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## Publications clés

### Année de publication : 2020

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Rahima Chenoufi, Ngoc-Duong Trinh, Françoise Simon, Guillaume Bordeau, Delphine Naud-Martin, Albert Moussaron, Bertrand Cinquin, Houcine Bougherara, Béatrice Rambaud, Patrick Tauc, Céline Frochot, Marie-Paule Teulade-Fichou, Florence Mahuteau-Betzer & Eric Deprez (2020 Apr 23)

**Interplay between cellular uptake, intracellular localization and the cell death mechanism in triphenylamine-mediated photoinduced cell death**

*Scientific Reports* : 10 : 6881 : [DOI : 10.1038/s41598-020-63991-9](https://doi.org/10.1038/s41598-020-63991-9)

### Année de publication : 2019

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Morgan Pellerano, Delphine Naud-Martin, Florence Mahuteau-Betzer, Marie Morille, May Catherine Morris (2019 Feb 15)

**Fluorescent biosensor for detection of the R248Q aggregation-prone mutant of p53.**

*Chembiochem : a European journal of chemical biology* : 20 : 605-613 : [DOI :](https://doi.org/10.1002/cbic.201800531)

[10.1002/cbic.201800531](https://doi.org/10.1002/cbic.201800531)

Pauline Gilson, Morgane Couvet, Laetitia Vanwonderghem, Maxime Henry, Julien Vollaire, Vladimir Baulin, Marco Werner, Anna Orłowska, Véronique Jossierand, Florence Mahuteau-Betzer, Laurence Lafanechère, Jean-Luc Coll, Benoit Busser, Amandine Hurbin (2019 Feb 1)

**The pyrrolopyrimidine colchicine-binding site agent PP-13 reduces the metastatic dissemination of invasive cancer cells *in vitro* and *in vivo*.**

*Biochemical pharmacology* : 160 : 1-13 : [DOI : S0006-2952\(18\)30503-3](https://doi.org/10.1016/j.bcp.2018.12.003)

Delphine Naud-Martin, Corinne Landras-Guetta, Daniela Verga, Deepanjan Ghosh, Sylvain Achelle, Florence Mahuteau-Betzer, Sophie Bombard, Marie-Paule Teulade-Fichou (2019 Jan 26)

**Selectivity of Terpyridine Platinum Anticancer Drugs for G-quadruplex DNA.**

*Molecules (Basel, Switzerland)* : 24 : 404 : [DOI : 10.3390/molecules24030404](https://doi.org/10.3390/molecules24030404)

Année de publication : 2018

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Luis M.G. Abegão, Ruben D Fonseca, Tárcius N Ramos, Florence Mahuteau-Betzer, Sandrine FIGUEL, José J. Rodrigues Jr, Cleber R. Mendonca, Sylvio Canuto, Daniel Luis Silva, and Leonardo De Boni (2018 Apr 12)

**Oxazole dyes with potential for photoluminescence bioprobes: A two-Photon absorption study**

*The Journal of Physical Chemistry C* : 122 : 10526-10534 : [DOI : 10.1021/acs.jpcc.8b01904](https://doi.org/10.1021/acs.jpcc.8b01904)

Hammerer F., Poyer F., Fourmois L., Chen S., Garcia G., Teulade-Fichou M.P., Maillard P., Mahuteau-Betzer F. (2018 Jan 1)

**Mitochondria-targeted cationic porphyrin-triphenylamine hybrids for enhanced two-photon photodynamic therapy**

*Bioorganic & Medicinal Chemistry* : 26 : 107-118 : [DOI : 10.1016/j.bmc.2017.11.024](https://doi.org/10.1016/j.bmc.2017.11.024)

Année de publication : 2017

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Pauline Gilson, Fernando Josa-Prado, Claire Beauvineau, Delphine Naud-Martin, Laetitia Vanwonterghem, Florence Mahuteau-Betzer, Alexis Moreno, Pierre Falson, Laurence Lafanechère, Véronique Frachet, Jean-Luc Coll, Jose Fernando Díaz, Amandine Hurbin, Benoit Busser (2017 Sep 2)

**Identification of pyrrolopyrimidine derivative PP-13 as a novel microtubule-destabilizing agent with promising anticancer properties.**

*Scientific reports* : 7 : 10209 : [DOI : 10.1038/s41598-017-09491-9](https://doi.org/10.1038/s41598-017-09491-9)

Claire Beauvineau, Corinne Guetta, Marie-Paule Teulade-Fichou, Florence Mahuteau-Betzer (2017 Aug 14)

**PhenDV, a turn-off fluorescent quadruplex DNA probe for improving the sensitivity of drug screening assays**

*Organic & Biomolecular Chemistry* : 15 : 7117-7121 : [DOI : 10.1039/c7ob01705g](https://doi.org/10.1039/c7ob01705g)

Marie-Paule Teulade-Fichou, Joël Lefebvre, Corinne Guetta, Florent Poyer, Florence Mahuteau-Betzer (2017 Jul 13)

**Copper-alkyne complexation is responsible for the Nucleolar Localisation of Quadruplex Nucleic Acid Drugs Labelled by Click Chemistry.**

*Angewandte Chemie (International ed. in English)* : 56 : 11365-11369 : [DOI : 10.1002/anie.201703783](https://doi.org/10.1002/anie.201703783)

Chennoufi R., Mahuteau-Betzer F., Tauc P., Teulade-Fichou M.P., Deprez E. (2017 Jun 18)

**Triphenylamines Induce Cell Death Upon 2-Photon Excitation**

*Molecular Imaging* : 16 : 1-4 : [DOI : 10.1177/1536012117714164](https://doi.org/10.1177/1536012117714164)

Morgan Pellerano, Sergey Tcherniuk, Corine Perals, Thi Nhu Ngoc Van, Elsa Garcin, Florence Mahuteau-Betzer, Marie-Paule Teulade-Fichou, May C Morris (2017 Apr 22)

**Targeting Conformational Activation of CDK2 Kinase.**

*Biotechnology journal* : 12 : 1600531 : [DOI : 10.1002/biot.201600531](https://doi.org/10.1002/biot.201600531)

Gilles Galvani, K Harsha Vardhan Reddy, Claire Beauvineau, NourEddine Ghermani, Florence Mahuteau-Betzer, Mouad Alami, Samir Messaoudi (2017 Feb 17)

**Conversion of 3-Bromo-2H-coumarins to 3-(Benzofuran-2-yl)-2H-coumarins under Palladium Catalysis: Synthesis and Photophysical Properties Study.**

*Organic letters* : 19 : 910-913 : [DOI : 10.1021/acs.orglett.7b00069](https://doi.org/10.1021/acs.orglett.7b00069)

J Santo, C Lopez-Herrera, C Apolit, Y Bareche, L Lapasset, C Chavey, S Capozzi, F Mahuteau-Betzer, R Najman, P Fornarelli, I C Lopez-Mejía, G Béranger, F Casas, E-Z Amri, B Pau, D Scherrer, J Tazi (2017 Feb 14)

**Pharmacological modulation of LMNA SRSF1-dependent splicing abrogates diet-induced obesity in mice.**

*International journal of obesity* : 41 : 390-401 : [DOI : 10.1038/ijo.2016.220](https://doi.org/10.1038/ijo.2016.220)

**Année de publication : 2016**

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Morgan Pellerano, Delphine Naud-Martin, Marion Peyressatre, Camille Prével, Marie-Paule Teulade-Fichou, May Morris, Florence Mahuteau-Betzer (2016 Mar 17)

**TP-2Rho Is a Sensitive Solvatochromic Red-Shifted Probe for Monitoring the Interactions between CDK4 and Cyclin D.**

*Chembiochem : a European journal of chemical biology* : 17 : 737-744 : [DOI : 10.1002/cbic.201500641](https://doi.org/10.1002/cbic.201500641)

Rahima Chennoufi, Houcine Bougherara, Nathalie Gagey-Eilstein, Blaise Dumat, Etienne Henry, Frédéric Subra, Stéphanie Bury-Moné, Florence Mahuteau-Betzer, Patrick Tauc, Marie-Paule Teulade-Fichou, Eric Deprez (2016 Mar 8)

**Mitochondria-targeted Triphenylamine Derivatives Activatable by Two-Photon Excitation for Triggering and Imaging Cell Apoptosis.**

*Scientific reports* : 6 : 21458 : [DOI : 10.1038/srep21458](https://doi.org/10.1038/srep21458)

Blaise Dumat, Elodie Faurel-Paul, Pauline Fornarelli, Nicolas Saettel, Germain Metgé, Céline Fiorini-Debuisschert, Fabrice Charra, Florence Mahuteau-Betzer, Marie-Paule Teulade-Fichou (2016 Jan 7)

**Influence of the oxazole ring connection on the fluorescence of oxazolyl-**

**triphenylamine biphotonic DNA probes.**

*Organic & biomolecular chemistry* : 14 : 358-370 : [DOI : 10.1039/c5ob02225h](https://doi.org/10.1039/c5ob02225h)

Année de publication : 2015

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R Chennoufi, H Bougherara, N Gagey-Eilstein, B Dumat, E Henry, F Subra, F Mahuteau-Betzer, P Tauc, M-P Teulade-Fichou, E Deprez (2015 Oct 15)

**Differential behaviour of cationic triphenylamine derivatives in fixed and living cells: triggering and imaging cell death.**

*Chemical communications (Cambridge, England)* : 51 : 14881-14884 : [DOI : 10.1039/c5cc05970d](https://doi.org/10.1039/c5cc05970d)

Guillaume Kellermann, Markus Kaiser, Florent Dingli, Olivier Lahuna, Delphine Naud-Martin, Florence Mahuteau-Betzer, Damarys Loew, Evelyne Ségal-Bendirdjian, Marie-Paule Teulade-Fichou, Sophie Bombard (2015 Sep 3)

**Identification of human telomerase assembly inhibitors enabled by a novel method to produce hTERT.**

*Nucleic acids research* : 43 : e99 : [DOI : 10.1093/nar/gkv425](https://doi.org/10.1093/nar/gkv425)

Kathleen Solmont, Hamza Boufroua, Amel Souibgui, Pauline Fornarelli, Anne Gaucher, Florence Mahuteau-Betzer, Béchir Ben Hassine, Damien Prim (2015 May 13)

**Divergent strategy for the synthesis of original dihydrobenzo- and dihydronaphtho-acridines.**

*Organic & biomolecular chemistry* : 13 : 6269-6277 : [DOI : 10.1039/c5ob00456j](https://doi.org/10.1039/c5ob00456j)

Florence Mahuteau-Betzer (2015 May 12)

**The French National Compound Library: advances and future prospects.**

*Médecine sciences : M/S* : 31 : 417-422 : [DOI : 10.1051/medsci/20153104016](https://doi.org/10.1051/medsci/20153104016)

Noëlie Campos, Renier Myburgh, Aude Garcel, Audrey Vautrin, Laure Lapasset, Erika Schläpfer Nadal, Florence Mahuteau-Betzer, Romain Najman, Pauline Fornarelli, Katjana Tantale, Eugénia Basyuk, Martial Séveno, Julian P Venables, Bernard Pau, Edouard Bertrand, Mark A Wainberg, Roberto F Speck, Didier Scherrer, Jamal Tazi (2015 Apr 19)

**Long lasting control of viral rebound with a new drug ABX464 targeting Rev - mediated viral RNA biogenesis.**

*Retrovirology* : 12 : 30 : [DOI : 10.1186/s12977-015-0159-3](https://doi.org/10.1186/s12977-015-0159-3)

Année de publication : 2014

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Delphine Naud-Martin, Xavier Martin-Benlloch, Florent Poyer, Florence Mahuteau-Betzer, Marie-Paule Teulade-Fichou (2014 Feb 1)

**Acri-2,7-Py, a bright red-emitting DNA probe identified through screening of a**

**distyryl dye library.**

*Biotechnology journal* : 9 : 301-310 : [DOI : 10.1002/biot.201300197](https://doi.org/10.1002/biot.201300197)

**Année de publication : 2013**

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Blaise Dumat, Guillaume Bordeaux, Elodie Faurel-Paul, Florence Mahuteau-Betzer, Nicolas Saettel, Germain Metge, Céline Fiorini-Debuisschert, Fabrice Charra, Marie-Paule Teulade-Fichou (2013 Aug 20)

**DNA switches on the two-photon efficiency of an ultrabright triphenylamine fluorescent probe specific of AT regions.**

*Journal of the American Chemical Society* : 135 : 12697-12706 : [DOI : 10.1021/ja404422z](https://doi.org/10.1021/ja404422z)

Souibgui A., Gaucher A., Marrot J., Aloui F., Mahuteau-Betzer F., Ben Hassine B., Prim D. (2013 Jul 1)

**A Flexible Strategy Towards Thienyl-, Oxazolyl- and Pyridyl-Fused Fluorenones**

*European Journal of Organic Chemistry* : 2013 : 4515-4522 : [DOI : 10.1002/ejoc.201300233](https://doi.org/10.1002/ejoc.201300233)

Mahuteau-Betzer F., Piguel S. (2013 Jun 12)

**Synthesis and evaluation of photophysical properties of Series of  $\pi$ -conjugated oxazole dyes**

*Tetrahedron Letters* : 54 : 3188-3193 : [DOI : https://doi.org/10.1016/j.tetlet.2013.04.037](https://doi.org/10.1016/j.tetlet.2013.04.037)

**Année de publication : 2012**

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Ada Collura, Laetitia Marisa, Diletta Trojan, Olivier Buhard, Anaïs Lagrange, Arnaud Saget, Marianne Bombléd, Patricia Méchighel, Mira Ayadi, Martine Muleris, Aurélien de Reynies, Magali Svrcek, Jean-François Fléjou, Jean-Claude Florent, Florence Mahuteau-Betzer, Anne-Marie Faussat, Alex Duval (2012 Sep 26)

**Extensive characterization of sphere models established from colorectal cancer cell lines.**

*Cellular and molecular life sciences : CMLS* : 2 : 729-42 : [DOI : 10.1007/s00018-012-1160-9](https://doi.org/10.1007/s00018-012-1160-9)

Blaise Dumat, Guillaume Bordeaux, Ana I Aranda, Florence Mahuteau-Betzer, Yara El Harfouch, Germain Metgé, Fabrice Charra, Céline Fiorini-Debuisschert, Marie-Paule Teulade-Fichou (2012 May 23)

**Vinyl-triphenylamine dyes, a new family of switchable fluorescent probes for targeted two-photon cellular imaging: from DNA to protein labeling.**

*Organic & biomolecular chemistry* : 30 : 6054-6061 : [DOI : 10.1039/c2ob25515d](https://doi.org/10.1039/c2ob25515d)

**Année de publication : 2011**

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B Dumat, G Bordeaux, E Faurel-Paul, F Mahuteau-Betzer, N Saettel, M Bombléd, G Metgé, F

Charra, C Fiorini-Debuisschert, M-P Teulade-Fichou (2011 Jun 16)

**N-phenyl-carbazole-based two-photon fluorescent probes: strong sequence dependence of the duplex vs quadruplex selectivity.**

*Biochimie* : 93 : 1209-1218 : [DOI : 10.1016/j.biochi.2011.05.035](https://doi.org/10.1016/j.biochi.2011.05.035)

Année de publication : 2009

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François Besselièvre, Sabrina Lebrequier, Florence Mahuteau-Betzer, Sandrine Piguel (2009 Sep 3)

**C-H Bond Activation: A Versatile Protocol for the Direct Arylation and Alkenylation of Oxazoles**

*Synthesis* : 2009 : 3511-3518 : [DOI : 10.1055/s-0029-1216987](https://doi.org/10.1055/s-0029-1216987)

Année de publication : 2008

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Besselièvre F., Piguel S., Mahuteau-Betzer F., Grierson D.S. (2008 Aug 23)

**Stereoselective Direct Copper-Catalyzed Alkenylation of Oxazoles with Bromoalkenes**

*Organic Letters* : 10 : 4029-4032 : [DOI : 10.1021/ol801512q](https://doi.org/10.1021/ol801512q)

François Besselièvre, Florence Mahuteau-Betzer, David S Grierson, Sandrine Piguel (2008 Mar 20)

**Ligandless microwave-assisted Pd/Cu-catalyzed direct arylation of oxazoles**

*The Journal of organic chemistry* : 3278-3280 : [DOI : 10.1021/jo7027135](https://doi.org/10.1021/jo7027135)