

## **Carla Isernia Curriculum Vitae et Studiorum**

### CURRENT POSITION

Full Professor of General and Inorganic Chemistry (SSD CHIM/03) at the Università della Campania “L’Vanvitelli” (Unicampania), Department of Environmental, Biological and Pharmaceutical Sciences and Technologies (DiSTABiF).

President of the Degree Course Board in Pharmacy of the DiSTABiF, Unicampania.

Component of the Scientific Board of Magnetic Resonances Interdivisional Group, SCI.

Component of the Centro Interuniversitario di Ricerca sui Peptidi Bioattivi (CIRPEB) Scientific Board.

Component of the PhD Course Academic Board in Biomolecular Sciences.

### EDUCATION, TRAINING AND PROFESSIONAL ACHIEVEMENTS

December 30, 2020: Full Professor of General and Inorganic Chemistry (SSD CHIM/03), Unicampania, DiSTABiF.

September 11-13, 2019: Member of the Scientific Committee, National Congress of Division of Chemistry of Biological Systems, SCI, Siena.

February 12-15, 2019: Member of the Organizing Committee of the Scuola Nazionale di Chimica Bioinorganica for PhD students 2019, organized by the Divisions of Chemistry of Biological Systems and Inorganic Chemistry, SCI, Roma.

December 2018 - today: President of the Degree Course Board in Pharmacy of the DiSTABiF, Unicampania.

September 26-28, 2018: Member of the Scientific and Organizing Committee, National Congress of the Division of Chemistry of Biological Systems, SCI, Caserta.

June 7-9, 2018: Member of the Organizing Committee, 6th Naples Workshop on Bioactive Peptides, Napoli.

September 10-14, 2017: Member of the Scientific Committee, National Congress of the Italian Society of Chemistry, Paestum (SA).

September 21-23, 2016: Member of the Scientific Committee, National Congress of the Division of Chemistry of Biological Systems, SCI, Verona.

From December 2015: President of the Professor-Students Joint Commission of the DiSTABiF, SUN.

September 24-25, 2015: Chair of National Congress of Division of Chemistry of Biological Systems, SCI, Siracusa.

January 2015-December 2017: President of Division of Chemistry of Biological Systems, SCI.

September 19-20, 2013: Member of the Scientific Committee, National Congress of the Division of Chemistry of Biological Systems, SCI, Bertinoro (BO).

September 24-25, 2012: Member of the Scientific and Organizing Committee, National Congress of the Division of Chemistry of Biological Systems, SCI, Naples.

January 2012: vice-President and Treasurer of Division of Chemistry of Biological Systems, SCI.

January 2009: Treasurer of Division of Chemistry of Biological Systems, SCI.

November 11-13, 2004: Member of the Organizing Committee, National Congress of Division of Chemistry of Biological Systems, SCI, Belvedere di San Leucio, Caserta.

February 2002: Visiting scientist at the Centre for Design and Structure in Biology, Institute of Molecular Biotechnology, Jena, Germany.

10 July 2001: Associate Professor of General and Inorganic Chemistry (CHIM03), Environmental Science Faculty, SUN, since 2012 DiSTABiF.

From November 1999: Component of PhD training board in 'Design and applications of biotechnologically relevant molecules', currently 'Biomolecular Sciences' PhD Course.

October 1999-July 2001: Delegate of the assistant professors in Faculty Board (Environmental Science Faculty, SUN).

3 October 1994-July 2001: Assistant Professor of General and Inorganic Chemistry (CHIM03), Environmental Science Faculty, SUN.

April 1993-October 1995: Post-Doc fellowship of University "Federico II" of Naples, Department of Chemistry. Research Project: NMR Studies on neuropeptides from insects.

March 1992 -February 1993: Scientific collaboration fellowship at CIRPEB. Research Project: Fine tuning of spectroscopic techniques and NMR data collection on neuropeptides from insects.

July 1992: Ph.D. in Chemistry. Thesis: Molecular Design of helicoidal structure: Synthesis and NMR structure determination of bioactive peptides and their analogues. Tutor: Prof. C. Pedone. The Ph.D. course required the contribution to lectures and student examinations in General and Inorganic Chemistry.

January 1992: Qualification as Professional Chemist (96/100).

May-December 1990: Visiting PhD student at the Organische Chemisches Institut, Technische Universität München (Monaco, Germania). Tutor: Prof. H. Kessler. Research project: Conformational Study in solution of cyclic esapeptides by NMR.

January-October 1988: Scientific collaboration fellowship at the Department of Chemistry, University Federico II of Naples. Research project: Synthesis, purification and NMR characterization of Clupeine Y1 peptidic fragments. Tutor: Prof. L. Paolillo.

17 December 1987: Master Degree in Chemistry, University Federico II of Naples, (110/110). Thesis: Synthesis and NMR characterization of one Clupeine Y1 fragment. Tutor: Prof. L. Paolillo.

Prof. Isernia is also expert reviewer of MIUR Projects and scientific reviewer for international journals.

## TEACHING AND ACADEMIC ACTIVITY

Prof. Isernia started her teaching activity at SUN in the academic year 1998/1999 with the course Environmental Chemistry for the Degree in Environmental Sciences. Since then she taught General and Inorganic Chemistry, Chemical Methodologies for Molecular Analysis, Environmental Chemistry and Chemistry of Metals for the Bachelor Degree in Environmental Sciences, and Chemistry of Metals for the Bachelor Degree in Biotechnology.

Currently, she teaches General and Inorganic Chemistry for the Corso di Laurea Magistrale in Farmacia and Corso di Laurea in Scienze Agrarie e Forestali, at DiSTABiF, Unicampania.

Prof. Isernia has given courses and seminars in specialization, PhD and high formation schools. She has been supervisor of Master and Bachelor degree thesis and tutor of PhD thesis. She has been member of several committees for University and CNR competitive examinations and for admissions and final examinations of PhD courses. Furthermore, she was involved in the first set up of the Chemistry educational lab of the Environmental Sciences Faculty, SUN.

## FUNDED PROJECTS

V:ALERE program 2019 Unicampania - Fusion inhibitory lipopeptides engineered for antiviral therapy against measles virus infections. Project coordinator: prof. M. Galdiero, Research Unit of DiSTABiF scientific supervisor: prof. C. Isernia.

PRIN Project 2017 - The inorganic side of lysosome cell biology: the network of metal-protein interactions. Project coordinator prof. F. Arnesano, Research Unit of Unicampania scientific supervisor: prof. C. Isernia.

PRIN Project 2009 - Studi strutturali e funzionali di proteine importanti per la patogenicità del batterio responsabile della Tubercolosi. Project coordinator: prof. C. Isernia, Research Unit of Unicampania scientific supervisor: prof. C. Isernia

PRIN Project 2007 - Tumori del sistema nervoso nell'infanzia: screening NMR di librerie di molecole e sintesi di nuovi agenti terapeutici. Project coordinator: prof. L. Di Marcotullio, Research Unit of Caserta scientific supervisor: prof. C. Isernia.

PRIN Project 2005 - Oncogeni ed oncosoppressori coinvolti nei tumori del sistema nervoso: studio strutturale NMR e sintesi di nuovi analoghi oligonucleotidici con potenziali applicazioni terapeutiche. Project coordinator: prof. C. Pedone, Research Unit of Caserta scientific supervisor: prof. C. Isernia.

PRIN Project 2004 - Determinazione della struttura tridimensionale del dominio carbossi-terminale del trasportatore umano degli amminoacidi eccitatori di tipo 2 (EAAT2) e caratterizzazione del sito di legame con il glutammato ed altri ligandi specifici. Project coordinator: prof. B. Di Blasio, Research Unit of Caserta scientific supervisor: prof. B. Di Blasio.

PRIN Project 2003 - Analisi strutturale attraverso tecniche NMR di frammenti peptidici delle proteine prione e Doppel e della loro interazione con metalli e possibili agenti terapeutici. Project coordinator: prof. A. Zagari, Research Unit of Caserta scientific supervisor: prof. R. Fattorusso.

PRIN Project 2002 - Studi strutturali e funzionali dei domini funzionali dei sistemi di trasporto degli amminoacidi eccitatori (EAAT) e della loro interazione con nuovi ligandi specifici. Project coordinator: prof. B. Di Blasio, Research Unit of Caserta scientific supervisor: prof. B. Di Blasio.

Project "Centro Regionale di Competenza Produzioni Agroalimentari" - Misura 3.16 del POR Campania 2000-2006.

PRIN Project 1998: Struttura e Funzione di Domini Zinc Finger. Project Coordinator: prof. V. Pavone, Research Unit of Caserta scientific supervisor: prof. B. Di Blasio

#### SCIENTIFIC ACTIVITY

Prof. Isernia research interest has focused on the study of the three-dimensional structure of proteins, conformational properties of bioactive peptides and their interaction with metal ions. Within this context, she has worked in collaboration with several European groups, as for example the Centre for Design and Structure in Biology, Jena, Germany, and the groups of Catania and Naples of the CNR Istituto di Biostrutture e Bioimmagini.

NMR data together with other spectroscopic (IR, UV-Vis, CD) and computational data (Molecular Dynamics techniques) are currently used to study the determinants of the protein binding to zinc or to xenobiotic metal ions, the high resolution structure and dynamics of biological molecules and macromolecules, the conformational preferences and behaviour of biomolecules in solution.

Actually, the research activity mainly focuses on:

- Role of metal ions in determining the folding/unfolding pathways of proteins.
- Molecular recognition in biological system chemistry with the aim to determine the structural conformation responsible for the functional activity.
- Methodological application of NMR techniques to metalloproteins.
- Inclusion complexes formation of beta-cyclodextrins with small molecules.

Prof. Isernia is currently involved in the study of classical zinc finger proteins belonging to eukaryotes or prokaryotes. In this field, the characteristics of the binding to zinc and to xenobiotic metal ions are examined in depth, as well as the domain folding mechanism.

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## List of publications

81. Grazioso R, García-Viñuales S, D'Abrosca G, Baglivo I, Pedone PV, Milardi D, Fattorusso R, **Isernia C**, Russo L, Malgieri G "Different buffer same folding scenario: the change of conditions does not affect Ros87 downhill mechanism", *Scientific Reports* (2020) 10, 21067. DOI: 10.1038/s41598-020-78008-8.
80. Grazioso R, García-Viñuales S, Russo L, D'Abrosca G, Esposito S, Zaccaro L, Iacovino R, Milardi D, Fattorusso R, Malgieri G, **Isernia C** "Substitution of the native Zn(II) with Cd(II), Co(II) and Ni(II) changes the downhill unfolding mechanism of Ros87 to a completely different scenario", *Int. J. Mol. Sci.* 2020, 21, 8285; doi:10.3390/ijms21218285.
79. **Isernia C**, Malgieri G, Russo L, D'Abrosca G, Baglivo I, Pedone PV, Fattorusso R "Zinc Fingers", *Met Ions Life Sci.* 2020 Mar 23;20:/books/9783110589757/9783110589757-018/9783110589757-018.xml. doi: 10.1515/9783110589757-018.
78. D'Abrosca G, Paladino A, Baglivo I, Russo L, Sassano M, Grazioso R, Iacovino R, Pirone L, Pedone EM, Pedone PV, **Isernia C**, Fattorusso R, Malgieri G "Structural insight of the full-length Ros protein: A prototype of the proaryotic zinc-finger family", *Scientific Reports* (2020) 10, 9283. DOI: 10.1038/s41598-020-66204-5.
77. Di Donato C, Iacovino R, **Isernia C**, Malgieri G, Varela A, Concheiro A, Alvarez-Lorenzo C, "Polypseudorotaxanes of Pluronic® F127 with combinations of α- and β-cyclodextrins for topical formulation of acyclovir", *Nanomaterials* (2020) 10(4), 613; DOI: 10.3390/nano10040613.
76. Magrì A, Tabbì G, Cucci LM, Satriano C, Pietropaolo A, Malgieri G, **Isernia C**, La Mendola D, "The curious case of opossum prion: a physicochemical study on the copper(II) binding to the bis-decarepeat fragment from the protein N-terminal domain", *Dalton Transactions*, (2019) 48, 17533-17543. DOI:10.1039/C9DT02510C.
75. De Tommaso G, Malgieri G, De Rosa L, Fattorusso R, D'Abrosca G, Romanelli A, Iuliano M, D'Andrea LD, **Isernia C**, "Coordination of a bis-histidine-oligopeptide to Re(I) and Ga(III) in aqueous solution", *Dalton Transactions*, (2019) 48,15184-15191. doi: 10.1039/c9dt02406a.
74. Esposito S, Bianco A, Russo R, Di Maro A, **Isernia C**, Pedone PV, "Therapeutic perspectives of Urtica dioica extracts for cancer treatment", *Molecules*, (2019) 24, 2753. DOI:10.3390/molecules24152753.
73. Farina B, Del Gatto A, Comegna D, Di Gaetano S, Capasso D, **Isernia C**, Saviano M, Fattorusso R, Zaccaro L, Russo L, "Conformational studies of RGDechi peptide by natural-abundance NMR spectroscopy", *J Pept Sci*, (2019) 25, e3166. DOI: 10.1002/psc.3166.
72. Sivo V, D'Abrosca G, Baglivo I, Iacovino R, Pedone PV, Fattorusso R, Russo L, Malgieri G, **Isernia C**, "Ni(II), Hg(II), and Pb(II) coordination in the prokaryotic zinc-finger Ros87", *Inorg Chem*, (2019) 58, 1067–80. DOI: 10.1021/acs.inorgchem.8b02201.
71. D'Abrosca G, Paladino A, Cuoco E, Marasco R, Pacifico S, Piccolella S, Vastano V, Sacco M, **Isernia C**, Muscariello L, Malgieri G, "Structural characterization of the *Lactobacillus Plantarum* FlmC protein involved in biofilm formation", *Molecules*, (2018) 23, e2252. DOI:10.3390/molecules23092252.

70. Di Stasi R, Diana D, Capasso D, Di Gaetano S, De Rosa L, Celentano V, **Isernia C**, Fattorusso R, D'Andrea LD, "VEGFR recognition interface of a proangiogenic VEGF-mimetic peptide determined in vitro and in presence of endothelial cells by NMR spectroscopy", *Chemistry -A European Journal*, (2018) 24, 11461-66. DOI: 10.1002/chem.201802117.
69. Malgieri G, D'Abrosca G, Pirone L, Toto A, Palmieri M, Russo L, Sciacca MFM, Tatè R, Sivo V, Baglivo I, Majewska R, Coletta M, Pedone PV, **Isernia C**, De Stefano M, Gianni S, Pedone EM, Milardi D, Fattorusso R, "Folding mechanisms steer the amyloid fibril formation propensity of highly homologous proteins", *Chem Sci*, (2018) 9, 3290-98. DOI: 10.1039/c8sc00166a.
68. Sivo V, D'Abrosca G, Russo L, Iacovino R, Pedone PV, Fattorusso R, **Isernia C**, Malgieri G, "Co(II) coordination in prokaryotic zinc finger domains as revealed by UV-Vis spectroscopy", *Bioinorg Chem Appl*, (2017); 2017:1527247. DOI: 10.1155/2017/1527247.
67. Di Giuseppe AM, Russo L, Russo R, Ragucci S, Caso JV, **Isernia C**, Chambery A, Di Maro A, "Molecular characterization of myoglobin from Sciurus vulgaris meridionalis: primary structure, kinetics and spectroscopic studies", *Biochim Biophys Acta Proteins Proteom*, (2017) 1865, 499-509. DOI: 10.1016/j.bbapap.2017.02.011.
66. Iacovino R, Caso JV, Di Donato C, Malgieri G, Palmieri M, Russo L, **Isernia C**, "Cyclodextrins as complexing agents: preparation and applications", *Current Organic Chemistry*, (2017) 21, 162-176. DOI: 10.2174/1385272820666160909111842.
65. Di Donato C, Lavorgna M, Fattorusso R, **Isernia C**, Isidori M, Malgieri G, Piscitelli C, Russo C, Russo L, Iacovino R, "Alpha- and beta-cyclodextrin inclusion complexes with 5-Fluorouracil: characterization and cytotoxic activity evaluation", *Molecules*, (2016) 21, e1644. DOI: 10.3390/molecules21121644.
64. De Tommaso G, Celentano V, Malgieri G, Fattorusso R, Romanelli A, D'Andrea LD, Iuliano M, **Isernia C**, "fac-[Re(H<sub>2</sub>O)<sub>3</sub>(CO)<sub>3</sub>]<sup>+</sup> complexed with histidine and imidazole in aqueous solution: speciation, affinity and binding features", *ChemistrySelect*, (2016) 1, 3739–3744. DOI: 10.1002/slct.201600817.
63. D'Abrosca G, Russo L, Palmieri M, Baglivo I, Netti F, de Paola I, Zaccaro L, Farina B, Iacovino R, Pedone PV, Isernia C, Fattorusso R, Malgieri G, "The (unusual) aspartic acid in the metal coordination sphere of the prokaryotic zinc finger domain", *J Inorg Biochem*, (2016) 161, 91-8. DOI: 10.1016/j.jinorgbio.2016.05.006.
62. Maione V, Ruggiero A, Russo L, De Simone A, Pedone PV, Malgieri G, Berisio R, **Isernia C**, "NMR structure and dynamics of the resuscitation promoting factor RpfC catalytic domain", *PLoS One*, (2015) 10, e0142807. DOI: 10.1371/journal.pone.0142807.
61. Malgieri G, Palmieri M, Russo L, Fattorusso R, Pedone PV, **Isernia C**, "The prokaryotic zinc-finger: structure, function and comparison with the eukaryotic counterpart", *FEBS J*, (2015) 282, 4480-96. DOI: 10.1111/febs.13503.
60. Caso JV, Russo L, Palmieri M, Malgieri G, Galdiero S, Falanga A, **Isernia C**, Iacovino R, "Investigating the inclusion properties of aromatic amino acids complexing beta-cyclodextrins in model peptides", *Amino Acids*, (2015) 47, 2215-27. DOI: 10.1007/s00726-015-2003-4.

59. Malgieri G, Avitabile C, Palmieri M, D'Andrea LD, **Isernia C**, Romanelli A, Fattorusso R, "Structural basis of a Temporin 1b analogue antimicrobial activity against Gram negative bacteria determined by CD and NMR techniques in cellular environment", *ACS Chem Biol.* (2015) 10, 965-9. DOI: 10.1021/cb501057d.
58. Russo L, Palmieri M, Caso JV, D' Abrosca G, Diana D, Malgieri G, Baglivo I, **Isernia C**, Pedone PV, Fattorusso R, "Towards understanding the molecular recognition process in prokaryotic zinc-finger domain", *Eur J Med Chem*, (2015) 91, 100-8. DOI: 10.1016/j.ejmech.2014.09.040.
57. De Rosa L, Diana D, Basile A, Russomanno A, **Isernia C**, Turco MC, Fattorusso R, D'Andrea LD, "Design, structural and biological characterization of a VEGF inhibitor  $\beta$ -hairpin-constrained peptide", *Eur J Med Chem*, (2014) 73, 210-6. DOI: 10.1016/j.ejmech.2013.12.016.
56. Baglivo I, Palmieri M, Rivellino A, Netti F, Russo L, Esposito S, Iacobino R, Farina B, **Isernia C**, Fattorusso R, Pedone PV, Malgieri G, "Molecular strategies to replace the structural metal site in the prokaryotic zinc finger domain", *Biochim Biophys –proteins and proteomics*, (2014) 1844, 497-504. DOI: 10.1016/j.bbapap.2013.12.019.
55. Malgieri G, Palmieri M, Esposito S, Maione V, Russo L, Baglivo I, de Paola I, Milardi D, Diana D, Zaccaro L, Pedone PV, Fattorusso R, **Isernia C**, "Zinc to cadmium replacement in the prokaryotic zinc-finger domain", *Metalomics*, (2014) 6, 96-104. DOI: 10.1039/c3mt00208j.
54. Palmieri M, Russo L, Malgieri G, Esposito S, Baglivo I, Rivellino A, Farina BM, de Paola I, Zaccaro L, Milardi D, **Isernia C**, Pedone PV, Fattorusso R, "Deciphering the zinc coordination properties of the prokaryotic zinc finger domain: the solution structure characterization of Ros87 H42A functional mutant", *J Inorg Bio*, (2014) 131, 30-36. DOI: 10.1016/j.jinorgbio.2013.10.016.
53. Russo L, Raiola L, Campitiello MA, Magri A, Fattorusso R, Malgieri G, Pappalardo G, La Mendola D, **Isernia C**, "Probing the residual structure in avian prion hexarepeats by CD, NMR and MD techniques", *Molecules*, (2013) 18, 11467-84. DOI: 10.3390/molecules180911467.
52. Travaglia A, La Mendola D, Magrì A, Pietropaolo A, Nicoletti V, Grasso G, Malgieri G, Fattorusso R, **Isernia C**, Rizzarelli E, "Zn(II) interactions with Brain-Derived Neurotrophic Factor N-terminal peptide fragments: inorganic features and biological perspectives", *Inorg Chem*, (2013) 52, 11075-83. DOI: 10.1021/ic401318t.
51. Iacobino R, Rapuano F, Caso JV, Russo A, Lavorgna M, Russo C, Isidori M, Russo L, Malgieri G, **Isernia C**, " $\beta$ -Cyclodextrin inclusion complex to improve physicochemical properties of pipemidic acid: characterization and bioactivity evaluation", *Int J Mol Sci*, (2013) 14, 13022-41. DOI: 10.3390/ijms140713022.
50. Netti F, Malgieri G, Esposito S, Palmieri M, Baglivo I, **Isernia C**, Omichinski JG, Pedone PV, Lartillot N, Fattorusso R, "An experimentally tested scenario for the structural evolution of eukaryotic Cys<sub>2</sub>His<sub>2</sub> zinc fingers from eubacterial Ros homologs", *Mol Biol Evol*, (2013) 30, 1504-1513. DOI: 10.1093/molbev/mst068.
49. Palmieri M, Malgieri G, Russo L, Baglivo I, Esposito S, Netti F, Del Gatto A, de Paola I, Zaccaro L, Pedone PV, **Isernia C**, Milardi D, Fattorusso R, "Structural Zn(II) implies a switch from fully cooperative to partly downhill folding in highly homologous proteins", *J Am Chem Soc*, (2013) 135, 5220-5228. DOI: 10.1021/ja4009562.

48. Diana D, Di Stasi R, De Rosa L, **Isernia C**, D'Andrea LD, Fattorusso R, "Structural investigation of the VEGF receptor interaction with a helical antagonist peptide", *J Pept Sci*, (2013) 19, 214-9. DOI: 10.1002/psc.2480.
47. Iacobino R, Caso JV, Rapuano F, Russo A, Isidori M, Lavorgna M, Malgieri G, **Isernia C**, "Physicochemical characterization and cytotoxic activity evaluation of Hydroxymethylferrocene:  $\beta$ -Cyclodextrin inclusion complex", *Molecules*, (2012) 17, 6056-70. DOI: 10.3390/molecules17056056.
46. Di Fabio G, Malgieri G, **Isernia C**, D'Onofrio J, Gaglione M, Messere A, Zarrelli A, De Napoli L, "A novel synthetic strategy for monosubstituted cyclodextrin derivatives", *Chem Commun (Camb)*, (2012) 48, 3875-7. DOI: 10.1039/c2cc30550j.
45. Galdiero S, Russo L, Falanga A, Cantisani M, Vitiello M, Fattorusso R, Malgieri G, Galdiero M, **Isernia C**, "Structure and orientation of the gH625-644 membrane interacting region of herpes simplex virus type 1 in a membrane mimetic system", *Biochemistry*, (2012) 51, 3121-8. DOI: 10.1021/bi201589m.
44. Arena G, Fattorusso R, Grasso G, Grasso GI, **Isernia C**, Malgieri G, Milardi D, Rizzarelli E, "Zinc(II) complexes of Ubiquitin: speciation, affinity and binding features", *Chemistry -A European Journal*, (2011) 17, 11596-603. DOI: 10.1002/chem.201101364.
43. Travaglia A, Arena G, Fattorusso R, **Isernia C**, La Mendola D, Malgieri G, Nicoletti V, Rizzarelli E, "The inorganic perspective of Nerve Growth Factor: interactions of  $Cu^{2+}$  and  $Zn^{2+}$  with the N-terminus fragment of Nerve Growth Factor encompassing the recognition domain of the TrkA receptor", *Chemistry -A European Journal*, (2011) 17, 3726-38. DOI: 10.1002/chem.201002294.
42. Malgieri G, Zaccaro L, Leone M, Bucci E, Esposito S, Baglivo I, Del Gatto A, Scandurra R, Pedone PV, Fattorusso R, **Isernia C**, "Zinc to cadmium replacement in the *A. thaliana* SUPERMAN Cys<sub>2</sub>His<sub>2</sub> zinc finger induces structural rearrangements of typical DNA base determinant positions", *Biopolymers*, (2011) 95, 801-10. DOI: 10.1002/bip.21680.
41. Galdiero S, Falanga A, Vitiello M, Raiola L, Russo L, Pedone C, **Isernia C**, Galdiero M, "The presence of a single N-terminal histidine residue enhances the fusogenic properties of a membranotropic peptide derived from herpes simplex virus type 1 glycoprotein H", *J Biol Chem*, (2010) 285, 17123-36. DOI: 10.1074/jbc.M110.114819.
40. Russo L, Palmieri M, Baglivo I, Esposito S, **Isernia C**, Malgieri G, Pedone PV, Fattorusso R, "NMR assignments of the DNA binding domain of MI4 protein from *Mesorhizobium loti*", *Biomolecular NMR Assignments*, (2010) 4, 55-57. DOI: 10.1007/s12104-009-9206-0.
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