

CERM Publications
(April 2017)

1. **Liu, G., Levien, M., Karschin, N., Parigi, G., Luchinat, C., and Bennati, M.** One-thousand fold enhancement of high field liquid nuclear-magnetic resonance signals at room temperature. **Nat.Chem.** 2017. doi:10.1038/nchem.2723 (IF 27.893)
2. **Brancaccio D, Gallo A, Piccioli M, Novellino E, Ciofi-Baffoni S and Banci L.** [4Fe-4S] Cluster Assembly in Mitochondria and Its Impairment by Copper. **J Am Chem Soc** 139: 719-730, **2017**.(IF 13.038)
3. **Andralojc W, Hiruma Y, Liu W-M, Ravera E, Nojiri M, Parigi G, Luchinat C and Ubbink M.** Identification of productive and futile encounters in an electron transfer protein complex. **Proc Natl Acad Sci USA** 114: E1840-E1847, **2017**.(IF 9.423)
4. **Pozzi C, Ciambellotti S, Bernacchioni C, Di Pisa F, Mangani S and Turano P.** Chemistry at the protein-mineral interface in L-ferritin assists the assembly of a functional (μ^3 -oxo)tris [(μ^2 -peroxo)] triiron(III) cluster. **Proc Natl Acad Sci USA** 114: 2580-2585, **2017**.(IF 9.423)
5. **Moreno-Beltran B, Guerra-Castellano A, Diaz-Quintana A, Del Conte R, Garcia-Maurino S, Diaz-Moreno S, Gonzalez-Arzola K, Santos-Ocana C, Velazquez-Campoy A, De la Rosa MA, Turano P and Diaz-Moreno I.** Structural basis of mitochondrial dysfunction in response to cytochrome c phosphorylation at tyrosine 48. **Proc Natl Acad Sci USA** 114: E3041-E3050, **2017**.(IF 9.423)
6. **Hart C, Vignoli A, Tenori L, Uy G, Ta Van T, Adebamowo C, Hossain S, Biganzoli L, Risi E, Love R, Luchinat C and Di Leo A.** Serum metabolomic profiles identify ER-positive early breast cancer patients at increased risk of disease recurrence in a multicentre population. **Clin Cancer Res** doi 10.1158/1078-0432.CCR-16-1153: **2017**.(IF 8.738)
7. **Kay KL, Zhou L, Tenori L, Bradley JM, Singleton C, Kihlken MA, Ciofi-Baffoni S, Le Brun NE** Kinetic analysis of copper transfer from a chaperone to its target protein mediated by complex formation, **Chem Commun (Camb)**. 53, 1397-1400, **2017**, (IF 6.567)
8. **Takis P, Tenori L, Ravera E and Luchinat C.** Gelified biofluids for HRMAS 1H NMR analysis: the case of urine. **Anal Chem** doi: 10.102/acs.analchem.6b04318: **2017**.(IF 5.886)
9. **Bernacchioni C, Ghini V, Cencetti F, Japtok L, Donati C, Bruni P and Turano P.** NMR metabolomics highlights sphingosine kinase-1 as a new molecular switch in the orchestration of aberrant metabolic phenotype in cancer cells. **Mol Oncol** Epub ahead of print: **2017**.(IF 5.331)
10. **Banci L and Luchinat E.** In cell NMR - a topical review. **IUCrJ** 4: 108-118, **2017**.(IF 5.316)

11. **van Zundert G, Trellet M, Schaarschmidt J, Kurkcuoglu Z, David M, Verlato M, Rosato A and Bonvin AMJJ.** The DisVis and powerFit web servers: explorative and integrative modeling of biomolecular complexes. *J Mol Biol* 429: 399-407, **2017**.(IF 4.517)
12. **Andreini C, Rosato A and Banci L.** The relationship between environmental dioxygen and iron-sulfur proteins explored at the genome level. *Plos ONE* 12: e0171279, **2017**.(IF 3.54)
13. **Ghini V, Di Nunzio M, Tenori L, Valli V, Danesi F, Capozzi F, Luchinat C and Bordoni A.** Evidence of a DHA signature in the lipidome and metabolome of human hepatocytes. *Int J Mol Sci* 18: E359, **2017**.(IF 3.257)
14. **Nogueira OM, Hosek T, Calçada EO, Castiglia F, Massimi P, Banks L, Felli IC and Pierattelli R.** Monitoring HPV-16 E7phosphorylation events. *Virology* 503: 70-75, **2017**.(IF 3.200)
15. **Calderone V, Fragai M, Gallo G and Luchinat C.** Solving the crystal structure of human calcium-free S100Z: the siege and conquer of one of the last S100 family strongholds. *J Biol Inorg Chem* doi: 10.1007/s00775-017-1437-4: **2017**.(IF 2.495)

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1. Baronti,L.; Hosek,T.; Gil-Caballero, S.; Raveh-Amit, H.; Calçada, E.; Ayala,I.; Dinnyés,A.; Felli,I.; Pierattelli,R., Brutscher,B.; A Fragment-Based NMR Study of the Conformational Dynamics of the bHLH Transcription Factor Ascl1 **Biophysical Journal**, in press (IF 3.632)
2. Feifel, S., Stieger, K., Kapp, A., Weber, D., Allegrozzi, M., Piccioli, M., Turano, P., and Lisdat, F. Insights into interprotein electron transfer of human cytochrome c variants arranged in multilayer architectures by means of an artificial silica nanoparticle matrix. **Omega ACS** . 2017. IN Press