

**CERM Publications
(December 2025)**

1. Roscioli E, Zucconi Galli Fonseca V, Bosch SS, Paciello I, Maccari G, Cardinali G, Batani G, Stazzoni S, Tiseo G, Giordano C, Yuwei S, Capoccia L, Cardamone D, Ridelfi M, Troisi M, Manganaro N, Mugnaini C, De Santi C, Ciabattini A, Cerofolini L, Fragai M, Licastro D, Wyres K, Dortet L, Barnini S, Nicolau DP, Menichetti F, Falcone M, Abdelraouf K, Sala C, Kabanova A, Rappuoli R. Monoclonal antibodies protect against pandrug-resistant *Klebsiella pneumoniae*. **Nature** 2025 Oct;646(8087):1204-1213. doi: 10.1038/s41586-025-09391-3. Epub 2025 Oct 1. PMID: 41034577. (IF 48.5)
2. Tino AS, Quagliata M, Schiavina M, Pacini L, Papini AM, Felli IC, Pierattelli R. Revealing the Potential of a Chimaera: a Peptide-Peptide Nucleic Acid Molecule Designed To Interact with the SARS-CoV-2 Nucleocapsid Protein. **Angew Chem Int Ed Engl**. 2025 Mar 10;64(11):e202420134. doi: 10.1002/anie.202420134. Epub 2025 Feb 14. (IF 16.1)
3. Cosottini L, Giachetti A, Guerri A, Martinez-Castillo A, Geri A, Zineddu S, Abrescia NGA, Messori L, Turano P, Rosato A. Structural Insight Into a Human H Ferritin@Gold-Monocarbene Adduct: Aurophilicity Revealed in a Biological Context. **Angew Chem Int Ed Engl**. 2025 Apr 18:e202503778. doi: 10.1002/anie.202503778. Epub ahead of print. PMID: 40249912. (IF 16.1)
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5. Sherry L, Bahar MW, Porta C, Fox H, Grehan K, Nasta V, Duyvesteyn HME, De Colibus L, Marsian J, Murdoch I, Ponndorf D, Kim SR, Shah S, Carlyle S, Swanson JJ, Matthews S, Nicol C, Lomonossoff GP, Macadam AJ, Fry EE, Stuart DI, Stonehouse NJ, Rowlands DJ. Recombinant expression systems for production of stabilised virus-like particles as next-generation polio vaccines. **Nat Commun**. 2025 Jan 18;16(1):831. doi: 10.1038/s41467-025-56118-z (IF 15.7)
6. Vignoli A, Cacciatore S, Tenori L. Deriving three one dimensional NMR spectra from a single experiment through machine learning. **Nat Commun**. 2025 Nov 19;16(1):10159. doi: 10.1038/s41467-025-65294-x. PMID: 41257833; PMCID: PMC12630646. (IF 15.7)

7. Bracaglia L, Oliveti S, Felli IC, Pierattelli R. Decoding Order and Disorder in Proteins by NMR Spectroscopy. **J Am Chem Soc.** 2025 Apr 13. doi: 10.1021/jacs.4c14959. Online ahead of print. (IF 15.6)
8. Padilla-Cortés L, Gheorghita GR, Currò F, Calamandrei R, Susini B, Callozzo S, Crivello G, Russomanno P, Ravera E, Cerofolini L, Fragai M. NMR Assessment of the High Order Structure of Biological Therapeutics in Erythrocytes Provides a Tool for Drug Delivery Design. **J Am Chem Soc.** 2025 Jul 30;147(30):26379-26388. doi: 10.1021/jacs.5c05617. Epub 2025 Jul 16 (IF 15.6)
9. Russomanno P, Zizza P, Cerofolini L, D'Aria F, Iachettini S, Di Vito S, Biroccio A, Amato J, Fragai M, Pagano B. Expanding the Functions of KHSRP Protein: Insights into DNA G-Quadruplex Binding. **Adv Sci (Weinh).** 2025 Feb;12(8):e2410086. doi: 10.1002/advs.202410086. Epub 2025 Jan 6. (IF 14.3)
10. Di Carluccio C, Padilla-Cortés L, Tiemblo-Martin M, Gheorghita GR, Oliva R, Cerofolini L, Masi AA, Abreu C, Tseng HK, Molinaro A, Del Vecchio P, Vaněk O, Lin CC, Marchetti R, Fragai M, Silipo A. Insights into Siglec-7 Binding to Gangliosides: NMR Protein Assignment and the Impact of Ligand Flexibility. **Adv Sci (Weinh).** 2025 Apr 26:e2415782. doi: 10.1002/advs.202415782. Epub ahead of print. PMID: 40285643. (IF 14.3)
11. Vieri W, Ghini V, Turano P, Massai L, Messori L, Fondi M. Modeling the metabolic response of A2780 ovarian cancer cells to gold-based cytotoxic drugs. **NPJ Syst Biol Appl.** 2025 Jul 28;11(1):83. doi: 10.1038/s41540-025-00535-9. (IF 13.7)
12. Pérez-Ràfols A, Pérez-Ropero G, Cerofolini L, Sperotto L, Roca-Martínez J, Higuera-Rodríguez RA, Russomanno P, Kaiser W, Vranken W, Danielson UH, Provenzani A, Martelli T, Sattler M, Buijs J, Fragai M. Deciphering the RNA recognition by Musashi-1 to design protein and RNA variants for in vitro and in vivo applications. **Nucleic Acids Res.** 2025 Aug 11;53(15):gkaf741. doi: 10.1093/nar/gkaf741 (IF 13.1)
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14. Di Carluccio C, Nieto-Fabregat F, Cerofolini L, Abreu C, Padilla-Cortés L, Gheorghita GR, Masi AA, Buono L, Gumah Adam Ali M, Lamprinaki D, Molinaro A, Juge N, Smaldone G, Vaněk O, Fragai M,

Marchetti R, Silipo A. Fusobacterium nucleatum Lipopolysaccharides O-Antigen Defines a Novel Siglec-7 Binding Epitope. **JACS Au**. 2025 Sep 25;5(11):5367-5380. doi: 10.1021/jacsau.5c00810. PMID: 41311924; PMCID: PMC12648312. (IF 8.7)

15. Di Carluccio C, Gerpe Amor T, Lenza MP, Masi AA, Abreu C, Longo V, Albano F, Nieto-Fabregat F, Salvatore P, Falco G, Santana-Medero D, Fragai M, van Kooyk Y, Molinaro A, Valdes-Balbin Y, Vaněk O, Verež-Bencomo V, Marchetti R, Chiodo F, Silipo A. Molecular Basis of Siglec-7 Recognition by Neisseria meningitidis Serogroup Y CPS: Implications for Immune Evasion. **JACS Au**. 2025 Apr 30;5(5):2257-2269. doi: 10.1021/jacsau.5c00214. PMID: 40443894; PMCID: PMC12117448. (IF 8.7)
16. Bolognesi T, Schiavina M, Felli IC, Pierattelli R. NMR insights on multidomain proteins: the case of the SARS-CoV-2 nucleoprotein. **Prog Nucl Magn Reson Spectrosc**. 2025 Aug-Oct;148-149:101577. doi: 10.1016/j.pnmrs.2025.101577. Epub 2025 Jul 7. PMID: 40912879. (IF 8.2)
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23. Vignoli A, Luchinat C, Segata N, Renzi D, Tenori L, Calabrò AS. Serum metabolomics and lipoproteomics discriminate celiac disease and non-celiac gluten sensitivity patients. **Clin Nutr.** 2025 Feb; 45:31-35. doi: 10.1016/j.clnu.2024.12.016. Epub 2024 Dec 19. (IF 6.6)
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