediated protein-protein interaction, **Nat.Chem.Biol.**, 2, 367-368, 2006
13. Banci, L., Bertini, I., Ciofi-Baffoni, S., Kandias, N. G., Spyroulias, G. A., Su, X. C., Robinson, N. J., and Vanarotti, M., The delivery of copper for thylakoid import observed by NMR, **Proc.Natl.Acad.Sci.USA**, 103, 8325-, 2006 (IF 10.231).

14. Banci, L., Bertini, I., Cantini, F., Della Malva, N., Rosato, A., Herrmann, T., and Wüthrich, K., Solution structure and intermolecular interactions of the third metal-binding domain of ATP7A, the Menkes disease protein, **J.Biol.Chem.**, 281, 29141-29147, 2006 (IF 5.854).
15. Banci, L., Bertini, I., Cusack, S., deJon, R. N., Heinemann, U., Jones, E. Y., Kozielski, F., Maskos, K., Messerschmidt, A., Owens, R., Perrakis, A., Poterszman, A., Schneider, G., Siebold, C., Silman, I., Sixman, T., Stewart-Jones, G., Sussman, J. L., Thierry, J. C., and Moras, D., First steps towards effective methods in exploiting high-throughput technologies for the determination of human protein structures of high biomedical value., **Acta Crystallogr D Biol Crystallogr**, 62, 1208-1217, 2006 (IF 1.401).
16. Banci, L., Bertini, I., Ciofi-Baffoni, S., Su, X. C., Miras, R., Bal, N., Mintz, E., Catty, P., Shokes, J. E., and Scott, R. A., Structural basis for metal binding specificity: the N-terminal cadmium binding domain of the P1-type ATPase CadA, **J.Mol.Biol.**, 356, 638-650, 2006 (IF 5.542).
17. Banci, L., Bertini, I., Calderone, V., Ciofi-Baffoni, S., Mangani, S., Martinelli, M., Palumaa, P., and Wang, S., A hint for the function of human Sco1 from different structures, **Proc.Natl.Acad.Sci.USA**, 103, 8595-8600, 2006 (IF 10.231).
18. Banci, L., Bertini, I., Cantini, F., D'Amelio, N., and Gaggelli, E., Human SOD1 Before Harboring the Catalytic Metal: Solution Structure of Copper-Depleted, Disulfide-Reduced Form., **J.Biol.Chem.**, 281, 2333-2337, 2006 (IF 5.854).
19. Bermel, W., Bertini, I., Felli, I. C., Kümmerle, R., and Pierattelli, R., Novel ¹³C direct detection experiments, including extension to the third dimension, to perform the complete assignment of proteins, **J.Magn.Reson.**, 178, 56-64, 2006 (IF 2.418).
20. Bermel, W., Bertini, I., Felli, I. C., Piccioli, M., and Pierattelli, R., ¹³C-detected *protonless* NMR spectroscopy of proteins in solution, **Progress in Nuclear Magnetic Resonance Spectroscopy**, 48, 25-45, 2006 (IF 6.462).
21. Bermel, W., Bertini, I., Felli, I. C., Lee, Y.-M., Luchinat, C., and Pierattelli, R., Protonless NMR experiments for sequence-specific assignment of backbone nuclei in unfolded proteins, **J.Am.Chem.Soc.**, 128, 3918-3919, 2006 (IF 7.419).
22. Bertini, I., Grassi, E., Luchinat, C., Quattrone, A., and Saccenti, E., Monomorphism of human Cytochrome c, **Genomics**, 88, 669-672, 2006 (IF 3.181).
23. Bertini, I., Cavallaro, G., and Rosato, A., Cytochrome c: occurrence and functions, **Chem.Rev.**, 106, 90-115, 2006 (IF 20.869).
24. Bertini, I., Felli, I. C., Gonnelli, L., Pierattelli, R., Spyranzi, Z., and Spyroulias, G. A., Mapping protein-protein interaction by ¹³C'-detected heteronuclear NMR spectroscopy, **J.Biomol.NMR**, 36, 111-122, 2006 (IF 2.18).
25. Bertini, I., Calderone, V., Fragai, M., Luchinat, C., and Maletta, M., Snapshots of the reaction mechanism of Matrix metalloproteinases, **Angew.Chem.Int.Ed.**, 45, 7952-7955, 2006 (IF 9.596).
26. Caillet-Saguy, C., Delepierre, M., Lecroisey, A., Bertini, I., Piccioli, M., and Turano, P., Direct detected ¹³C NMR to investigate the Iron(III) hemophore HasA, **J.Am.Chem.Soc.**, 128, 150-158, 2006 (IF 7.419).
27. Calderone, V., Fragai, M., Luchinat, C., Nativi, C., Richichi, B., and Roelens, S., A high-affinity carbohydrate-containing inhibitor of matrix metalloproteinases, **ChemMedChem**, 1, 598-601, 2006

28. Cantini, F., Savino, S., Scarselli, M., Masignani, V., Pizza, M. G., Romagnoli, G., Swennen, E., Veggi, D., Banci, L., and Rappuoli, R., Solution structure of the immunodominant domain of protective antigen GNA1870 of *neisseria meningitidis*, **J.Biol.Chem.**, 281, 7220-7227, 2006 (IF 5.854).
29. Capozzi, F., Casadei, F., and Luchinat, C., EF-hand protein dynamics and evolution of calcium signal transduction: an NMR view, **J.Biol.Inorg.Chem.**, 11, 949-962, 2006 (IF 3.224).
30. Danielsson, J., Pierattelli, R., Banci, L., and Graslund, A., High resolution NMR studies of the zinc binding site of the amyloid b-peptide, **FEBS J.**, 274, 1-46, 2006
31. Fragai, M., Luchinat, C., and Parigi, G., "Four-dimensional" protein structures: examples from metalloproteins, **Acc.Chem.Res.**, 39, 909-917, 2006 (IF 13.141).
32. Harvie, D. R., Andreini, C., Cavallaro, G., Meng, W., Connolly, B. A., Yoshida, K., Fujita, Y., Harwood, C. R., Radford, D. S., Tottey, S., Cavet, J. S., and Robinson, N. J., Predicting metals sensed by ArsR-SmtB repressors: allosteric interference by a non-effector metal, **Mol.Microbiol.**, 59, 1341-1356, 2006 (IF 5.959).
33. Longinetti, M., Luchinat, C., Parigi, G., and Sgheri, L., Efficient determination of the most favored orientations of protein domains from paramagnetic NMR data, **Inv.Probl.**, 22, 1485-1502, 2006 (IF 1.541)).
34. Mannino, C., Nievo, M., Machetti, F., Papakyriakou, A., Fragai, M., and Guarna, A, Synthesis of bicyclic molecular scaffolds (BTAA) for the development of new matrix metalloproteinases inhibitors, **Bioorg Med Chem**, 14, 7392-7403, 2006 (IF 2.286).
35. Mustafi, S. M., Mukherjee, S., Chary, K. V. R., and Cavallaro, G., Structural basis for the observed differential magnetic anisotropic tensorial values in calcium binding proteins, **Proteins**, 65, 656-669, 2006 (IF 4.684).
36. Pintacuda, G., Giraud, N., Pierattelli, R., Böckmann, A., Bertini, I., and Emsley, L., Solid-state NMR of a paramagnetic protein: assignment and study of the human dimeric oxidized Cu(II), Zn(II) superoxide dismutase, **Angew.Chem.Int.Ed.**, 46, 1079-1082, 2006 (IF 9.596) .
37. Stola, M., Mangani, S., Musiani, F., Turano, P., Safarov, N., Zambelli, B., and Ciurli, S., The nickel site of *Bacillus pasteurii* UreE, a urease metallochaperone, as revealed by metal-binding studies and X-ray absorption spectroscopy, **Biochemistry**, 45, 6495-6509, 2006 (IF 3.848).
38. Tzakos, A., Naqvi, N., Comporozos, K., Pierattelli, R., Troganis, A., Theodorou, V., Husain, A., and Gerothanassis, I. P., The molecular basis for the selection mechanism of the cis/trans isomers of ACE inhibitor captopril, **Bioorg.Med.Chem.Lett.**, 16, 5084-5087, 2006 (IF 2.478).