

LUCIA BANCI

List of publications (updated September 2024)

1. **Querci L, Piccioli M, Ciofi-Baffoni S, Banci L.** Structural aspects of iron-sulfur protein biogenesis: An NMR view. **BBA - Molecular Cell Research**, 1871, 119786, **2024**, doi: 10.1016/j.bbamcr.2024.119786
2. **Torricella F, Vitali V, Banci L.** A systematic study on the effect of protonation and deuteration on electron spin Tm/T2 in a cellular context, **Phys. Chem. Chem. Phys.**, **2024**,26, 20246-20250, doi: 10.1039/d4cp00599f
3. **Grifagni D, Silva JM, Querci L, Lepoivre M, Vallières C, Louro RO, Banci L, Piccioli M, Golinelli-Cohen MP, Cantini F.** Biochemical and cellular characterization of the CISD3 protein: Molecular bases of cluster release and destabilizing effects of nitric oxide. **J Biol Chem.** **2024** Mar;300(3):105745. doi: 10.1016/j.jbc.2024.105745. Epub **2024** Feb 12
4. **Costantino A, Pham L.B.T, Barbieri L, Calderone V, Ben-Nissan G, Sharon M, Banci L, Luchinat E.** Controlling the incorporation of fluorinated amino acids in human cells and its structural impact, **Protein Science**, 33 (3), art. no. e4910, **2024**, doi: 10.1002/pro.4910
5. **Altincekic N, Jores N, Löhr F, Richter C, Ehrhardt C, Blommers MJJ, Berg H, Öztürk S, Gande SL, Linhard V, Orts J, Abi Saad MJ, Bütikofer M, Kaderli J, Karlsson BG, Brath U, Hedenström M, Gröbner G, Sauer UH, Perrakis A, Langer J, Banci L, Cantini F, Fragai M, Grifagni D, Barthel T, Wollenhaupt J, Weiss MS, Robertson A, Bax A, Sreeramulu S, Schwalbe H.** Targeting the Main Protease (Mpro, nsp5) by Growth of Fragment Scaffolds Exploiting Structure-Based Methodologies. **ACS Chem Biol.** **2024** Feb 16;19(2):563-574. doi: 10.1021/acschembio.3c00720. Epub **2024** Jan 17.
6. **Luchinat E, Barbieri L, Davis B, Brough PA, Pennestri M, Banci L.** Ligand-Based Competition Binding by Real-Time ¹⁹F NMR in Human Cells. **J Med Chem.** **2024** Jan 25;67(2):1115-1126. doi: 10.1021/acs.jmedchem.3c01600.
7. **Rosati M, Barbieri L, Hlavac M, Kratzwald S, Lichtenecker RJ, Konrat R, Luchinat E, Banci L.** Towards cost-effective side-chain isotope labelling of proteins expressed in human cells. **J Biomol NMR** doi.org/10.1007/s10858-024-00447-6, **2024**
8. **Monaci V., Gasperini G., Banci L., Micoli F., Cantini F.** ¹H, ¹³C and ¹⁵N assignment of self-complemented MrkA protein antigen from Klebsiella pneumonia, Biomolecular NMR Assignments, **Protein Science**, 33 (3), art. no. e4910, doi: 10.1007/s12104-024-10185-3, **2024**
9. **Lan B. T. Pham, A Costantino, L Barbieri, V Calderone, E Luchinat, L, Banci.** Direct expression of fluorinated proteins in human cells for ¹⁹F in-cell NMR spectroscopy. **J. Am. Chem. Soc.** 145, 2, 1389–1399, doi.org/10.1021/jacs.2c12086, **2023** (IF 16.383).
10. **Laukien FH, Banci L, Meier BH, Kessler H, Griesinger C.** Tony W. Keller (1937-2023). **Angew Chem Int Ed Engl.** **2023** Nov 23:e202316747. doi: 10.1002/anie.202316747. Epub ahead of print. (IF 16.6)
11. **Bargagna B, Matteucci S, Ciofi Baffoni S, Camponeschi F, Banci L.** Unraveling the mechanism of [4Fe-4S] cluster assembly on the N-terminal cluster binding site of NUBP1 DOI: 10.1002/pro.4625. **Protein Science.** **2023** (IF 6.725)
12. **Figiel M, Szubert F, Luchinat E, Bonarek P, Baranowska A, Wajda-Nikiel K, Wilamowski M, Miłek P, Dziedzicka-Wasylewska M, Banci L, Górecki A.** Zinc controls operator affinity of human

transcription factor YY1 by mediating dimerization via its N-terminal region. **Biochim Biophys Acta Gene Regul Mech.**, 1866, 194905. doi: 10.1016/j.bbagr.2022.194905, **2023**. (IF 6.304)

13. **Da Vela S., Saudino G., Lucarelli F., Banci L., Svergun D.I., Ciofi-Baffoni S.** Structural plasticity of NFU1 upon interaction with binding partners: insights into the mitochondrial [4Fe-4S] cluster pathway. DOI: 10.1016/j.jmb.2023.168154 **J Mol Biol.** **2023** (IF 6.151)
14. **Bargagna B, Banci L, Camponeschi F.** Understanding the Molecular Basis of the Multiple Mitochondrial Dysfunctions Syndrome 2: The Disease-Causing His96Arg Mutation of BOLA3. **Int. J. Mol. Sci.** **2023**, 24(14), 11734, doi.org/10.3390/ijms241411734 (IF 5.6)
15. **Vitali V, Torricella F, Massai L, Messori L, Banci L.** Enlarging the scenario of site directed 19F labeling for NMR spectroscopy of biomolecules. **Sci Rep.** **2023** Dec 12;13(1):22017. doi: 10.1038/s41598-023-49247-2. (IF 4.997)
16. **Luchinat E, Banci L.** In-cell NMR: recent progresses and future challenges, **Rend. Fis. Acc. Lincei**, **2023**, doi: 10.1007/s12210-023-01168-y (IF 1.810)
17. **Luchinat E, Cremonini M, Banci L.** Radio Signals from Live Cells: The Coming of Age of In-Cell Solution NMR, **Chem. Rev.** DOI: 10.1021/acs.chemrev.1c00790 **2022**. (IF 72.087).
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19. **Luchinat, E., Banci L.** In-cell NMR: From target structure and dynamics to drug screening. **Curr. Op. Struct. Biol.** 102374, DOI: 10.1016/j.sbi.2022.10237474, **2022**, (IF 7.786)
20. **Cantini F, Andreano E, Paciello I, Ghini V, Berti F, Rappuoli R Banci L.** 2D NMR Analysis as a Sensitive Tool for Evaluating the Higher-Order Structural Integrity of Monoclonal Antibody against COVID-19. **Pharmaceutics** , 14, 1981, doi.org/10.3390/pharmaceutics14101981, **2022**, (IF 6.525)
21. **Camponeschi F, Ciofi-Baffoni S, Calderone V, Banci L.** Molecular Basis of Rare Diseases Associated, to the Maturation of Mitochondrial [4Fe-4S]-Containing Proteins, **Biomolecules**, 12, 1009-1037 doi.org/10.3390/biom12071009, **2022** (IF 6.064)
22. **Torricella F, L Barbieri, V Bazzurro, A Diaspro, L Banci;** Protein delivery to living cells by thermal stimulation for biophysical investigation. **Scientific Reports** 12, 1-10 DOI 10.1038/s41598-022-21103-9 **2022** (IF. 4.996)
23. **Camponeschi F., Piccioli M., Banci L.** The Intriguing mitoNEET: Functional and Spectroscopic Properties of a Unique [2Fe-2S] Cluster Coordination Geometry, **Molecules**, 27, 8218 , **2022** (IF 4.927)
24. **Camponeschi, F. and Banci, L,** Metal trafficking in the cell: Combining atomic resolution with cellular dimension. **FEBS Lett.** 1873-3468.14524 doi.org/10.1002/ **2022**,. (IF 4.124)
25. **Matteucci S, Camponeschi F, Clémancey M, Ciofi-Baffoni S, Blondin G, Banci L.** In-cellulo Mössbauer and EPR studies bring new evidences to the long-standing debate on the iron-sulfur cluster binding in human anamorsin. **ANGEW CHEM INT EDIT** doi: 10.1002/anie.202102910, **2021**,. (IF 12.959)
26. **Luchinat E, Barbieri L, Cremonini M, Pennestri M, Nocentini A, Supuran CT, Banci L.** Determination of intracellular protein-ligand binding affinity by competition binding in-cell NMR. **Acta Crystallogr D Struct Biol.**, 77, 1270-1281. doi: 10.1107/S2059798321009037 **2021** (IF 7.652)

27. **Albuquerque-Gonzalez,B, Bernabé-Garcia M, Bernabé-Garcia A, Ruiz-Sanz J, Lopez-Calderon FF, Gonnelli L, Banci L, P, Peña-García J, Luque I, Nicolas FJ, Cayuela-Fuentes ML, Luchinat E, Perez-Sanchez H, Monto-Garcia S, Conesa-Zamora.** The FDA-Approved Antiviral Raltegravir Inhibits Fascin1-Dependent Invasion of Colorectal Tumor Cells In Vitro and In Vivo, **Cancer**, 13, 861; doi.org/10.3390/cancers13040861 **2021** (IF 6.639)
28. **Grifagni D, Calderone V, Giuntini S, Cantini F, Fragai M, Banci L.** SARS-CoV-2 Mpro inhibition by a zinc ion: structural features and hints for drug design. **Chem Commun (Camb)**. Aug 10;57(64):7910-7913. doi: 10.1039/d1cc02956h. **2021** (IF 6.222)
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30. **Saudino G, Suraci D, Nasta V, Ciofi-Baffoni S, Banci L.** Molecular Basis of Multiple Mitochondrial Dysfunctions Syndrome 2 Caused by CYS59TYR BOLA3 Mutation. **Int J Mol Sci.** May 3;22(9):4848. doi: 10.3390/ijms22094848 **2021** (IF 5.924)
31. **Suraci D, Saudino G, Nasta V, Ciofi baffoni S, Banci L** ISCA1 orchestrates ISCA2 and NFU1 in the maturation of human mitochondrial [4Fe-4S] proteins, doi.org/10.1016 /j.jmb.2021.16692 **J Mol Biol**, 4, **2021** (IF 5.469)
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34. **Prusty NR, Camponeschi F, Ciofi Baffoni S, Banci L.** The human YAE1-ORAOV1 complex of the cytosolic iron-sulfur protein assembly machinery binds a [4Fe-4S] cluster, **InorgChim Acta**, , 518, 1, doi.org/10.1016/j.ica.2021.120252 **2021** (IF 2.545)
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36. **Gallo A, Tsika AC, Fourkiotis NK, Cantini F, Banci L, Sreeramulu S, Schwalbe H, Spyroulias GA.** 1H,13C and 15N chemical shift assignments of the SUD domains of SARS-CoV-2 non-structural protein 3c: "the N-terminal domain-SUD-N". **Biomolecular NMR Assignments**, 1, 85-89 **2021**. doi: 10.1007/s12104-020-09987 (IF 0.746)
37. **Gallo A, Tsika AC, Fourkiotis NK, Cantini F, Banci L, Sreeramulu S, Schwalbe H, Spyroulias GA** 1H,13C and 15N chemical shift assignments of the SUD domains of SARS-CoV-2 non-structural protein 3c: "The SUD-M and SUD-C domains", **Biomolecular NMR Assignments.**, 1, 165-171 **2021**. doi: 10.1007/s12104-020-10000-9 (IF 0.677)
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39. **Camponeschi F, Prusty NR, Heider SAE, Ciofi-Baffoni S, Banci L.** GLRX3 Acts as a [2Fe-2S] Cluster Chaperone in the Cytosolic Iron-Sulfur Assembly Machinery Transferring [2Fe-2S] Clusters to NUBP1. **J Am Chem Soc.**;142, 10794-10805. doi: 10.1021/jacs.0c02266. **2020** (IF 14.612)

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