Curriculum Vitae, Mauro Freccero

Posizione attuale:

- *Prof. di I fascia* afferente al Dipartimento di Chimica dell'Università di Pavia, Area 03 SSD CHIM/06, Chimica Organica.
- *Presidente* del "Centro Grandi Strumenti" (CGS).
- *Membro del Collegio Docenti* del Dottorato in Scienze Chimiche, Farmaceutiche e Innovazione Industriale dell'Università di Pavia dal 2023.

Carriera Professionale ed *incarichi gestionali*

4-2016; ad oggi.	Prof. Ordinario di I fascia di Chimica Organica.
11-2016; ad oggi	*Presidente* del "Centro Grandi Strumenti" dell'Università di Pavia.
1-10-2019; 30-9-2021	*Prorettore alla Ricerca* dell'Università di Pavia.
10-2013; 2-2019.	*Coordinatore del Dottorato* in Scienze Chimiche e Farmaceutiche dell'Università di Pavia.
11-2016; 30-9-2019	*Delegato del Rettore* per le Infrastrutture della Ricerca dell'Università di Pavia
10-2008; 2-2017.	Professore a contratto all'Università Vita-Salute San Raffaele.
10-2002; 3-2016.	Professore di II fascia all'Università di Pavia.
9-1996; 9-2002.	Ricercatore all'Università di Pavia.
1-1996; 9-1996.	Post-dottorato presso il Dipartimento di Chimica dell'Università di Pavia.
8-1994; 12-1995.	Post-dottorato presso il Dipartimento di Chimica della "Dublin City University", (Irlanda).
3-1994; 7-1994.	Chimico R&D, ACS Dobfar S.p.A., fine chemicals, MI.
3-1993; 10-1993.	"Visiting Scientist" al "Dep. of Chemistry & Biochemistry", University of Maryland USA.
1990-1993.	Dottorato in Chimica, al Dipartimento di Chimica dell'Università di Pavia.
1990.	Laurea in Chimica (110/110 cum laude) all' Università di Pavia.

Produzione Scientifica. 136 pubblicazioni, **129** in riviste "peer review", 4 capitoli di libri, 2 brevetti internazionali. [H-index 43, citazioni 5482, google-scholar-citations; H-index 41, citazioni 4511 (Scopus)].

Attività di Ricerca: Sintesi di leganti selettivi per strutture secondarie di acidi nucleici (G4: G-quadruplex), con applicazioni diagnostiche (sonde a fluorescenza) e terapeutiche nell'ambito di nuove terapie antitumorali ed antivirali mirate. Attualmente, MF sta sviluppando leganti selettivi per i G4 contenuti nel genoma dell'HIV-1 e nei genomi della famiglia dei virus Flaviviridae, come farmaci antivirali innovativi. MF ha sviluppato reagenti transienti attivabili [chinone metidi, diazirine, e specie reattive dell'ossigeno (ROS)] mirati alle strutture secondarie del DNA.

Esperienza Scientifica e di coordinamento, progetti:

2009-2015. Project: FIRB-IDEA RBID082ATK_003: "*New drug for anticancer targeted therapy*" Responsabile di Unità: (480 K€).

2011-2013. Project: PRIN 2009MFRKZ8. "Selective Molecular Devices Targeting "G-Quadruplexes" P.I. (250.6 K€).

2013-2016. Project: AIRC IG2013-14708: "*Photoactive molecules targeting telomeric G-quadruplex as multimodal agents in anticancer therapy*" P.I. (265 K€).

2014-2020. Project within the 7th FRAMEWORK PROGRAMME, HIV LTR G-4 (Consolidator Grant, no: 615879): "*G-quadruplexes in the HIV-1 genome: novel targets for the development of selective antiviral drugs*". Second beneficiary of a "Two-beneficiary contract". (PV Funding: 659.6 K€).

2022-2025 PNRR, PE13, *One Health Basic and Translational Research Actions addressing Unmet Needs on Emerging Infectious Diseases.* Coordinatore della Unità di Sintesi Organica a UniPV: (247 K€).

5 Pubblicazioni significative: *J. Med. Chem.* **2021**, 65, 4752 doi/10.1021/acs.jmedchem.1c01905; *Nucleic Acids Res.* **2020**, *48*, 4627 10.1093/nar/gkaa186. *J. Am. Chem. Soc.* **2018**, *140*, 14528 10.1021/jacs.8b05337. *Nucleic Acids Res.*, **2018**, 46, e115 10.1093/nar/gky607. *Angew. Chem. Int. Ed.* **2017**, *56*, 7520 10.1002/anie.201702096. *J. Med. Chem.* **2015**, 58, 9639 10.1021/acs.jmedchem.5b01283.

Collaborazioni Nazionali ed Internazionali consolidate.

Collabora stabilmente con vari gruppi di ricerca in Italia (Prof. S. Richter, Dipartimento di Medicina Molecolare, Università di Padova. Prof. D. Montesarchio, Dipartimento di Scienze Chimiche, Università di Napoli, Federico II; Prof. Stefano Alcaro, Dipartimento di Scienze Farmaceutiche, Università della Magna Grecia, CT). Ha consolidato collaborazioni con gruppi europei in Francia (Dr. M.-P. Teulade-Fichou, e Dr. D. Verga, Institut Curie, Paris), Regno Unito (Dr. S. Ladame, Dep. of Bioengineering, Imperial College, London) Germania (Prof. Dr. Frank Wuerthner, Universitaet Wuerzburg, Center for Nanosystems Chemistry & Institut für Organische Chemie, Wuerzburg, Germany) e Spagna (Dr. Juan C. Morales, Instituto de Parasitologìa y Biomedicina, CSIC, Granada).

Attività didattica

MF svolge attività di insegnamento riguardante il chimismo dei composti organici nel corso di Laurea Magistrale in Scienze Chimiche (Chimica Organica III), nel corso di LT Biotecnologie (Chimica Organica e Laboratorio) e nel corso di laurea in Chimica e Tecnologie Farmaceutiche (Chimica Organica 1). Ha svolto attività di insegnamento anche presso il CdL in Medicina e Chirurgia, Corso Harvey, Insegnamento "Basic Science", Modulo Organic Chemistry (aa. 2015/2016 e 2016/2017), attività didattica nel Dottorato in Scienze Chimiche (fino al XXVIII ciclo), e nel Dottorato in Scienze Chimiche e Farmaceutiche (dal XXIX ciclo), attivati presso l'Università di Pavia.

E' stato Professore a contratto presso l'Università Vita-Salute san Raffaele (MI), dall'a.a. 2008/2009 all'a.a 2015/2016 per il corso di Laurea in Biotecnologie Mediche e Farmaceutiche, "Chimica Inorganica e della Materia Vivente" (II Modulo: Chimica Organica) e dall'a.a. 2010/2011 all'a.a 2014/2015, presso la Facoltà di Medicina e Chirurgia per l'International MD Program Corso di Laurea Magistrale in Medicina e Chirurgia, "Chemistry & Biochemistry"

È ed è stato relatore di numerose tesi di Laurea Specialistica e Magistrale in Chimica, tesi di dottorato e responsabile di progetti post-dottorato.

Attività di "mentoring": 48 tesisti laureandi, 14 dottoranti e 10 post-dottorandi.

Pubblicazioni

136) “Naphthalene Diimide-Tetraazacycloalkane Conjugates Are G-Quadruplex-Based HIV-1 Inhibitors with a Dual Mode of Action”. Nadai, M.; Doria, F.; Frasson, I.; Perrone, R.; Pirota, V.; Bergamaschi, G.; Freccero, M.; Richter, S. N. *ACS Infect. Dis.* **2024**, 10, 489-499. **IF:5.3.**

135) “Studying the Dynamics of a Complex G-Quadruplex System: Insights into the Comparison of MD and NMR Data” Castelli, M., Doria, F., Freccero, M., Colombo, G., Moroni, E. *J. Chem. Theory Comput.,* **2022**, 18, 4515–4528. **IF:6.578.**

134) “Photoactivatable V-Shaped Bifunctional Quinone Methide Precursors as a New Class of Selective G-quadruplex Alkylating Agents” Lena, A.; Benassi, A.; Stasi, M.; Saint-Pierre, C.; Freccero, M.; Gasparutto, D.; Bombard, S.; Doria, F.; Verga, D. *Chem. Eur. J.* **2022**, 28, e202200734. **IF:5.020.**

133) “G-Quadruplex DNA as a Target in Pathogenic Bacteria: Efficacy of an Extended Naphthalene Diimide Ligand and Its Mode of Action”. Cebrián, R., Belmonte-Reche, E., Pirota, V., ...Freccero, M., Doria, F., Kuipers, O.P. *J. Med. Chem.*, **2022**, 65, 4752–4766. **IF: 8.039.**

132) “The Quest for the Right Trade-Off for an Efficient Photoclick Monitoring Reaction. Benassi, A., Pirota, V., Doria, F., Freccero, M.” *ChemPhotoChem*, **2022**, 6, e202100204. **IF:3.679**.

131) “Thiosugar naphthalene diimide conjugates: G-quadruplex ligands with antiparasitic and anticancer activity” Belmonte-Reche E., Benassi A., Peñalver P., Cucchiarini A., Guédin A., Mergny J.L., Rosu F., Gabelica V., Freccero M., Doria F., Morales J.C. *Eur. J. Med. Chem.*, **2022**, 232, 114183. **IF: 8.039.**

130) “Selective Recognition of a Single HIV-1 G-Quadruplex by Ultrafast Small-Molecule Screening”. Scalabrin, M., Nadai, M., Tassinari, M., ...Freccero, M., Richter, S.N.” *Anal. Chem.*, **2021**, 93, 15243–15252. **IF:8.008.**

129) “Synthesis, crystal structure and antibacterial studies of 2,4,6-trimetoxybenzaldehyde based dihydropyrimidine derivatives”. Huseynzada, A.E., Jelsch, C., Akhundzada, H.N., ...Ganbarov, K., Najafov, B. *J. Mol. Struct.*, **2021**, 1241, 130678. **IF: 3.841.**

128) “New perspectives in cancer drug development: computational advances with an eye to design”. Castelli, M., Serapian, S.A., Marchetti, F., ...Freccero, M., Colombo, G. *RSC Med. Chem.*, **2021**, 12, 1491–1502. **IF: 3.470.**

127) “Selective binding and redox-activity on parallel G-quadruplexes by pegylated naphthalene diimide-copper complexes”. Pirota, V., Lunghi, E., Benassi, A., ...Freccero, M., Doria, F. *Molecules, 2021,* 26, 5025. **IF: 4.927.**

126) “Synthesis, crystal structure and antibacterial studies of 2,4,6-trimetoxybenzaldehyde based dihydropyrimidine derivatives”. A.E. Huseynzada, C. Jelsch, H.N. Akhundzada, S. Soudani, C. Ben Nasr, F. Doria, U.A. Hasanova, M. Freccero, Z. Gakhramanova, K. Ganbarov, B. Najafov. *J. Mol. Struc.*, **2021**, 1241, 130678. **IF: 3.841.**

125) “The Binding Pocket at the Interface of Multimeric Telomere G-quadruplexes: Myth or Reality?” F. Manoli, F. Doria, G. Colombo, B. Zambelli, M. Freccero,* I. Manet.* *Chem. Eur. J.* **2021**, 27, 11707–11720. **IF:5.020.**

124) “Synthesis, crystal structure and antibacterial studies of dihydropyrimidines and their regioselectively oxidized products”. Huseynzada, A.E., Jelch, C., Akhundzada, H.V.N., ...Khankishiyeva, R.F., Freccero, M. *RSC Advances*, **2021**, 11, 6312–6329. **IF: 4.036**

123) “On the binding of naphthalene diimides to a human telomeric G-quadruplex multimer model” Pirota, V., Platella, C., Musumeci, D., Benassi, A., Amato J., Pagano B., Colombo G., Freccero M., Doria, F., Montesarchio, D. *Int. J. Biol. Macromol.*, **2021**, 166, 1320–1334. **IF: 8.025**

122) On the interaction of an anticancer trisubstituted naphthalene diimide with G-quadruplexes of different topologies: A structural insight. Platella, C., Trajkovski, M., Doria, F., Freccero, M., Plavec, J., Montesarchio, D. *Nucleic Acids Res.*, **2020**, 48, 12380–12393. **IF: 19.160.**

121) Synthesis, crystal structure and antibacterial properties of 6-methyl-2-oxo-4-(quinolin-2-yl)-1,2,3,4-tetrahydropyrimidine-5-carboxylate Huseynzada, A.E., Jelsch, C., Akhundzada, H.N., ...Hasanova, U.A., Freccero, M. *J. Mol. Struc.*, **2020**, 1219, 128581. **IF: 3.841.**

120) Selective targeting of mutually exclusive DNA G-quadruplexes: HIV-1 LTR as paradigmatic model. Tassinari, M., Zuffo, M., Nadai, M., ...Freccero, M., Richter, S.N. *Nucleic Acids Res.*, 2020, 48, 4627–4642. **IF: 19.160.**

119) Trifunctionalized naphthalene diimides and dimeric analogues as g-quadruplex-targeting anticancer agents selected by affinity chromatography. Platella, C., Pirota, V., Musumeci, D., ...Freccero, M. Montesarchio, D., Doria, F. *Int. J. Mol. Sci.*, 2020, 2, 1964. **IF:6.208**

118) Design of disruptors of the Hsp90–Cdc37 interface D'Annessa, I., Hurwitz, N., Pirota, V., ... Freccero M., Mollapour M., Zaffaroni N., Wolfson, H., Colombo, G. *Molecules*, **2020**, 25, 25. **IF: 4.927.**

117) Towards building blocks for supramolecular architectures based on azacryptates Miljkovic, A., La Cognata, S., Bergamaschi, G., Freccero, M., Poggi, A., Amendola, V. *Molecules*, **2020**, 25, 1733. **IF: 4.927.**

116) The Oncogenic Signaling Pathways in BRAF-Mutant Melanoma Cells are Modulated by Naphthalene Diimide-Like G-Quadruplex Ligands Recagni, M., Tassinari, M., Doria, F., Freccero, M. Folini, M., Richter, S.N. *Cells*, **2019**, 8, 1274. **IF: 7.666.**

115) "Dyads of G-Quadruplex Ligands Triggering DNA Damage Response and Tumour Cell Growth Inhibition at Subnanomolar Concentration" Doria, F., Salvati, E., Pompili, L., Pirota V., D'Angelo C., Manoli F., Nadai M., Richter S. N., Biroccio A., Manet, I., Freccero, M.* *Chem. Eur. J.,* **2019**, 25,11085–11097. **IF:5.020.**

114) "Carbohydrate-naphthalene diimide conjugates as potential antiparasitic drugs: Synthesis, evaluation and structure-activity studies" Zuffo, M.; Stucchi, A.; Campos-Salinas, J.; Cabello-Donayre, M.; Martinez-Garcia, M.; Belmonte-Reche, E.; Perez-Victoria, J. M.; Mergny, J. L.; Freccero, M.; Morales, J. C.; Doria, F. *Eur. J. Med. Chem.* **2019**, *163*, 54-66. **IF: 7.088.**

113) "Synthesis and photocytotoxic activity of [1,2,3]triazolo[4,5-h][1,6]naphthyridines and [1,3]oxazolo[5,4-h][1,6] naphthyridines" Frasson, Ilaria; Spano, Virginia; Di Martino, Simona; Nadai, Matteo; Doria, Filippo; Parrino, Barbara; Carbone, Anna; Cascioferro, Stella Maria; Diana, Patrizia; Cirrincione, Girolamo; Freccero, Mauro; Barraja, Paola; Richter, Sara N.; Montalbano, Alessandra. *Eur. J. Med. Chem.* **2019**, *162,* 176-193. **IF: 7.088.**

112) "A Catalytic and Selective Scissoring Molecular Tool for Quadruplex Nucleic Acids" Nadai, M.; Doria, F.; Scalabrin, M.; Pirota, V.; Grande, V.; Bergamaschi, G.; Amendola, V.; Winnerdy, F. R.; Phan, A. T.; Richter, S. N.; **Freccero, M.** *J. Am. Chem. Soc.* **2018**, *140,* 14528-14532. **IF: 16.383.**

111) "More is not always better: Finding the right trade-off between affinity and selectivity of a G-quadruplex ligand Zuffo, M., Guédin, A., Leriche, E.-D., ...Mergny, J.-L., Freccero, M." *Nucleic Acids Res.*, **2018**, 46, e115. **IF: 19.160.**

110) "Oxadiazole/pyridine-based ligands: a structural tuning for enhancing G-quadruplex binding" Doria, F.; Pirota, V.; Petenzi, M.; Teulade-fichou, M.-P.; Verga, D.; Freccero, M. *Molecules* **2018**, 23, 2162/1-2162/18. **IF: 4.927.**

109) "A fragment-based approach for the development of G-quadruplex ligands: role of the amidoxime moiety" Tassinari, M.; Lena, A.; Butovskaya, E.; Pirota, V.; Nadai, M.; Freccero, M.; Doria, F.; Richter, S. N. *Molecules* **2018**, 23, 1874/1-1874/18. **IF: 4.927.**

108) “Naphthalene diimide-derivatives G-quadruplex ligands induce cell proliferation inhibition, mild telomeric dysfunction and cell cycle perturbation in U251MG glioma cells” Muoio, D.; Berardinelli, F.; Leone, S.; Coluzzi, E.; Di Masi, A.; Doria, F.; Freccero, M.; Sgura, A.; Folini, M.; Antoccia, A. *FEBS J.* **2018**, 285, 3769-3785. **IF: 5.622.**

107) “Down-Regulation of the Androgen Receptor by G-Quadruplex Ligands Sensitizes Castration-Resistant Prostate Cancer Cells to Enzalutamide.” Tassinari, M.; Cimino-Reale, G.; Nadai, M.; Doria, F.; Butovskaya, E.; Recagni, M.; Freccero, M.; Zaffaroni, N.; Richter, S. N.; Folini, M. *J. Med. Chem.* **2018**, *61*, 8625-8638.

106) “Controlled Pore Glass-based oligonucleotide affinity support: towards High Throughput Screening methods for the identification of conformation-selective G-quadruplex ligands”. ChiaraPlatella; Platella, C.; Musumeci, D.; Arciello, A.; Doria, F.; **Freccero, M.**; Randazzo, A.; Amato, J.; Pagano, B.; Montesarchio, D. *Anal. Chim. Acta* **2018**, *1030*, 133-141.

105) “G-quadruplex identification in the genome of protozoan parasites points to naphthalene diimide ligands as new antiparasitic agents” Belmonte-Reche, E.; Martinez-Garcia, M.; Guedin, A.; Zuffo, M.; Arevalo-Ruiz, M.; Doria, F.; Campos-Salinas, J.; Maynadier, M.; Lopez-Rubio, J.-J.; **Freccero, M**; Mergny, J.-L.; Perez-Victoria, J. M.; Morales, J. C. *J. Med. Chem.* **2018**, *61*, 1231-1240.

104) “An Aggregating Amphiphilic Squaraine: A Light-up Probe That Discriminates Parallel G-Quadruplexes” Grande, V.; Doria, F.; **Freccero, M.;*** Würthner, F.* *Angew. Chem. Int. Ed.* **2017**, *56*, 7520-7524.

103) Pyrrolo[3',2':6,7]cyclohepta[1,2-b]pyridines with potent photo-antiproliferative activity. Spano, V.; Giallombardo, D.; Cilibrasi, V.; Parrino, B.; Carbone, A.; Montalbano, A.; Frasson, I.; Salvador, A.; Richter, S. N.; Doria, F.; **Freccero, M.;** Cascioferro, S.; Diana, P.; Cirrincione, G.; Barraja, P. *Eur. J. Med. Chem.* **2017**, *128*, 300-318.

102) “Tuneable coumarin-NDI dyads as G-quadruplex specific light-up probes” Zuffo, M.; Ladame, S.; Doria, F.; **Freccero, M.*** *Sensors and Actuators, B: Chemical* **2017**, *245*, 780-788.

101) “A red-NIR fluorescent dye detecting nuclear DNA G-quadruplexes: in vitro analysis and cell imaging”. Doria, F.; Nadai, M.; Zuffo, M.; Perrone, R.; **Freccero, M.**;* Richter, S. N. *Chem. Comm.* **2017**, *53*, 2268-2271.

100) “Synthesis, Binding Properties, and Differences in Cell Uptake of G-Quadruplex Ligands Based on Carbohydrate Naphthalene Diimide Conjugates”. Arevalo-Ruiz, M.; Doria, F.; Belmonte-Reche, E.; De Rache, A.; Campos-Salinas, J.; Lucas, R.; Falomir, E.; Carda, M.; Perez-Victoria, J. M.; Mergny, J.-L.; **Freccero, M.;*** Morales, J. C.* *Chem. Eur. J.* **2017**, 23, 2157-2164.

99) “G-quadruplex fluorescence sensing by core-extended naphthalene diimides” Zuffo M.; Doria F.; Botti S.; Bergamaschi G.; **Freccero M.*** *Biochim. Biophys. Acta. General Subjects* **2017,** 1861(5_Part_B), 1303-1311.

98) “Conjugation, Substituent, and Solvent Effects on the Photogeneration of Quinone Methides” Doria, F.; Lena, A.; Bargiggia, R.; **Freccero, M.*** *J. Org. Chem.* **2016**, *81*, 3665-3673.

97) “Extended Naphthalene Diimides with Donor/Acceptor Hydrogen-Bonding Properties Targeting G-Quadruplex Nucleic Acids” Doria, F.; Nadai, M.; Costa, G.; Sattin, G.; Gallati, C.; Bergamaschi, G.; Moraca, F.; Alcaro, S.; **Freccero, M.***; Richter, S. N.* *Eur. J. Org. Chem.* **2016**, 28, 4824-4833.

96) “Synthesis and antiproliferative mechanism of action of pyrrolo[3',2':6,7]cyclohepta[1,2-d]pyrimidin-2-amines as singlet oxygen photosensitizers”. Spano, Virginia; Frasson, Ilaria; Giallombardo, Daniele; Doria, Filippo; Parrino, Barbara; Carbone, Anna; Montalbano, Alessandra; Nadai, Matteo; Diana, Patrizia; Cirrincione, Girolamo; Freccero, Mauro; Richter, Sara N.; Barraja, Paola. *Eur. J. Med. Chem.* **2016**, 123, 447-461.

95) “Targeting of RET oncogene by naphthalene diimide-mediated gene promoter G-quadruplex stabilization exerts anti-tumor activity in oncogene-addicted human medullary thyroid cancer. Lopergolo A, Perrone R, Tortoreto M, Doria F, Beretta GL, Zuco V, **Freccero M**, Borrello MG, Lanzi C, Richter SN, Zaffaroni N, Folini M. *Oncotarget* **2016,** 7, 49649-49663.

94) “A bimodal fluorescent and photocytotoxic naphthalene diimide for theranostic applications”. Salvati, Erica; Doria, Filippo; Manoli, Francesco; D'Angelo, Carmen; Biroccio, Annamaria; **Freccero, Mauro***; Manet, Ilse. *Org. Biomol. Chem.* **2016,** *14*, 7238-7249.

93) “Synthesis, Binding and Antiviral Properties of Potent Core-extended Naphthalene Diimides Targeting the HIV-1 Long Terminal Repeat Promoter G-quadruplexes”. Perrone, R.; Doria, F.; Butovskaya, E.; Frasson, I.; Botti, S.; Scalabrin, M.; Lago, L.; Grande, V.; Nadai, M.; **Freccero, M.; *** Richter S. N.; * *J. Med. Chem.* **2015**, 58, 9639-9652.

92) “Red/NIR G-Quadruplex Sensing, Harvesting Blue Light by a Coumarin–Naphthalene Diimide Dyad” Zuffo, M.; Doria, F.; Spalluto, V.; Ladame S.; **Freccero, M.*** *Chem. Eur. J.* **2015**, *21*, 17596-17600.

91) “A naphthalene diimide dyad for fluorescence switch-on detection of G-quadruplexes”. Doria, F.; Oppi, A.; Manoli, F.; Botti, S.; Kandoth, N.; Grande, V.; Manet, I.; **Freccero, M.*** *Chem. Comm.* **2015**, *51*, 9105-9108.

90) “A Photoreactive G-Quadruplex Ligand Triggered by Green Light”. Nadai, M.; Doria, F.; Germani, L.; Richter, S. N.; **Freccero, M.*** *Chem. Eur. J.* **2015**, *21*, 2330-2334.

89) “Naphthalene diimides as red fluorescent pH sensors for functional cell imaging”. Doria, F.; Folini, M.; Grande, V.; Cimino-Reale, G.; Zaffaroni, N.; **Freccero, M.*** *Org. Biomol. Chem.* **2015**, *13*, 570-576.

88) “Assessment of gene promoter G-quadruplex binding and modulation by a naphthalene diimide derivative in tumor cells”. Nadai, M.; Cimino-Reale, G.; Sattin, G.; Doria, F.; Butovskaya, E.; Zaffaroni, N.; **Freccero, M.;** Palumbo, M.; Richter, S. N.; Folini, M. *Int. J. Oncol.* **2015**, *46*, 369-380.

87) “Naphthalene diimides as selective naked-eye chemosensor for copper(II) in aqueous solution”. Doria, F.; Amendola, V.; Grande, V.; Bergamaschi, G.; **Freccero, M.*** *Sensor Actuat. B-Chemical* **2015**, *212*, 137-144.

86) “Aryl ethynyl anthraquinones: a useful platform for targeting telomeric G-quadruplex structures”. Percivalle, C.; Sissi, C.; Greco, M. L.; Musetti, C.; Mariani, A.; Artese, A.; Costa, G.; Perrore, M. L.; Alcaro, S.; **Freccero, M.*** *Org. Biomol. Chem.* **2014**, 12, 3744-3754.

85) “Mechanochemical synthesis of bumetanide-4-aminobenzoic acid molecular cocrystals: A facile and green approach to drug optimization” Bruni, G.; Maietta, M.; Berbenni, V.; Mustarelli, P.; Ferrara, C.; **Freccero, M.;** Grande, V.; Maggi, L.; Milanese, C.; Girella, A. *J. Phys Chem B* **2014**, *118*, 9180-9190.

84) “Quinone Methides as DNA Alkylating Agents: An Overview on Efficient Activation Protocols for Enhanced Target Selectivity” Percivalle, C.; Doria, F.; **Freccero, M.*** *Curr. Org. Chem.* **2014**, *18*, 19-43.

83) “An Experimental and Theoretical Investigation of Loperamide Hydrochloride-Glutaric Acid Cocrystals” Bruni, G.; Maietta, M.; Maggi, L.; Mustarelli, P.; Ferrara, C.; Berbenni, V.; Freccero, M.; Scotti, F.; Milanese, C.; Girella, A. *J. Phys Chem B* **2013**, *117*, 8113-8121.

82) “Hydrosoluble and solvatochromic naphthalene diimides with NIR absorption”. Doria, F.; Gallati, C. M.; **Freccero, M.*** *Org. Biomol. Chem.* **2013**, *11*, 7838-7842.

81) “Targeting Loop Adenines in G-Quadruplex by a Selective Oxirane”. Doria, F.; Nadai, M.; Folini, M.; Scalabrin, M.; Germani, L.; Sattin, G.; Mella, M.; Palumbo, M.; Zaffaroni, N.; Fabris, D.; **Freccero, M.; *** Richter, S. N.* *Chem. Eur. J.* **2013**, *19*, 78–81.

80) “Water-Soluble Naphthalene Diimides as Singlet Oxygen Sensitizers”. Doria, F.; Manet, I.; Grande, V.; Monti, S.; **Freccero, M.*** *J. Org. Chem.* **2013**, *78*, 8065-8073.

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