

LUCIA BANCI

List of publications (updated October 2023)

1. **Lan B. T. Pham, A Costantino, L Barbieri, V Calderone, E Luchinat, L, Banci.** Direct expression of fluorinated proteins in human cells for ^{19}F in-cell NMR spectroscopy. *J. Am. Chem. Soc.* 145, 2, 1389–1399, doi.org/10.1021/jacs.2c12086, **2023** (IF 16.383).
2. **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)
3. **Figiel M, Szubert F, Luchinat E, Bonarek P, Baranowska A, Wajda-Nikiel K, Wilamowski M, Milek 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)
4. **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)
5. **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)
6. **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)
7. **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).
8. **Saudino G, Ciofi-Baffoni S, Banci L.** Protein-Interaction Affinity Gradient Drives [4Fe-4S] Cluster Insertion in Human Lipoyl Synthase.. *J Am Chem Soc* doi: 10.1021/jacs.1c13626. **2022**, 144, 5713-5717. (IF 16.383).
9. **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)
10. **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)
11. **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)
12. **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)
13. **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)

14. **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)
15. **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)
16. **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)
17. **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)
18. **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)
19. **Cafaro, A, Barillari, G, Moretti, S, Palladino, C, Tripiciano, A; Falchi, M, Picconi, O, Cossut, MRP, Campagna, M, Arancio, A,;Sgadari, C, Andreini, C, Banci, L;Monini, P, Ensoli, B,** HIV-1 Tat Protein Enters Dysfunctional Endothelial Cells via Integrins and Renders Them Permissive to Virus Replication, *Int J Mol Sci.*, 22, 317, doi:10.3390/ijms22010317 **2021** (IF 5.924)
20. **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)
21. **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)
22. **Torricella F, Bonucci A, Polykretis P, Cencetti F, Banci L.** Rapid protein delivery to living cells for biomolecular investigation. *Biochem Biophys Res Commun.* Sep 17;570:82-88. doi: 10.1016/j.bbrc.2021.07.006. **2021** (IF 3.575)
23. **Luchinat E, Barbieri L, Cremonini M, Banci L.** Protein in-cell NMR spectroscopy at 1.2 GHz. *J Biomol NMR* 75(2-3):97-107., doi: 10.1007/s10858-021-00358-w **2021** (IF 2.835)
24. **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)
25. **Wienk, H., Banci, L., Daenke, S., Pereiro, E., Schwalbe, H., Stuart, D. I., Weiss, M. S., Perrakis, A.** iNEXT-Discovery and Instruct-ERIC: Integrating High-End Services for Translational Research in Structural Biology. *J. Vis. Exp.*177, e63435, **2021**, (IF 1.163)
26. **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)

27. **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)
28. **Camponeschi F., Gallo A, Piccioli M, Banci L.** The long-standing relationship between Paramagnetic NMR and Iron-Sulfur proteins: the mitoNEET example. An old method for new stories or the other way around? doi: 10.5194/mr-2021-2 *Magnetic Resonance.*, 2, 203–221, **2021**
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31. **Polykretis P., Luchinat E., Boscaro F. and Banci L.,** Methylglyoxal interaction with superoxide dismutase 1. *Redox biology*, 2020, 30, 101421. (IF: 9.986)
32. **Luchinat E, Barbieri L, Campbell T.F, Banci L,** Real-Time Quantitative In-Cell NMR: Ligand Binding and Protein Oxidation Monitored in Human Cells Using Multivariate Curve Resolution, *Anal. Chem.* 2020, 92, 14, 9997–10006, doi: 10.1021/acs.analchem.0c01677 (IF 6.785)
33. **Luchinat E., Barbieri L., Cremonini M., Nocentini A., Supuran C.T., and Banci L.** Intracellular binding/unbinding kinetics of approved drugs to carbonic anhydrase II observed by in-cell NMR. *ACS Chem. Biol.* 2020 Sept doi.org/10.1021/acscchembio.0c00590 (IF: 4.434)
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35. **Maione V, Grifagni D, Torricella F, Cantini F, Banci L.,** CIAO3 protein forms a stable ternary complex with two key players of the human cytosolic iron-sulfur cluster assembly machinery. *J Biol Inorg Chem.* 2020 May;25(3):501-508. doi: 10.1007/s00775-020-01778-z. (IF 3.632)
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39. **Polykretis, P., Luchinat, E., Bonucci, A., Giachetti, A., Graewert, M. A., Svergun, D. I., & Banci, L.** Conformational characterization of full-length X-chromosome-linked inhibitor of apoptosis protein (XIAP) through an integrated approach. *IUCrJ*, 6(5), **2019**

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41. **Gourdoupis S, Nasta V, Ciofi-Baffoni S, Banci L, Calderone V.,** In-house high-energy-remote SAD phasing using the magic triangle: how to tackle the P1 low symmetry using multiple orientations of the same crystal of human IBA57 to increase the multiplicity. *Acta Crystallogr D Struct Biol.* 2019 Mar 1;75(Pt 3):317-324. doi: 10.1107/S2059798319000214. Epub Feb 28, **2019** (IF 3.099)
42. **Varone A, Mariggìo S, Patheja M, Maione V, Varriale A, Vessichelli M, Spano D, Formiggini F, Lo Monte M, Brancati N, Frucci M, Del Vecchio P, D'Auria S, Flagiello A, Iannuzzi C, Luini A, Pucci P, Banci L, Valente C, Corda D.** A signalling cascade involving receptor-activated phospholipase A2, glycerophosphoinositol 4-phosphate, Shp1 and Src in the activation of cell motility. *Cell Commun Signal.* Mar 1;17(1):20. doi: 10.1186/s12964-019-0329-3. **2019** (IF 5.324)
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44. **Nasta V, Suraci D, Gourdoupis S, Ciofi-Baffoni S, Banci L.** A pathway for assembling [4Fe-4S]₂+ clusters in mitochondrial iron-sulfur protein biogenesis. *FEBS J.* 2019 Nov 14. doi: 10.1111/febs.15140 (IF 4.739)
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48. **Luchinat, E., Banci, L.** New structural and functional insights from in-cell NMR. *Emerging Topics in Life Sciences*, 2, 29-38. **2018** (IF: n.d.)
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