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| **Articles on peer-reviewed international journals** |
| §: equal contribution1) NO release regulated by doxorubicin as the green light-harvesting antennaFraix, A.;§ Parisi, C.;§ Failla, M..;§ Chegaev, K.; Spyrakis, F.; Lazzarato, L.; Fruttero, R.; Gasco, A.; Sortino, S.Chem. Commun., 2020, 56, 6332-6335.Inside cover page2) A high-performing metal free photoactivatable no donor with a green fluorescent reporterParisi, C.;§ Seggio, M.;§ Fraix, A.;§ Sortino, S.ChemPhotoChem, 2020, Accepted DOI: 10.1002/cptc.2020001003) DNA-targeted NO release photoregulated by green light.Parisi, C.;§ Fraix, A.;§ Guglielmo, S.;§ Spyrakis, F.; Rolando, B.; Lazzarato, L.; Fruttero, R.; Gasco, A.; Sortino, S.Chem. Eur. J., 2020, in press DOI: 10.1002/chem.2020015384) Enhancing doxorubicin anticancer activity with a novel polymeric platform photoreleasing nitric oxideSodano, F.; Cavanagh, R. J.; Pearce, A. K.; Lazzarato, L.; Rolando, B.; Fraix, A.; Abelha, T. F.; Vasey, C. E.; Alexander, C.; Taresco, V.; Sortino, S.Biomaterials Science, 2020, 8, 1329-1344.5) Overcoming doxorubicin resistance with lipid-polymer hybrid nanoparticles photoreleasing nitric oxideFraix, A.;§ Conte, C.;§ Gazzano, E.;§ Riganti, C.; Quaglia, F.; Sortino, S.Molecular Pharmaceutics, 2020, 17, 2135-2144.6) Photodegradation of antibiotics by noncovalent porphyrin-functionalized TiO2 in water for the bacterial antibiotic resistance risk managementGaeta, M.; Sanfilippo, G.; Fraix, A.; Sortino, G.; Barcellona, M.; Oliveri Conti, G. Fragala, M. E.; Ferrante, M.; Purrello, R.; D'Urso,AInt. J. Mol. Sci., 2020, 21, 3775.7) One-step photochemical green synthesis of water-dispersible Ag, Au, and Au@Ag core-shell nanoparticlesPerez-Lloret, M.; Fraix, A.; Petralia, S.; Conoci, S.; Tafani, V.; Cutrone, G.; Vargas-Berenguel, A.; Gref, R.; Sortino, S.Chem. Eur. J., 2019, 25, 14638-14643.8) Visible light-activatable multicargo microemulsions with bimodal photobactericidal action and dual colour fluorescenceFraix, A.;§ Catanzano, O.;§ Di Bari, I.; Conte, C.; Seggio, M.; Parisi, C.; Nostro, A.; Ginestra, G.; Quaglia, F.; Sortino, S. J. Mater. Chem. B, 2019, 7, 5257-5264.9) Fluorescent nitric oxide photodonors based on BODIPY and rhodamine antennaeParisi, C.; Failla, M.; Fraix, A.; Rolando, B.; Gianquinto, E.; Spyrakis, F.; Gazzano, E.; Riganti, C.; Lazzarato, L.; Fruttero, R.; Gasco, A.; Sortino, S.Chem. Eur. J., 2019, 25,11080 –11084.10) Three-bullets" loaded mesoporous silica nanoparticles for combined photo/chemotherapyTessaro, A. L.; Fraix A.; Pedrozo da Silva A. C.; Gazzano E.; Riganti C.; Sortino, S.Nanomaterials, 2019, 9, 823.11) A calix[4]arene-based ternary supramolecular nanoassembly with improved fluoroquinolone photostability and enhanced NO photoreleaseFraix, A.;§ Afonso, D.;§ Consoli,G. M. L.; Sortino, S.Photochem. Photobiol. Sci., 2019, 18, 2216.12) A comprehensive investigation of amino grafted mesoporous silica nanoparticles supramolecular assemblies to host photoactive chlorophyll a in aqueous solutionRizzi, V.; Gubitosa, J.; Fini, P.; Fanelli, F.; Fraix, A.; Sortino, S.; Agostiano, A.; De Cola, L.; Nacci, A.; Cosma, P.J. Photochem. Photobiol. A, 2019, 377, 149-158.13) A molecular hybrid producing simultaneously singlet oxygen and nitric oxide by single photon excitation with green lightParisi, C.; Failla, M.; Fraix, A.; Rescifina, A.; Rolando, B.; Lazzarato, L.; Cardile, V.; Graziano, A. C. E.; Fruttero, R.; Gasco, A.; Sortino, S.Bioorg. Chem., 2019, 85, 18-22.14) A phototherapeutic fluorescent -cyclodextrin branched polymer delivering nitric oxideMalanga, M.; Seggio, M.; Kirejev, V.; Fraix, A.; Di Bari, I.; Fenyvesi, E.; Ericson, M. B.; Sortino, S.Biomater. Sci., 2019, 7, 2272-2276.15) A three-color fluorescent supramolecular nanoassembly of phototherapeutics activable by two-photon excitation with near-infrared lightFraix, A.;§ Kirejev, V.;§ Malanga, M.; Fenyvesi, E.; Beni, S.; Ericson, M. B.; Sortino,S.Chem. Eur.J., 2019, 25, 7091-7095.Cover feature16) Singlet oxygen photo-production by perylene bisimide derivative Langmuir-Schaefer films for photodynamic therapy applicationsSemeraro, P.; Syrgiannis, Z.; Bettini, S.; Giancane, G.; Guerra, F.; Fraix, A.; Bucci, C.; Sortino, S.; Prato, M.; Valli, L.‎J. Colloid. Interface Sci., 2019, 553, 390-401.17) Combination of PDT photosensitizers with NO photodonorsFraix, A.; Sortino, S.Photochem. Photobiol. Sci., 2018, 17, 1709-1727.18) Light-Controlled Simultaneous "On Demand" Release of Cytotoxic Combinations for Bimodal Killing of Cancer CellsTessaro, A. L.; Fraix, A.; Failla, M.; Cardile, V.; Graziano, A. C. E.; Estevao, B. M.; Rescifina, A.; Sortino, S.Chem. Eur. 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Inside back cover page48) Arsonium-containing lipophosphoramides, poly-functional nano-carriers for simultaneous antibacterial action and eukaryotic cell transfection.Le Gall, T.; Berchel, M.; Le Hir, S.; Fraix, A.; Salaün, J.Y.; Férec, C.; Lehn, P.; Jaffrès, P.A.; Montier, T.Adv. Healthcare Mater., 2013, 2, 1513-1524. 49) Cationic lipophosphoramidates with two disulfide motifs: synthesis, behavior in reductive media and gene transfection activity.Fraix, A.; Le Gall, T.; Berchel, M.; Denis, C.; Lehn, P.; Montier, T.; Jaffrès, P.A.Org. Biomol. Chem., 2013, 11, 1650-1658.50) Photoinduced fluorescence activation and nitric oxide release with biocompatible polymer nanoparticles. Deniz, E.; Kandoth, N.; Fraix, A.; Cardile, V.; Graziano, A.C.E.; Lo Furno, D.; Gref, R.; Raymo, F.M.; Sortino, S.Chem. Eur. 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| **Book chapter** |
| 1) Phototherapeutic release of nitric oxide with engineered nanoconstructs.Fraix, A.; Marino, N.; Sortino, S.Top.Curr. Chem.,2015, 370, 225-257. |
| **Patent** |
| 1) Lipothiophosphoramides for gene delivery.Jaffrès, P.A.; Fraix, A.; Montier, T.; Lehn, P.US patent 2010 application, 61/389,959, PCT/EP2011/06742 |
| **Invited talks** |
| 1) Multi-photoresponsive systems for therapeutic applicationsJED3M- Brest (France)19 February 20192) Multi-photoresponsive systems for therapeutic applicationsSeminaraire CEMCA-UMR 6521- Université de Bretagne Occidentale (France)2 may 20183) Utilisation de l’ADN comme médicament, développement de nouveaux vecteurs phospholipidiques.session of the French Academy of Sciences 13 may 2017 |
| **Participations in meeting with an oral contribution:** |
| 1. “Three-bullets” loaded mesoporous silica nanoparticles for combined photo/chemotherapy

Fraix A.; Tessaro, A. L.; Pedrozo da Silva A. C.; Gazzano E.; Riganti C.; Sortino, S.NanoBio&Med 2019 International Conference, Barcelona (Spain), November 2019.1. A three-color fluorescent supramolecular nanoassembly for bimodal phototherapy imaged by two-photon excitation with a single NIR light

Fraix, A.; Kirejev,V.; Malanga, M:; Ericson M: B.; Sortino, S.UK-IT joint meeting on Photochemistry 2019, Lipari (Italy), June 2019.Premio per la migliore presentazione orale 1. Light-regulated NO release as a novel strategy to overcome doxorubicin multidrug resistance

Fraix, A.; Chegaev, K.; Gazzano, E.; Abd-Ellatef, G. E. F.; Blangetti, M.; Rolando, B.; Conoci, S.; Riganti, C.; Fruttero, R.; Gasco, A.; Sortino, S.27th PhotoIUPAC Symposium, Dublin (Ireland), July 2018.1. Light-regulated NO release as a novel strategy to overcome doxorubicin multidrug resistance

Fraix, A.; Chegaev, K.; Gazzano, E.; Abd-Ellatef, G. E. F.; Blangetti, M.; Rolando, B.; Conoci, S.; Riganti, C.; Fruttero, R.; Gasco, A.; Sortino, S.Congresso Congiunto Sicilia-Calabria SCI 2018, Catania (Italy), February 20181. Core-shell polymer nanoparticles for combined photo/chemotherapy of cancers overexpressing CD44-receptor.

Maiolino,S.; Moret,F.; Conte,C.; Fraix,A.; Tirino,P.; Ungaro,F.; Reddi,E.; Sortino,S.; Quaglia, F. Italian Photochemistry meeting 2015, Bologna (Italy), december 2015.1. Polymer nanoparticles with electrostatically loaded multicargo for combined cancer phototherapy.

Fraix, A.; Manet, I.; Ballestri, M.; Guerrini, A.; Dambruoso, P.; Sotgiu, G.; Varchi, G.; Camerin, M.; Coppellotti, O.; Sortino, S.NanoBioApp, Barcelona (Spain), september 2015.1. Multi-photoresponsive supramolecular hydrogels with therapeutic and imaging properties.

Fraix, A.; Gref,R.; Sortino, S.Italian photochemistry meeting, Milan (Italy), november 2014.1. A multifunctional bichromophoric nanoaggregate for fluorescence imaging and simultaneous photogeneration of RNOS and ROS.

Fraix A; Gonçalves A.R.L.; Cardile V.; Graziano A.C.E.; Theodossiou T. A.; Yannakopoulou K.; Sortino S.Italian photochemistry meeting, Potenza (Italy), november 2013.1. An engineered nanoplatform for bimodal anticancer phototherapy with dual color fluorescence detection of sensitizers.

Fraix A.; Kandoth N.; Manet, I.; Cardile, V.; Graziano, A.C.E.; Gref, R.; Sortino, S.26th International Conference on Photochemistry, Leuven (Belgium), july 2013.1. Photoactivated multimodal therapy based on CD-nanoparticles, last microscopic imaging and new systems development.

Fraix A.; Kandoth N.; Manet, I.; Cardile, V.; Graziano, A.C.E.; Gref, R.; Sortino, S.CYCLON 6th Scientific meeting, Paris (France), october 2012.1. Overview of our recent realizations in the development of new cyclodextrin-based nanoparticles for photoactivated multimodal therapy.

Fraix A.; Kandoth N.; Manet, I.; Cardile, V.; Graziano, A.C.E.; Gref, R.; Sortino, S.CYCLON 5th Scientific meeting, Reykjavik (Iceland), june 2012.1. Cyclodextrin-based polymeric nanoparticles for photoactivated multimodal therapy.

Fraix A.; Kandoth N.; Gref R.; Sortino S.CRS Nordic chapter, Reykjavik (Iceland), june 2012.1. New cationic lipids for gene delivery.

Fraix, A.; Montier, T.; Laurent, P.; Yaouanc, J.J.; Couthon-Gourvès, H.; Haelters, J.P.; Lehn, P.; Jaffrès, P.A.Symposium "Sustainable Chemistry & Related Areas", Rennes (France),february 2010.1. Nouveaux phospholipides soufrés pour une application en transfert de gènes.

Fraix, A.; Montier, T.; Yaouanc, J.J.; Couthon-Gourvès, H.; Haelters, J.P.; Lehn, P.; Jaffrès, P.A.Journée de doctorants et post-doctorants en Biologie Santé en Bretagne, Brest (France), june2011.1. Nouveaux phospholipides soufrés pour une application en transfert de gènes.

Fraix, A.; Le Gall, T.; Montier, T.; Yaouanc, J.J.; Couthon-Gourvès, H.; Haelters, J.P.; Lehn, P.; Jaffrès, P.A.Journées scientifiques de la S.C.F. Bretagne-Pays de la Loire, Noirmoutier (France), june 2011.1. Nouveaux phospholipides pour la vectorisation d’acides nucléiques.

Fraix, A.; Le Gall, T.; Montier, T.; Yaouanc, J.J.; Couthon-Gourvès, H.; Haelters, J.P.; Lehn, P.; Jaffrès, P.A.Séminaire de l’UMR 6521, Brest (France), december 2009.1. Nouveaux lipides cationiques pour la vectorisation d’ADN

Fraix, A.; Montier, T.; Laurent, P.; Yaouanc, J.J.; Couthon-Gourvès, H.; Haelters, J.P.; Lehn, P.; Jaffrès, P.A.SECO 46, La Rochelle (France), may 2009.1. Nouveaux lipides cationiques pour la transfection de cellules hépatiques

Fraix, A.; Laurent, V.; Loyer, P.; Jaffrès, P.A.; Yaouanc, J.J.; Montier, T.; Lehn, P.Journées scientifiques de la S.C.F. Bretagne-Pays de la Loire, Trégastel (France), may 2009. |