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| **Articles on peer-reviewed international journals** |
| §: equal contribution  1) NO release regulated by doxorubicin as the green light-harvesting antenna  Fraix, 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 page  2) A high-performing metal free photoactivatable no donor with a green fluorescent reporter  Parisi, C.;§ Seggio, M.;§ Fraix, A.;§ Sortino, S.  ChemPhotoChem, 2020, Accepted DOI: 10.1002/cptc.202000100  3) 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.202001538  4) Enhancing doxorubicin anticancer activity with a novel polymeric platform photoreleasing nitric oxide  Sodano, 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 oxide  Fraix, 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 management  Gaeta, M.; Sanfilippo, G.; Fraix, A.; Sortino, G.; Barcellona, M.; Oliveri Conti, G. Fragala, M. E.; Ferrante, M.; Purrello, R.; D'Urso,A  Int. J. Mol. Sci., 2020, 21, 3775.  7) One-step photochemical green synthesis of water-dispersible Ag, Au, and Au@Ag core-shell nanoparticles  Perez-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 fluorescence  Fraix, 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 antennae  Parisi, 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/chemotherapy  Tessaro, 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 photorelease  Fraix, 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 solution  Rizzi, 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 light  Parisi, 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 oxide  Malanga, 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 light  Fraix, A.;§ Kirejev, V.;§ Malanga, M.; Fenyvesi, E.; Beni, S.; Ericson, M. B.; Sortino,S.  Chem. Eur.J., 2019, 25, 7091-7095.  Cover feature  16) Singlet oxygen photo-production by perylene bisimide derivative Langmuir-Schaefer films for photodynamic therapy applications  Semeraro, 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 photodonors  Fraix, 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 Cells  Tessaro, A. L.; Fraix, A.; Failla, M.; Cardile, V.; Graziano, A. C. E.; Estevao, B. M.; Rescifina, A.; Sortino, S.  Chem. Eur. J., 2018, 24, 7664-7670.  Cover feature  19) Monitoring the release of a NO photodonor from polymer nanoparticles via Forster resonance energy transfer and two-photon fluorescence imaging  Conte, C.;§ Fraix, A.;§ Thomsen, H.; Ungaro, F.; Cardile, V.; Graziano, A. C. E.; Ericson, M. B.; Quaglia, F.; Sortino, S.  J. Mat. Chem. B, 2018, 6, 249-256.  Inside front cover  20) A molecular hybrid for mitochondria-targeted no photodelivery  Sodano, F.; Gazzano, E.; Fraix, A.; Rolando, B.; Lazzarato, L.; Russo, M.; Blangetti, M.; Riganti, C.; Fruttero, R.; Gasco, A.; Sortino, S.  ChemMedChem, 2018, 13, 87-96.  21) Shedding light on surface exposition of poly(ethylene glycol) and folate targeting units on nanoparticles of poly(ε-caprolactone) diblock copolymers: Beyond a paradigm  Venuta, A.; Moret, F.; Dal Poggetto, G.; Esposito, D.; Fraix, A.; Avitabile, C.; Ungaro, F.; Malinconico, M.; Sortino, S.; Romanelli, A.; Laurienzo, P.; Reddi, E.; Quaglia, F.  Eur. J. Pharm. Sci., 2018, 111, 177-185  22) Multivalent mesoporous silica nanoparticles photo-delivering nitric oxide with carbon dots as fluorescence reporters  Afonso, D.; Valetti, S.; Fraix, A.; Bascetta, C.; Petralia, S.; Conoci, S.; Feiler, A.; Sortino, S.  Nanoscale, 2017, 9, 13404-13408.  23) Novel sigma receptor ligand-nitric oxide photodonors: molecular hybrids for double-targeted antiproliferative effect  Amata, E.; Dichiara, M.; Arena, E.; Pittala, V.; Pistara, V.; Cardile, V.; Graziano, A. C. E.; Fraix, A.; Marrazzo, A.; Sortino, S.; Prezzavento, O.  J. Med. Chem., 2017, 60, 9531-9544.  24) Poly(ethylene oxide)/hydroxypropyl-β-cyclodextrin films for oromucosal delivery of hydrophilic drugs  D'Angelo, I.; Fraix, A.; Ungaro, F.; Quaglia, F.; Miro, A.  Int. J. Pharm., 2017, 531, 606-613.  25) A nonmetal-containing nitric oxide donor activated with single-photon green light  Blangetti, M.;§ Fraix, A.;§ Lazzarato, L.; Marini, E.; Rolando, B.; Sodano, F.; Fruttero, R.; Gasco, A.; Sortino, S.  Chem. Eur. J., 2017, 23, 9026-9029.  26) Light-regulated NO release as a novel strategy to overcome doxorubicin multidrug resistance.  Chegaev, K.;§ Fraix, A.;§ Gazzano, E.; Abd-Ellatef, G. E. F.; Blangetti, M.; Rolando, B.; Conoci, S.; Riganti, C.; Fruttero, R.; Gasco, A.; Sortino, S.  ACS Med. Chem. Lett., 2017, 8, 361-365.  Cover page  27) Pluronic P123/F127 mixed micelles delivering sorafenib and its combination with verteporfin in cancer cells.  Pellosi, D. S.; Moret, F.; Fraix, A.; Marino, N.; Maiolino, S.; Gaio, E.; Hioka, N.; Reddi, E.; Sortino, S.; Quaglia, F.  Int. J. Nanomedicine, 2016, 11, 4479-4494.  28) Supramolecular activation of the photodynamic properties of porphyrinoid photosensitizers by calix[4]arene nanoassemblies.  Di Bari, I.; Fraix, A.; Picciotto, R.; Blanco, A. R.; Petralia, S.; Conoci, S.; Granata, G.; Consoli, G. M. L.; Sortino, S.  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Dolansky, J.; Henke, P.; Kubat, P.; Fraix, A.; Sortino, S.; Mosinger, J.  ACS Appl. Mater. Inter., 2015, 7, 22980-22989.  36) Rose bengal-photosensitized oxidation of 4-thiothymidine in aqueous medium: evidence for the reaction of the nucleoside with singlet state oxygen.  Rizzi, V.; Losito, I.; Ventrella, A.; Fini, P.; Fraix, A.; Sortino, S.; Agostiano, A.; Longobardi, F.; Cosma, P.  Phys. Chem. Chem. Phys., 2015, 17, 26307-26319.  37) Synthesis, characterization and photo-bactericidal activity of silanized xanthene-modified bacterial cellulose membranes.  Hettegger, H.; Gorfer, M.; Sortino, S.; Fraix, A.; Bandian, D.; Rohrer, C.; Harreither, W.; Potthast, A.; Rosenau, T.  Cellulose, 2015, 22, 3291-3304.  38) Supramolecular nanoreactors for intracellular singlet-oxygen sensitization.  Swaminathan, S.; Fowley, C. Thapaliya, E. R.; McCaughan, B.; Tang, S.; Fraix, A.; Captain, B.; Sortino, S.; Callan, J. F.; Raymo, F. M.  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Back Cover Page.  47) 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.  Chem. Commun., 2013, 49, 4459-4461.  Inside back cover page  48) 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.  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Chem., 2012, 10, 2051-2058.  54) Cationic lipo-thiophosphoramidates for in vitro gene delivery: synthesis, physico-chemical characterizations and transfection assays - comparison with lipo-phosphoramidates.  Fraix, A.; Montier, T.; Carmoy, N.; Loizeau, D.; Burel-Deschamps, L.; Le Gall, T.; Giamarchi, P.; Couthon-Gourvès, H.; Haelters, J.P.; Lehn, P.; Jaffrès, P.A.  Org. Biomol. Chem., 2011, 9, 2422-2432.  55) Construction of monoanionicS,N,S-pincer ligand with a pyrrole core by sequential [1,2] phospho-fries rearrangement. Characterization of a palladium and silver coordination complexes.  Fraix, A.; Lutz, M.; Spek, A. L.; Klein Gebbink, R. J. M.; van Koten, G.; Salaün, J.Y.; Jaffrès, P.A.  Dalton Trans., 2010, 39, 2942-2946.  56) Highly efficient gene transfer into hepatocyte-like HepaRG cells: new means for drug metabolism and toxicity studies.  Laurent, V.; Fraix, A.; Montier, T.; Cammas-Marion, S.; Ribault, C.; Benvegnu, T.; Jaffrès, P.A.; Loyer, P.  Biotechnol. 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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 applications  JED3M- Brest (France)  19 February 2019  2) Multi-photoresponsive systems for therapeutic applications  Seminaraire CEMCA-UMR 6521- Université de Bretagne Occidentale (France)  2 may 2018    3) 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 2018   1. 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. |