

List of publications
(updated January 2021)

1. **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.* 2020;142, 10794-10805. doi: 10.1021/jacs.0c02266. (IF 14.612)
2. **Luchinat E., Barbieri L., Cremonini M., Nocentini A., Supuran C.T., Banci L.** Drug screening in human cells by NMR allows early assessment of drug potency, *Angew. Chem. Int. Ed.* 2020, 59, 6535–6539 doi.org/10.1002/anie.201913436 (IF 12.959)
3. **Polykretis P., Luchinat E., Boscaro F. and Banci L.,** Methylglyoxal interaction with superoxide dismutase 1. *Redox biology*, 2020, 30, 101421. (IF: 9.986)
4. **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)
5. **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)
6. **Bonucci A, Murrall MG, Banci L, Pierattelli R** A combined NMR and EPR investigation on the effect of the disordered RGG regions in the structure and the activity of the RRM domain of FUS. *Sci Rep.* 2020, 10, 20956. doi: 10.1038/s41598-020-77899-x (IF 3.998)
7. **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)
8. **Sreeramulu S.; Richter C., Kuehn T., Azzaoui K.; Blommers M.J.J.; Del Conte R.; Fragai M.; Trieloff N.; Schmieder P.; Nazare M.; Specker E.; Ivanov V.; Oschkinat H.; Banci L.; Schwalbe H.,** NMR quality control of fragment libraries for screening, Doi: 10.1007/s10858-020-00327-9, *J Biomol NMR*, (IF 2.634)
9. **Cantini, F, Banci, L. N. Altincekic, J. K. Bains, K. Dhamotharan, C. Fuks, B. Fürtig, S. L. Gande, B. Hargittay, M. Hengesbach, M. T. Hutchison, S. M. Korn, N. Kubatova, F. Kutz, V. Linhard, F. Löhr, N. Meiser, D. J. Pyper, N. S. Qureshi, C. Richter, K. Saxena, A. Schlundt, H. Schwalbe, S. Sreeramulu, J.-N. Tants, A. Wacker, J. E. Weigand, J. Wöhnert, A. C. Tsika, N. K. Fourkiotis, G. A. Spyroulias,** 1H, 13C, and 15N backbone chemical shift assignments of the apo and the ADP-ribose bound forms of the macrodomain of SARS-CoV-2 non-structural protein 3b. *Biomol NMR Assign.* 2020; 14(2): 339–346. doi:10.1007/s12104-020-09973-4 (IF 0.677)
10. **Camponeschi F., Banci L.** Metal cofactors trafficking and assembly in the cell: a molecular view" *Pure and Applied Chemistry*, Volume 91, 2019, 231-245(IF. 2.350)
11. **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

12. **Morris C, Andreetto P, Banci L, Bonvin A, Chojnowski G, del Cano L, Carazo JM, Conesa P, Daenke Damaskos S, Giachetti A, Haleyf N, Hekkelmang ML, Heuser P, Joosteng RP, Kouřilil D, Křenek A, Kulhanek T, Lamzin V, Nadzirinj N, Perrakisg A, Rosato A, Sanderson F, Segura J, Schaarschmidt J, Sobolev J et al.** West-Life: A Virtual Research Environment for structural biology, *J Struc Biol X*, 1, 100006, **2019** (IF 3.02)
13. **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)
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16. **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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18. **Polykretis P, Cencetti F, Donati C, Luchinat E, Banci L.** Cadmium effects on superoxide dismutase 1 in human cells revealed by NMR. *Redox Biol.*; 21:101102. **2019** (IF 7.126)
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20. **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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