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| **PERSONAL INFORMATION** | Lucia Banci |
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|   | CERM, University of Florence, via L. Sacconi, 650019 Sesto Fiorentino (FI), Italy |
| +39 055 4574273  +39 3355335566  |
| banci@cerm.unifi.it  |
| www.cerm.unifi.it/about-us/people/lucia-banci   |
| *Sex* F | *Date of birth* 20/05/1954 | *Nationality* Italian  |

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| **WORK EXPERIENCE** |   |

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| 1999 - present | **Full Professor of Chemistry** |
| Department of Chemistry, University of Florence, Italy |
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| 2021 - present | **Director of Magnetic Resonance Center (CERM)** |
| University of Florence, Italy |
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| 2019 - present | **Coordinator of the International Doctorate in Structural Biology** |
| University of Florence, Italy |
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| 2011 - 2017 | **Director of Magnetic Resonance Center (CERM)** |
| University of Florence, Italy |
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| 1987 - 1999 | **Associate Professor of Chemistry** |
| University of Florence, Italy (Faculty of Pharmacy, Faculty of Science) |
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| 983 - 1987 | **Tenured researcher** |
| University of Florence, Italy (Faculty of Science) |
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| **EDUCATION AND TRAINING** |   |

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| 1978-1983 | Postdoctorate |  |
| University of Florence (Italy) |
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| July 1978 | Degree in Chemistry |
|  | University of Florence, 110/110 cum laude |

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| **PERSONAL SKILLS** |   |

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| Mother tongue(s) | Italian |
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| Other language(s) | English |

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| **ADDITIONAL INFORMATION** |   |

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| Summary of scientific activity | Lucia Banci has a high international reputation for her original contributions and breakthroughs in Structural Biology and in biological NMR. She is recognized as world class leader in the characterization of functional processes in a cellular context with atomic resolution. She has addressed and unraveled many aspects of the biology of metal ions in biological systems, from their homeostasis processes to the trafficking and metal incoroporation in the final receiving proteins. She developed a molecular systems biology approach which integrates information on structural, dynamical, and interaction features of the biomolecules with the thermodynamic properties of the processes, so to have a unified picture of the pathways responsible of metal ion trafficking, with particular focus on copper transport and on the biogenesis of iron-sulfur cluster proteins.The innovative in cell NMR approach developed by Lucia Banci and her group allows for the detection of human individual proteins in living human cells with atomic level resolution. She also exploited the extensive knowledge of structural biology approaches through NMR expertise to develop an absolutely innovative approach to vaccine design, based on the knowledge of the structure of the pathogen antigens and of the interaction pattern with antibodies, to design structure-based vaccines. |
| Activities in Research Organizations | Thanks to the high-level instrumentation of CERM/CIRMMP and the skills of its researchers and technical staff, the infrastructure has been providing access to its instrumentation to external users, both academic and industrial, since 1994. Access has been and is supplied both at international, European and extra-European level, as well as at national level. The scientific fields range from structural biology, to the development of new drugs and vaccines, to the implementation of new experimental methodologies, from the analysis of new materials to the analysis of metabolic profiles through a metabolomic approach. Users from industry constitute a significant group of the infrastructure users. A significant example is given by the collaboration with Novartis Vaccines, now GSK, that, with the highly innovative approach of Structural Vaccinology, has allowed to optimize and validate the vaccine against Meningococcus B.Since 2014 Lucia Banci is the Italian member of ESFRI's Strategic Working Group (SWG) Health & Food, which has the task of developing the Roadmap for Research Infrastructures in Europe and monitoring the existing ones. The work carried out by the various SWGs and the preparation of the European Roadmap on Research Infrastructures is also dedicated to the analysis of the general situation of research infrastructures in Europe and to the identification of any shortcomings or limitations. Within ESFRI Lucia Banci also contributed to the development of the definition of Key Performing Indicators (KPI) as the Italian member of the dedicated SWG.The set of KPIs defined at European level constitutes an important tool for monitoring and quantifying the development of Research Infrastructures also at the national level.Finally, Lucia Banci has been a member (2013-2015) of the Scientific Committee for “Life, Environment and Geo Sciences” of Science Europe as a representative of the CNR. Science Europe is an association that brings together the main public research organizations operating in Europe.Lucia Banci's management work has also led to significant contributions to the technological transfer of the research results of the bodies which she directs or to whose management she contributes. She has set up and organized a Tuscany Infrastructure, Bio-Enable, a distributed infrastructure that offers services to companies, with particular attention to small and medium-sized enterprises. Bio-Enable involves, in addition to CERM as leader, the Institute of Neuroscience of CNR, the University of Siena and the Scuola Superiore Sant’Anna.During her career she has been Coordinator or Principal Investigator of numerous projects funded under the framework programs of the European Commission, as well as competitive national, regional and private institution projects. As an example, among those funded under Horizon 2020, there are iNEXT-Discovery and EOSC-Life, the MEDINTECH project of the Italian National Cluster for Life Sciences "ALISEI" and the coordination of the Regional Research Infrastructure project Bio-Enable.Lucia Banci has extensive experience in evaluating research programs and projects at national and international level. |

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| Publications | More than 430 publications on peer reviewed journals. |
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| Citations (Google Scholar) | *h*-index 86citations 26,334 |
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| Patents | Use of matrix metalloproteinases, mutated and not mutated, for the preparation of pharmaceutical compositions, and mutated metalloproteinases with increased stability - **WO 2007020223 A1**Modified meningococcal fhbp polypeptides - **WO 2011051893 A1** |
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| Projects | Recipient of grants from Italian and Regional agencies, and from the European Commission Framework Programs (from FP4 through H2020) and from private institutions.Coordinator or Principal Investigator of projects funded at European, National and regional levels. Among the most recent there are:Head of the Italian Centre of the ESFRI Landmark INSTRUCT-ERIC, member of the Council and of the Executive Committee.Partner of the EC H2020 projects: iNEXT Discovery Instruct-ULTRA, EOSC-Life.Partner in the MEDINTECH project of the Italian National Cluster for Life Sciences “ALISEI”. Coordinator of the Regional Research Infrastructure project “BioEnable”. |
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| Conferences organized | Member of the Organizing Committee of the "Workshop on Zinc Enzyme", San Miniato, 1985; Workshop on "Genetic and Physico Chemical Approaches for the Analysis of Biological Catalysts", Florence 1986; scientific secretary of the 2nd "Chianti Workshop on Magnetic Resonance: Electron and Nuclear Relaxation in Biological and Model Systems", San Miniato, 1987; scientific secretary of the 3rd "Chianti Workshop on Magnetic Resonance: Nuclear and Electron Relaxation", San Miniato, 1989; organizer of the Conference “Frontiers of the Chemistry of Metal Ions approaching the Year 2000”, Florence, 1990; organizer of the "Workshop on Structure and Function of Mutated Proteins", Florence, 1991; organizer of the 5th "Chianti workshop on Magnetic Resonance", San Miniato, 1993; chair of the Organizing Committee of the EUROBIC II Conference, Florence, 1994; director of the NATO Advance Workshop on “Molecular Modeling and Dynamics of Biological Molecules Containing Metal Ions”, San Miniato, 1997; organizer of the 7th "Chianti workshop on Magnetic Resonance ", San Miniato, 1997;. organizer of the European Training Course on “Advance Computing in NMR Spectroscopy”, Florence, 1997, 1999; 2001, Executive manager “XIX International Conference on Magnetic Resonance in Biological Systems”, Florence, 2000, member of the Organizing Committee of the 10th ICBIC, Florence, 2001, member of the Organizing Committee of the 10th “Chianti workshop on Magnetic Resonance” San Miniato, 2003, Organizer of the European Training Course on Advanced computing in NMR spectroscopy, Florence, 2003, member of the Organizing Committee of the “XI Chianti workshop on Magnetic Resonance” Vallombrosa, 2007, member of the Organizing Committee of the “NMR to Lay the Bricks for Molecular Systems Biology, Montecatini Terme, 2008, Co-chair of the Joint EUROMAR 2010 and 17th ISMAR Conference, Florence, 2010, member of the Organizing Committee of the 12th Chianti/INSTRUCT workshop on BioNMR, Montecatini Terme, 2012, member of the Organizing Committee of the “EMBO workshop on Magnetic Resonance for Cellular Structural Biology, Principina Terra, 2014, member of the Organizing Committee of the 14th Chianti workshop on BioNMR, Principina Terra, 2016. Member of the Scientific Committee of several international conferences, among which of EUROMAR 2009, EUROMAR 2011, ICMRBS 2016, ISMAR 2017, INSTRUCT Biennial Conference 2015 and 2017 |
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| Conferences and schools attended as invited speaker | Invited to present lectures, often plenary and keynote lectures to all major international confereces in her research fields. Complete list attached |
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| Seminars | Invited to present seminars at several international institutions. List attached. |
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| Honours and awards | 2020 Elected Honorary member of the National Magnetic Resonance Society of India (NMRS)2018 Premio Scienza Madre, International Award assigned by Istituto Lazzaro Spallanzani 2017 “Instruct Bertini Award” for Integrated Structural Biology2015 «Fiorino d’Oro della Città di Firenze» Gold Medal of the City of Florence2015 IUPAC Award «Distingushed Woman in Chemistry»2015 Elected ISMAR Fellow2014 Elected member of Academia Europaea2013 Appointed Member of AcademiaNet 2012 Elected Member of EMBO (European Molecular Biology Organization) 2011 Listed among the 45 Top Italian Female Scientists 2011 Director of the Magnetic Resonance Center (CERM) of the University of Florence2009 Executive Committee of ISGO (International Structural Genomics Organization (2009-2014) 1998 Premio Federchimica – “Per un Futuro Intelligente” 1994 “Raffaele Nasini” Medal of the Inorganic Division of the Italian Chemical Society |
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| Committee Services | 2022 Chair of the Strategic Working Group “Health and Food” of ESFRI2018 Member of the ESFRI Working Group on Monitoring of Research Infrastructures Performance (2018-20192014 Appointed Member of the EMBL and EMBC Councils 2014 Member of the Strategic Working Group “Health and Food” of ESFRI2013 Member of the ISGO (International Structural Genomics Organization) Executive Committee2013 Member of the Scientific Committee for “Life, Environment and Geo Sciences” of Science Europe (2013-2015)2011 Member of the ISMAR Council (2011-2014 and 2014-2017)2009 Member of the Executive Committee of EUROMAR (2009-2014) 2008 Chair of the ICMRBS Council (2008-2010)2008 Member of the HFSP (Human Frontier Science Program) Review Committee2006 Scientific Secretary of the Society of Biological Inorganic Chemistry (1999-2006)2005 Societa’ Chimica Italiana – Chair of the Chemistry of Biological Systems Division 2004 Joint Gold Medal of GIDRM (Italian Group on Magnetic Resonance) and GIRM-SCI (Interdivisional Group on Magnetic Resonance of the Italian Chemical Society. 2000 Member of the ICMRBS Council |
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| Membership | Honorary member of the National Magnetic Resonance Society of IndiaSocieta’ Chimica ItalianaAmpere SocietyISMAR ISGO - International Structural Genomic Chair of the ICMRBS Council (2008-2010)Scientific Secretary of the Society of Biological Inorganic Chemistry (1999-2006) |
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| Journal services | At present member of the Editorial Board of Scientific Reports and of Scientific Data and of the Editorial Advisory Board of ACS Bio & Med Chem Au.In the past member of the Editorial Board of: Journal of Magnetic Resonance, Biomolecular NMR Assignments, JBIC, Journal of Structural Proteomics, and of EurJIC (European Journal of Inorganic Chemistry). Referee of many international journals, among which PNAS (Proceedings of the National Academy of Sciences), JACS (Journal of the American Chemical Society), EMBO Journal, Nature Structural & Molecular Biology, Nature Chemical Biology, the Journal of Biological Chemistry. |
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| Evaluation and Advisor Services | Member of evaluation committees for many Funding Institutions at the international level: Member of the HFSP (Human Frontier Science Program) Review Committee (2008-2012), of ERC Evaluation Panel, member of the international assessment committee Building Blocks of Life of the Netherlands Organization for Scientific Research (NOW) and ad hoc reviewer for EC (Cooperation and Marie Curie types of projects), DFG (German Research Foundation), EMBO (European Molecular Biology Organization), NIH (National Institutes of Health), NSF (National Science Foundation), AERES (French Evaluation Agency for Research and Higher Education), as well as of several funding applications for many European and International Countries. Member of the Chemistry Committee for the Evaluation of the Italian Research. At the national level she has been a member of ministerial commissions for the evaluation of research projects under the "Premiali" program of the FOE, she has been a member of the MIUR Evaluation Commission - PON RI 2014-2020 "Infrastructure enhancement". She was a member of ANVUR Chemistry GEV 03, for the VQR 2004-2010. At the local level she is a member of the "Research" commission of the Cassa di Risparmio di Firenze Foundation.In the past member of Advisor Board of several European institutions. External member of the PhD jury for a number of European Universities |

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| Relevant Publications | 1. Luchinat E, Cremonini M, Banci L. Radio Signals from Live Cells: The Coming of Age of In-Cell Solution NMR, *Chemical Reviews*, DOI: 10.1021/acs.chemrev. 1c00790. **2022**
2. Matteucci S, Camponeschi F, Clémancey M, Ciofi-Baffoni S, Blondin G, Banci L. In-cellulo Mӧssbauer and EPR studies bring new evidences to the long-standing debate on the iron-sulfur cluster binding in human anamorsin*. Angew Chem Int Ed* 60: 14841–14845, **2021**
3. 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, **2020**
4. 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.* 59: 6535 –6539, **2020**
5. Luchinat E, Banci L. In-Cell NMR in Human Cells: Direct Protein Expression Allows Structural Studies of Protein Folding and Maturation*. Acc Chem Res* 51, 1550-1557, **2018**
6. Camponeschi, F., Ciofi-Baffoni, S., Banci, L. Anamorsin/Ndor1 Complex Reduces [2Fe-2S]-MitoNEET via a Transient Protein-Protein Interaction, *J Am Chem Soc*, 139: 9479–9482, **2017**
7. Barbieri L, Luchinat E and Banci L Characterization of proteins by in-cell NMR spectroscopy in cultured mammalian cells. *Nature Protocols* 11: 1101-1111, **2016**
8. Banci L, Ciofi-Baffoni S, Gajda K, Muzzioli R, Peruzzini R and Winkelmann J. N-terminal domains mediate [2Fe-2S] cluster transfer from glutaredoxin-3 to anamorsin. *Nat Chem Biol* 11: 772-778, **2015**.
9. Banci L, Camponeschi F, Ciofi-Baffoni S and Muzzioli R. Elucidating the molecular function of human BOLA2 in GRX3-Dependent anamorsin maturation pathway. *J Am Chem Soc* 137: 16133-16134, **2015**.
10. Banci L, Brancaccio D, Ciofi-Baffoni S, Del Conte R, Gadepalli R, Mikolajczyk M, Neri S, Piccioli M and Winkelmann J. [2Fe-2S] cluster transfer in iron-sulfur protein biogenesis, *Proc.Natl.Acad.Sci.U.S.A,* 111, 6203-6208, **2014**.
11. Luchinat E, Barbieri L, Rubino J.T, Kozyreva T, Cantini F & Banci L. In-cell NMR reveals potential precursor of toxic species from SOD1 fALS mutants. *Nature Commun*. 5, 5502, **2014**
12. Banci L, Barbieri L, Bertini I, Luchinat E, Secci E, Zhao Y & Aricescu A.R. Atomic-resolution monitoring of protein maturation in live human cells by NMR. *Nature Chem. Biol.* 9, 297-299, **2013**
13. Scarselli M, Aricò B\*, Brunelli B, Savino S, Di Marcello F, Palumbo E, Veggi D, Ciucchi L, Cartocci E, Bottomley M.J, Malito E, Lo Surdo P, Comanducci M, Giuliani M.M, Cantini F, Dragonetti S, Colaprico A, Doro F, Giannetti P, Pallaoro M, Brogioni B, Tontini M, Hilleringmann M, Nardi-Dei V, Banci L, Pizza M. & Rappuoli R. Rational design of a meningococcal antigen inducing broad protective immunity. *Science Transl Med.* 3, 91ra62, **2011**
14. Banci L, Bertini I, Ciofi-Baffoni S, Kozyreva T, Zovo K & Palumaa P. Affinity gradients drive copper to cellular destinations. *Nature* 465, 645-648, **2010**
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| Appendix | * List of Conferences
* List of seminar held
* Complete list of publications.
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**Appendix**

**Conferences**

**1985**

“VIII School‑Symposium on Inorganic Biochemistry and Molecular Biophysics”, Wroclaw, Poland.

**1986**

“IIIrd Swiss‑Italian Meeting on Inorganic and Bioinorganic Chemistry”, Ferrara, Italy.

**1988**

“Trends in Bioinorganic Chemistry”, Firenze, Italy; “Inorganic Chemistry Workshop of the Italian Chemical Society”, Siena, Italy; “XIII International Conference on Magnetic Resonance in Biological Systems”, Madison, WS, USA

**1989**

 NATO ‑ ASI School: “Enzymatic and Model Carboxylation and Reduction Reactions for Carbon Dioxide Utilization”, Riva dei Tessali, Italy; “IV International Conference on Bioinorganic Chemistry”, Cambridge, MA USA.

**1990**

 “2nd EurAsia Conference on Chemistry”, Seoul, Korea

**1992**

2nd Joint Israel‑Italy Symposium on Magnetic Resonance in Biological and Material Science, Siena, Italy; 2nd Italian‑Portuguese‑Spanish meeting in Inorganic Chemistry, Algarve, Portugal; “Structure‑Function Relationship in Peroxidases and Cytochromes P‑450: from Genetics to Biophysical Characterizations and Chemical Modelling”, Le Bischenberg, France

**1993**

Workshop on “Magnetic Spectroscopy on Bioinorganic Transition Metal Centers”, Homburg, Germany; European Research Conference on “Chemistry of Metals in Biological Systems, Algarve, Portugal; VI  International Conference on Bioinorganic Chemistry, La Jolla, U.S.A; NATO/EMBO/FEBS International Summer School on “Molecular and Cell Biology”, Spetsai, Greece; 2nd Siena-Kyoto Symposium, Kyoto, Japan

**1994**

International Workshop on Iron-Sulphur Proteins, Kostanz, Germany; FEBS-ESF Advanced Course “Chemistry of Metals in Biological Systems”, Louvain-la Neuve, Belgium; NATO Advanced Research Workshop on “Nuclear Magnetic Resonance of Paramagnetic Macromolecules”, Sintra, Portugal; Symposium on Molecular Modeling in Genetic and Protein Engineering, Sopron, Hungary

**1995**

Workshop on “Structural Characterization of Proteins by NMR, X-ray Diffraction, and Computational Methods, Ripa d’Orcia, Italy; European Research Conference on “Chemistry of Metals in Biological Systems”, San Miniato, Italy; FEBS-ESF Advanced Course “Chemistry of Metals in Biological Systems”, Louvain-la Neuve, Belgium; 3rd Greeck-Italian-Spanish-Portuguese Meeting, Senigallia, Italy; International Workshop on “Peroxidase Biotechnology and Application”, Pushchino, Russia; International meeting on Copper in Biological Systems, Santa Severa, Italy

**1996**

FEBS-ESF Advanced Course “Chemistry of Metals in Biological Systems”, Louvain-la Neuve, Belgium

**1997**

NATO Workshop on “Molecular Modeling and Dynamics of Bioinorganic Systems”, San Miniato, Italy; European Research Conference “Chemistry of Metals in Biological Systems”, Tomar, Portugal; Eigth International Conference on Bioinorganic Chemistry, Yokohama, Japan; 4th French-Greeck-Italian-Portoguese-Spanish Meeting in Inorganic Chemistry, Corfu, Greece; Workshop of European Science Foundation on “Molecular Recognition in Metalloproteins”, Sevilla, Spain; Vth International Symposium “Magnetic Field and Spin Effects in Chemistry and Related Phenomena” Jerusalem, Israel

**1998**

FEBS-ESF Advanced Course “Chemistry of Metals in Biological Systems”, Louvain-la Neuve, Belgium; “Forth European Biological Inorganic Chemistry Conference, Seville, Spain; European Summer School “Structure of Metalloproteins” Oeiras, Portugal

**1999**

2nd International Workshop on “Structural Characterization of Proteins by NMR, X-Ray Diffraction and Computational Methods”, Verona, Italy; International Colloquium “Molecular Bioenergetics” Mauloff, Germany; 5th International Symposium on Applied Bioinorganic Chemistry, Corfu Greece; Symposium of the Inorganic Chemistry Division, American Chemical Society Annual Meeting, Anaheim, USA; Symposium of the Cellulose Chemistry Division, American Chemical Society Annual Meeting, Anaheim, USA; FEBS-ESF Advanced Course “Chemistry of Metals in Biological Systems”, Louvain-la Neuve, Belgium; Ninth International Conference on Bioinorganic Chemistry, Minneapolis, USA; Gordon Conference on “Computational Aspects of Biomolecular NMR”, Barga, Italy.

**2000**

Gordon Conference “Metals in Biological Systems”, Ventura, CA, USA; FEBS-ESF Advanced Course “Chemistry of Metals in Biological Systems”, Louvain-la Neuve, Belgium; 2nd International Conference on Superoxide Dismutase, Paris, France; International Conference on “Basic and Clinical Enzymology 2000”, Naples, Italy; First International Conference on Porphyrins and Phthalocyanines, Dijon, France; International Symposium on Advances in Bioinorganic Chemistry, Tata Institute, Mumbai, India.

**2001**

Frontiers of Biomolecular NMR, Ljubljana, Slovenia; 42nd Experimantal Nuclear Magnetic Resonance Conference (ENC), Orlando, USA; Tenth International Conference on Bioinorganic Chemistry, Florence, Italy; 3th International Workshop on Structural Characterisation of Proteins by NMR, X-Ray Diffraction and Computational Methods, San Vito di Cadore, Italy; XXXI National Congress of the Italian Society of Crystallography, Parma, Italy; CECAM/ESF Psi-k Workshop, Lyon, France.

**2002**

International School on Biophysical Characterization of Biological Molecules, Venezia, Italy; Symposium honoring Peter Kollman “Molecular Simulations in Structural Biology and Drug Discovery”, San Francisco, USA; IX DBMS - IBS Workshop “Metals in Biology”, Autrans (Grenoble), France; FEBS-ESF Advanced Course “Chemistry of Metals in Biological Systems”, Louvain-la Neuve, Belgium; XX International Conference on Magnetic Resonance in Biological Systems (ICMRBS) Toronto, Canada.

**2003**

Conference of the Royal Australian Chemical Society, Melbourne, Australia; AsiaBIC, First Asian Bioinorganic Chemistry Conference, Okasaki, Japan; FEBS-ESF Advanced Course “Chemistry of Metals in Biological Systems”, Louvain-la Neuve, Belgium; Summer School on NMR Spectroscopy, Otocez, Slovenia; Meeting on Copper Proteins, Konstanz, Germany.

**2004**

7th European Biological Inorganic Chemistry Conference, Garmisch-Partenkirchen, Germany; Copper Homeostasis and its Disorders: Molecular and Cellular Aspects, Ischia, Italy; Genome Base Drug Discovery, Florence, Italy; XXXIV National Congress of Magnetic Resonance, Alghero, Italy; 4th International Workshop on Structural Characterisation of Proteins by NMR, X-Ray Diffraction and Computational Methods, San Vito di Cadore, Italy; Symposium “Chemistry and Biology - the transition between the two centuries”, Accademia dei Lincei, Roma, Italy; Second Asian Biological Inorganic Chemistry Conference, Goa, India; II SPINE Congress, London, UK.

**2005**

XXI International Conference on Magnetic Resonance in Biological Systems (ICMRBS) Hyderabad, India, EUROMAR 2005, Veldhoven, The Netherlands; ESF Conference “NMR in Molecular Biology”, Scania, Sweden; III SPINE Congress, Montecatini, Italy, Third European Conference on Research Infrastructures, Nottingham, UK

**2006**

37th International Conference of Coordination Chemistry, Cape Town, South Africa, 3rd Asian Biological Inorganic Chemistry Conference (AsBIC-III) Nanjing University, Nanjing, China, **5th International Copper Meeting: Copper and Related Metals in Biology, Alghero, Italy,** 1st European Chemistry Congress Budapest, Hungary, 8th European Biological Inorganic Chemistry Conference, Aviero, Portugal, 4thInternational Conference on Structural Genomics, Beijing, China

**2007**

Gordon Research Conference “Metals n Biology and Medicine”, Ventura, CA, USA; Eureopean Symposium of the Protein Society, Stockholm, Sweden; EMBO Workshop on Intrinsically Unfolded Proteins, Budapest, Hungary; Mutant SOD1 and familial ALS: from the molecule to man, Milan, Italy; 16th Triennial International Conference of the International Society of Magnetic Resonance, ISMAR, Taiwan

**2008**

49th ENC, Asilomar, CA, USA; Gordon Research Conference “Environmental Bioinorganic Chemistry, Waterville, NH, USA; 4th International Conference on Metals and Genetics (ICMG 2008), Paris, France; XXIII ICMRBS, San Diego, CA, USA, **2nd EuCheMS Chemistry Congress, Turin, Italy;** 5th International Conference on Structural Genomics (ICSG 2008), Oxford, UK; Workshop on "Intrinsically Unfolded Proteins and Complementary Methods in Structural Biology, EMBL-Hamburg, Germany

**2009**

Keystone Symposium: Frontiers of NMR in Biology, Santa Fe, NM, USA, Symposium on Advanced Biological Inorganic Chemistry (SABIC-2009), Tata Research Institute, Mumbai, India; International Symposium on Protein Structures, Nara Institute of Technology, Nara, Japan

**2010**

Proteine2010, Parma, Italy; EUROBIC10, Thessaloniki, Greece; 35th FEBS Congress, Goteborg, Sweden; XXIV ICMRBS, Cairns, Australia; ESF-EMBO Symposium on Molecular Perspectives on Protein-Protein Interactions, Sant Feliu de Guixols, Spain; Accademia dei Lincei Symposium “Protein Structure and Dynamics”, Rome, Italy.

**2011**

EMBO Global Exchange Lecture Course “ Structural and Biophysical Methods for Biological Macromolecules in Solution”, Beijing, China; International Conference on Structural Genomics (ICSG 2011), Toronto, Canada; International Conference on Bioinorganic Chemistry, Vancouver, Canada; 13th Central European NMR Symposium &13th Central European Bruker Users, Eötvös Loránd University, Budapest, Hungary; Workshop on Metals in Biology, Goteborg, Sweden; 2011 Cold Spring Harbor Asia Conference on Protein Structure Based Drug Design, Suzhou, China; Structure – & Computer– Aided Design Workshop: Bioactive Molecules & Materials, Athens, Greece.

**2012**

Breakthroughs in NMR of Structural Biology The 2nd Bio-NMR Annual User Meeting, Portorož, Slovenia; XXIV ICMRBS, Lyon, France, Plenary Lecture;

EMBO Global Exchange Lecture Course, Hyderabad; The 3rd annual BioStruct conference 2012 Jægtvolden, Trøndelag; Advanced Mass Spectrometric and NMR Methods Athens, Greece; Copper in Biology 2012 Alghero, Italy; 3rd Annual East-NMR User Meeting Lasko, Slovenia

**2013** CEITEC NMR meeting, Brno, Czech Republic; EUROMAR 2013, Crete, Greece; XXXIV Biennial Congress of the Royal Spanish Society of Chemistry, Santander, Spain; EMBO Members meeting, Heidelberg, Germany; XVIII Argentinian Congress of Physical and Inorganic Chemistry, Rosario, Argentina; International Conference on Bioinorganic Chemistry (ICBIC), Grenoble, France; XXXV German-Italian Magnetic Resonance Discussion Group Meeting, Munich, Germany;4th International Symposium on Metallomics, Oviedo, Spain; 36th Annual Meeting of the Molecular Biology Society of Japan, Kobe, Japan; Trends in Biomolecular Structure; from Chemistry to Function, Ljubljana, Slovenia; Inauguration of REGPOT-SEEDRUG NMR Facility, Patras, Greece.

**2014** EMBO Global Exchange Lecture Course, Sao Paulo, Brasil; RRR Workshop, Osaka and Kyoto, Japan; Annual Conference of the Indian Magnetic Resonance Society, Tizpur, India; Structure And Dynamics of Biological Macromolecules, Roma, Italy; 4th Annual User group Meeting of Bio-NMR, Warsaw, Poland; EMBO Workshop on Magnetic resonance for cellular structural biology, Grosseto, Italy; The FEBS EMBO 2014 Conference, Paris, France, IUPAP International Conference on Biological Physics (ICBP2014, Beijing, China; 9th International Copper Meeting, Copper2014, Vico Equense, Italy; 2014 FASEB Summer Research Conference "Trace Elements in Biology and Medicine", Steamboat Spring, USA; EUROBIC12, Zurich, Switzerland; AsBIC-7 (Plenary Lecture), Queensland, Australia.

**2015** European-Winter School on Physical Organic Chemistry, Bressanone, Italy Plenary Lecture, ISMAR, Shangai, China; International Conference on Structural Genomics (ICSG 2015), Weizmann, Israel; International Conference on Bioinorganic Chemistry (ICBIC), Beijing, China; EMBO Global Exchange Lecture Course, Taipei, Taiwan; PacificChem, Honolulu (USA).

**2016** Metals in Genetics, Chemical Biology and Therapeutics (ICMG), Bangalore, India; EMBO Global Exchange Course, Suwon, South Korea; Korean Biophysical Society Meeting, Seoul, Korea; International Conference on Magnetic Resonance in Biological Systems (XXVII ICMRBS), Kyoto, Japan; Women in Structural Biology Symposium, Grenoble, France; 10th International Copper Meeting, Sorrento, Italy; 42nd Naito Conference in the Vanguard of Structural Biology: Revolutionizing Life Sciences, Sapporo, Japan; New Horizons and Emerging Biomedical Challenges for Biophysics (BBS 2016) Liverpool, UK; Summer School on BioPhysics, Erice, Italy; EUROMAR 2016·Aarhus, Denmark; FEBS-IUBMB Workshop on Biointeractomics, Seville, Spain; 50 Cool Ways to Do NMR, Frankfurt, Germany; Structural and functional annotation of bioinorganic systems: perspectives and challenges from theory and experiments, Pisa, Italy.

**2017** 5th Symposium on Advanced Biological Inorganic Chemistry (SABIC-2017), Kolkata, India; 42nd Lorne Conference on Protein Structure and Function, Lorne, Victoria, Australia; 2nd Annual Users Meeting of iNEXT, Brno, Czech Republic;

Gordon Research Conference “Computational Aspects of Biomolecular NMR”, Newry, ME, US; EUROMAR 2017, Warsaw, Poland; ISMAR 2017 Québec City, Canada; EMBO Practical Course NMR 2017, Basel, Switzerland; 42nd FEBS Congress, Jerusalem, Israel; EMBO Global Exchange Lecture Course, Singapore.

**2018** 62nd Annual Meeting Biophysical Society (BPS18), San Francisco; USA, 43rd FEBS Congress, Prague, CZ; 39th Steenbock Symposium, Madison, Wisconsin, USA; 28th ICMRBS, Dublin, Ireland.

**2019** International Conference "NMR: a tool for Biology", Institut Pasteur, Paris, France; Enova Training School, Siena, Italy; Twinning TIMB3 Training Course on Chemistry of Metals in Biological Systems, Lisbon, Portugal; 7th International Symposium on Metallomics, Warsaw, Poland; 44th FEBS Congress, Krakow, Poland; 2019 Cell Biology of Metals Gordon Research Conference, Castelldefels, Spain; EMBO Practical Course "Structure, dynamics and function of biological macromolecules by solution NMR", Garching, Germany; 19th International Conference on Biological Inorganic Chemistry (ICBIC-19), Interlaken, Switerland; EUROISMAR 2019, Berlin, Germany; EMBO Global Exchange Lecture Course Santiago, Chile.

**2020** 26th NMRS Conference, Rajkot, India**;** International On-line Bioinorganic Symposium (IOBS), Seul, Korea 2020; EMBL Hamburg P12 virtual user workshop, 18 November 2020.

**2021** International Chemical Congress of the Pacific Basin Societies (PacifiChem); EUROMAR 2021; 7th EOC Symposium, Nankai University.

**2022** Biophysical Society 66th Annual Meeting, San Francisco, CA, USA; ENC, Orlando (FL), USA, Nobel Symposium on Bioinorganic Chemistry, Stockholm, Sweden; Metals in Biology Gordon Research Conference, Ventura, CA, USA;, International Conference on Coordination Chemistry, Rimini, Italy

**Seminars**

**1982**

Washington State University, Pulmann, USA

**1985**

Tsinghua University, Beijing, China

**1986**

University of Saarland, Homburg, Germany

**1987**

University of California at Davis, USA; University of Lausanne, Switzerland; University of Basel, Switzerland; University of Padua, Italy; University of Valencia, Spain; University of Barcelona, Spain

**1988**

Scripps Clinics, San Diego, USA; University of California at S. Francisco, USA; University of Minnesota, Minneapolis, USA; University of New Mexico, Albuquerque, USA; Massachussetts Institute of Technology, Cambridge, USA

**1989**

University of California at Davis, USA; University of California at San Diego,USA; Stanford University, USA

**1990**

University of British Columbia, Vancouver, Canada; Kyoto University, Japan; Nagoya University, Japan

**1991**

Pennsylvania State University, USA; The University of Arizona, Tucson , USA; Columbia University, New York, USA

**1992**

University of Pisa, Italy

**1993**

Nagoya University, Japan; Tokyo Institute of Technology, Japan

**1994**

IBM Research Laboratories, Zurich, Switzerland

**1996**

University of Norwich, UK; University of Cambridge, UK

**1997**

University of Milan, Italy

**2000**

University of Naples, Italy; Centro de Investigaciones Biologicas (CSIC), Madrid, Spain.

**2001**

University of Catania, Italy; Florida State University, Tallahassee, USA

**2002**

Princeton University, USA

**2003**

Osaka University, Japan; Leiden University, The Netherlands

**2004**

Forschungsinstitut fuer Molekulare Pharmakologie (FMP) Berlin, Germany

**2006**

Peking University, Beijing, China

**2008**

UCSF, San Francisco, USA; UCLA, Los Angeles, USA

**2009**

University of Tokyo, Japan

**2010**

German Research School for Simulation Sciences, Julich, Germany; University of Sydney, Australia; University of Zurich, Switzeland

**2011**

ETH, Zurich, Switzerland; Nankai University, Tianjin, China

**2013**

Marburg University, Marburg, Germany; ETH Lugano, Switzarland

**2014**

Tsinghua University, Beijing, China; Stanford University, USA

**2015**

Peking University, Beijing, China; Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences; Scuola Normale Superiore, Pisa, Italy; University of Siena, Italy

**2016**

Università La Sapienza, Roma, Italy

**2017**

Monash University, Melbourne, Australia

The University of Melpbourne, Melbourne, Australia

Utrecht University University, Utrecht, The Netherlands

**2020**

Select Science Webinar, “NMR for understanding functional cellular pathways: Metal transport and homeostasis” 9 Dec 2020.

**2021**

ZOOMinar on "Molecular Bases of Proteinopathies", University of Michigan, 8 May, online; 39th edition of the lecture series on "Emerging Topics in Biomolecular Magnetic Resonance" virtual event 25 March; Vienna BioCenter, Modern Concepts Seminar Series, 1 July, online.

**List of publications**

**(updated Jan 2022)**

1. **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**
2. **Matteucci S, Camponeschi F, Clémancey M, Ciofi-Baffoni S, Blondin G, Banci L.** In-cellulo Mӧssbauer and EPR studies bring new evidences to the long-standing debate on the iron-sulfur cluster binding in human anamorsin. ***Angew. Chem.-Int. Ed.,*** doi: 10.1002/anie.202102910, **2021**
3. **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. Sect. D-Struct. Biol.***, 77, 1270-1281. doi: 10.1107/S2059798321009037 **2021**
4. **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**
5. **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
6. [**Cafaro, A**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=31730147)**,** [**Barillari, G**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=40409800)**,** [**Moretti, S**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=1044943)**,** [**Palladino, C**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=42570257)**,** [**Tripiciano, A**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=42574801)**;** [**Falchi, M**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=36137715)**,** [**Picconi, O**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=1036499)**,** [**Cossut, MRP**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=42572782)**,** [**Campagna, M**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=4741363)**,** [**Arancio, A**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=4017911)**,;**[**Sgadari, C**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=556880)**,** [**Andreini, C**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=1082863)**,** [**Banci, L**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=31165)**;**[**Monini, P**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=37009169)**,** [**Ensoli, B**](https://apps.webofknowledge.com/OutboundService.do?SID=E31hdqKlvhwAoAxJlRz&mode=rrcAuthorRecordService&action=go&product=WOS&lang=en_US&daisIds=42574839), 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**
7. **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**
8. **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](https://doi.org/10.1016/j.jmb.2021.166924), **2021**
9. **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**
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11. **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, ***Inorg. Chim. Acta,*** 518, 1, doi.org/10.1016/j.ica.2021.120252 **2021**
12. **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**
13. **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"**. *Biomol. NMR Assign.*,** 1, 85-89**,** doi: 10.1007/s12104-020-09987, **2021**
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15. **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? ***Magn. Reson.***, 2, 203–221, doi: 10.5194/mr-2-203-2021, **2021**
16. **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**
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19. **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
20. **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/acschembio.0c00590
21. **Bonucci A, Murrali 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
22. **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.
23. **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***,
24. **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
25. **Camponeschi F., Banci L.** Metal cofactors trafficking and assembly in the cell: a mecular view" ***Pure Appl. Chem.*,** Volume 91, **2019**, 231-245
26. **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**
27. **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, Kouřilh 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. Struct. Biol. X***, 1, 100006, **2019**
28. **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. Sect. D-Struct. Biol.*** 2019 Mar 1;75(Pt 3):317-324. doi: 10.1107/S2059798319000214. Epub Feb 28, **2019**
29. **Varone A, Mariggiò 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**
30. **Nasta V., Da Vela S., Gourdoupis S., Ciofi-Baffoni S., Svergun D., Banci L.**, Structural properties of [2Fe-2S] ISCA2-IBA57: a complex of the mitochondrial iron-sulfur clusterassembly machinery, ***Sci Rep***, 9,18986, doi: 10.1038/s41598-019-55313-5. **2019**
31. **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.*** first published 2019 Nov 14. doi: 10.1111/febs.15140. **2019**
32. **Camponeschi F, Muzzioli R, Ciofi-Baffoni S, Piccioli M, Banci L.** Paramagnetic 1H NMR Spectroscopy to Investigate the Catalytic Mechanism of Radical S-Adenosylmethionine Enzymes, ***J.*** ***Mol. Biol.*** S0022-2836(19)30542 **2019**
33. **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. doi: 10.1016/j.redox.2019.101102. **2019**
34. **Cerofolini L, Giuntini S, Barbieri L, Pennestri M, Codina A, Fragai M, Banci L, Luchinat E, Ravera E.** Real-Time Insights into Biological Events: In-Cell Processes and Protein-Ligand Interactions. ***Biophys. J.***, 116, 239-247, doi: 10.1016/j.bpj.2018.11.3132. **2019**
35. **Luchinat, E., Banci, L.** New structural and functional insights from in-cell NMR. ***Emerg. Top. Life Sci.***, 2, 29-38, doi: 10.1042/ETLS20170136. **2018**
36. **Putignano, V., Rosato, A., Banci, L. & Andreini, C**. PDB in (2018): a database of metal sites in biological macromolecular structures. ***Nucleic Acids Res.*** 4; D459-D464 doi: 10.1093/nar/gkx989 **2018**
37. **Barbieri L, Luchinat E, Banci L.** Intracellular metal binding and redox behavior of human DJ-1. ***J. Biol. Inorg. Chem.*** Jan;23(1):61-69. doi: 10.1007/s00775-017-1509-5. Epub 2017 Dec 7. **2018**
38. **Ciofi-Baffoni S, Nasta V, Banci L.** Protein networks in the maturation of human iron-sulfur proteins. ***Metallomics***. Jan 24;10(1):49-72. doi: 10.1039/c7mt00269f. Review. **2018**
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40. **Banci L, Camponeschi F, Ciofi-Baffoni S, Piccioli M.** The NMR contribution to protein-protein networking in Fe-S protein maturation. ***J. Biol. Inorg. Chem.***, Jun;23(4):665-685. doi: 10.1007/s00775-018-1552-x. Epub 2018 Mar 22. Review. Erratum in: J Biol Inorg Chem. May 31 **2018**
41. **Capper MJ, Wright GSA, Barbieri L, Luchinat E, Mercatelli E, McAlary L, Yerbury JJ, O'Neill PM, Antonyuk SV, Banci L, Hasnain SS.** The cysteine-reactive small molecule ebselen facilitates effective SOD1 maturation. ***Nat. Commun.*** Apr 27;9(1):1693. doi: 10.1038/s41467-018-04114-x. **2018**
42. **Maione V, Cantini F, Severi M, Banci L.** Investigating the role of the human CIA2A-CIAO1 complex in the maturation of aconitase. ***Biochim. Biophys. Acta-Gen. Subj.,*** Sep;1862(9):1980-1987. doi: 10.1016/j.bbagen.2018.05.019. Epub 2018 May 26. **2018**
43. **Banci L, Camponeschi F, Ciofi-Baffoni S, Piccioli M.** Correction to: The NMR contribution to protein-protein networking in Fe-S protein maturation. ***J. Biol. Inorg. Chem.,*** Jun;23(4):687. doi: 10.1007/s00775-018-1573-5. **2018**
44. **Luchinat E, Banci L.** In-Cell NMR in Human Cells: Direct Protein Expression Allows Structural Studies of Protein Folding and Maturation. ***Accounts Chem. Res.*** Jun 19;51(6):1550-1557. doi: 10.1021/acs.accounts.8b00147. Epub 2018 Jun 5. **2018**
45. **Saponaro A, Cantini F, Porro A, Bucchi A, DiFrancesco D, Maione V, Donadoni C, Introini B, Mesirca P, Mangoni ME, Thiel G, Banci L, Santoro B, Moroni A.** A synthetic peptide that prevents cAMP regulation in mammalian hyperpolarization-activated cyclic nucleotide-gated (HCN) channels. ***eLife***. Jun 20;7. pii: e35753. **2018**
46. **Andreini C, Putignano V, Rosato A, Banci L.** The human iron-proteome. ***Metallomics***. Sep 19;10(9):1223-1231. doi: 10.1039/c8mt00146d. **2018**
47. **Gourdoupis S, Nasta V, Calderone V, Ciofi-Baffoni S, Banci L.** IBA57 Recruits ISCA2 to Form a [2Fe-2S] Cluster-Mediated Complex. ***J. Am. Chem. Soc.*** Oct 31;140(43):14401-14412. doi: 10.1021/jacs.8b09061. Epub 2018 Oct 17. **2018**
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54. **Banci L and Luchinat E.** In cell NMR - a topical review. ***IUCrJ*** 4: 108-118**, 2017**
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