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Publications clés

Année de publication : 2020

Rahima Chennoufi, 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)

Abhijit Saha, Patricia Duchambon, Vanessa Masson, Damarys Loew, Sophie Bombard, Marie-Paule Teulade-Fichou (2020 Mar 20)

Nucleolin Discriminates Drastically between Long-Loop and Short-Loop Quadruplexes.

Biochemistry : 59 : 1261-1272 : [DOI : 10.1021/acs.biochem.9b01094](https://doi.org/10.1021/acs.biochem.9b01094)

Paudel B.P., Moye A.L., Assi H.A., El-Khoury R., Cohen S.B., Birrento M.L., Samosorn S., Intharapichai K., Tomlinson C.G., Teulade-Fichou M.P., Gonz'alez C., Beck J.L., Damha M.J., van Oijen A.M., Bryan T.M. (2020 Feb 27)

A mechanism for the extension and unfolding of parallel telomeric G-quadruplexes by human telomerase at single-molecule resolution

bioRxiv : [DOI : 10.1101/2020.02.26.965269](https://doi.org/10.1101/2020.02.26.965269)

Candidats médicaments et sondes pour les structures secondaires des acides nucléiques

Année de publication : 2019

Angrand G., Quillévéré A., Loaëc N., Daskalogianni C., Granzhan A., Teulade-Fichou M.P., Fahraeus R., Prado Martins R., Blondel M. (2019 Sep 1)

Sneaking Out for Happy Hour: Yeast-Based Approaches to Explore and Modulate Immune Response and Immune Evasion

Genes : 10 : 667-689 : [DOI : 10.3390/genes10090667](https://doi.org/10.3390/genes10090667)

Michaela Krafcikova, Simon Dzatko, Coralie Caron, Anton Granzhan, Radovan Fiala, Tomas Loja, Marie-Paule Teulade-Fichou, Tomas Fessler, Robert Hänsel-Hertsch, Jean-Louis Mergny, Silvie Foldynova-Trantirkova, Lukas Trantirek (2019 Aug 9)

Monitoring DNA-Ligand Interactions in Living Human Cells Using NMR Spectroscopy

Journal of the American Chemical Society : 141 : 13281-13285 : [DOI : 10.1021/jacs.9b03031](https://doi.org/10.1021/jacs.9b03031)

Xiao Xie, Michela Zuffo, Marie-Paule Teulade-Fichou, Anton Granzhan (2019 Aug 6)

Identification of optimal fluorescent probes for G-quadruplex nucleic acids through systematic exploration of mono- and distyryl dye libraries

Beilstein Journal of Organic Chemistry : 15 : 1872-1889 : [DOI : 10.3762/bjoc.15.183](https://doi.org/10.3762/bjoc.15.183)

Emilia Puig Lombardi, Allyson Holmes, Daniela Verga, Marie-Paule Teulade-Fichou, Alain Nicolas, Arturo Londoño-Vallejo (2019 Jul 9)

Thermodynamically stable and genetically unstable G-quadruplexes are depleted in genomes across species.

Nucleic acids research : 47 : 6098-6113 : [DOI : 10.1093/nar/gkz463](https://doi.org/10.1093/nar/gkz463)

Oksana Reznichenko, Alicia Quillévéré, Rodrigo Prado Martins, Nadège Loaëc, Hang Kang, María José Lista, Claire Beauvineau, Jorge González-García, Régis Guillot, Cécile Voisset, Chrysoula Daskalogianni, Robin Fåhraeus, Marie-Paule Teulade-Fichou, Marc Blondel, Anton Granzhan (2019 May 23)

Novel cationic bis(acylhydrazones) as modulators of Epstein-Barr virus immune evasion acting through disruption of interaction between nucleolin and G-quadruplexes of EBNA1 mRNA

European Journal of Medicinal Chemistry : 178 : 13-29 : [DOI : 10.1016/j.ejmech.2019.05.042](https://doi.org/10.1016/j.ejmech.2019.05.042)

Katerina Duskova, Jérémy Lamarche, Souheila Amor, Coralie Caron, Nicolas Queyriaux, Marie Gaschard, Marie-Jose Penouilh, Guillaume De Robillard, Dominique Delmas, Charles H Devillers, Anton Granzhan, Marie-Paule Teulade-Fichou, Murielle Chavarot-Kerlidou, Bruno Therrien, Sébastien Britton, David Monchaud (2019 Apr 3)

Identification of three-way DNA junction ligands through screening of chemical libraries and validation by complementary in vitro assays.

Journal of Medicinal Chemistry : 62 : 4456-4466 : [DOI : 10.1021/acs.jmedchem.8b01978](https://doi.org/10.1021/acs.jmedchem.8b01978)

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Paul D., Marchand A., Verga D., Bombard S., Teulade-Fichou M.P., Rosu F., Gabelica V. (2019 Feb 28)

Probing Ligand and Cation Binding Sites in G-Quadruplex Nucleic Acids by Mass Spectrometry and Electron Photodetachment Dissociation Sequencing

Analyst : 144 : 3518-3524 : [DOI : 10.1039/C9AN00398C](https://doi.org/10.1039/C9AN00398C)

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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In Cellulo Protein-mRNA Interaction Assay to Determine the Action of G-Quadruplex-Binding Molecules

Molecules : 23 : 3124 : [DOI : 10.3390/molecules23123124](https://doi.org/10.3390/molecules23123124)

Verga D., Nguyen C.H., Dakir M., Coll J.L., Teulade-Fichou M.P., Molla A. (2018 Nov 20)

Polyheteroaryl Oxazole/Pyridine-based compounds selected in vitro as G-quadruplex ligands inhibit Rock kinase and exhibit antiproliferative activity

Journal of Medicinal Chemistry : 61 : 10502-10518 : [DOI : 10.1021/acs.jmedchem.8b01023](https://doi.org/10.1021/acs.jmedchem.8b01023)

Hee-Sheung Lee, Mar Carmena, Mikhail Liskovykh, Emma Peat, Jung-Hyun Kim, Mitsuo Oshimura, Hiroshi Masumoto, Marie-Paule Teulade-Fichou, Yves Pommier, William C Earnshaw, Vladimir Larionov, Natalay Kouprina (2018 Nov 1)

Systematic Analysis of Compounds Specifically Targeting Telomeres and Telomerase for Clinical Implications in Cancer Therapy.

Cancer research : 78 : 6282-6296 : [DOI : 10.1158/0008-5472.CAN-18-0894](https://doi.org/10.1158/0008-5472.CAN-18-0894)

Abhijit Saha, Sophie Bombard, Anton Granzhan, Marie-Paule Teulade-Fichou (2018 Oct 27)

Probing of G-Quadruplex Structures via Ligand-Sensitized Photochemical Reactions in ^{Br}U-Substituted DNA.

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Filippo Doria, Valentina Pirota, Michele Petenzi, Marie-Paule Teulade-Fichou, Daniela Verga, Mauro Freccero (2018 Aug 30)

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Xiao Xie, Oksana Reznichenko, Ludovic Chaput, Pascal Martin, Marie-Paule Teulade-Fichou, Anton Granzhan (2018 Aug 27)

Topology-Selective Fluorescent « Light-Up » Probes for G-Quadruplex DNA Based on Photoinduced Electron Transfer.

Chemistry - A European Journal : 24 : 12638-12651 : [DOI : 10.1002/chem.201801701](https://doi.org/10.1002/chem.201801701)

Lina Saker, Samar Ali, Caroline Masserot, Guillaume Kellermann, Joel Poupon, Marie-Paule Teulade-Fichou, Evelyne Ségal-Bendirdjian, Sophie Bombard (2018 Jul 3)

Platinum Complexes Can Bind to Telomeres by Coordination.

International journal of molecular sciences : 19 : 1951 : [DOI : 10.3390/ijms19071951](https://doi.org/10.3390/ijms19071951)

Aaron Mendez-Bermudez, Liudmyla Lototska, Serge Bauwens, Marie-Josèphe Giraud-Panis, Olivier Croce, Karine Jamet, Agurtzane Irizar, Macarena Mowinckel, Stephane Koundrioukoff, Nicolas Nottet, Genevieve Almouzni, Marie-Paule Teulade-Fichou, Michael Schertzer, Mylène Perderiset, Arturo Londoño-Vallejo, Michelle Debatisse, Eric Gilson, Jing Ye (2018 May 3)

Genome-wide Control of Heterochromatin Replication by the Telomere Capping Protein TRF2

Molecular cell : 70 : 449-461.e5 : [DOI : 10.1016/j.molcel.2018.03.036](https://doi.org/10.1016/j.molcel.2018.03.036)

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

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TWJ-Screen: an isothermal screening assay to assess ligand/DNA junction interactions in vitro

Nucleic Acids Research : 46 : e16 : [DOI : 10.1093/nar/gkx1118](https://doi.org/10.1093/nar/gkx1118)

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The G-Quadruplex-Specific RNA Helicase DHX36 Regulates p53 Pre-mRNA 3'-End Processing Following UV-Induced DNA Damage.

Journal of Molecular Biology : 429 : 3121-3131 : [DOI : 10.1016/j.jmb.2016.11.033](https://doi.org/10.1016/j.jmb.2016.11.033)

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Candidats médicaments et sondes pour les structures secondaires des acides nucléiques**A yeast model for the mechanism of the Epstein-Barr virus immune evasion identifies a new therapeutic target to interfere with the virus stealthiness**

MICROBIAL CELL : 4 : 305-307 : [DOI : 10.15698/mic2017.09.590](https://doi.org/10.15698/mic2017.09.590)

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)

Jiyeon Choi, Mai Xu, Matthew M Makowski, Tongwu Zhang, Matthew H Law, Michael A Kovacs, Anton Granzhan, Wendy J Kim, Hemang Parikh, Michael Gartside, Jeffrey M Trent, Marie-Paule Teulade-Fichou, Mark M Iles, Julia A Newton-Bishop, D Timothy Bishop, Stuart MacGregor, Nicholas K Hayward, Michiel Vermeulen, Kevin M Brown (2017 Aug 1)

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Chemical Imaging by NanoSIMS Provides High- Resolution Localization of the G-Quadruplex Interactive Drug (Br)-PhenDC3 on Human Chromosomes

Journal of Molecular Biology and Molecular Imaging : 4 : 1029

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

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

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Nucleolin directly mediates Epstein-Barr virus immune evasion through binding to G-quadruplexes of EBNA1 mRNA.

Nature communications : 8 : 16043 : [DOI : 10.1038/ncomms16043](https://doi.org/10.1038/ncomms16043)

Razan Charif, Christine Granotier-Beckers, Hélène Charlotte Bertrand, Joël Poupon, Evelyne Ségal-Bendirdjian, Marie-Paule Teulade-Fichou, François D. Boussin, Sophie Bombard (2017 Jun 28)

Candidats médicaments et sondes pour les structures secondaires des acides nucléiques**Association of a Platinum Complex to a G-Quadruplex Ligand Enhances Telomere Disruption**

Chemical Research in Toxicology : 30 : 1629-1640 : [DOI : 10.1021/acs.chemrestox.7b00131](https://doi.org/10.1021/acs.chemrestox.7b00131)

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)

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

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ChemBioChem : 18 : 618-622 : [DOI : 10.1002/cbic.201600675](https://doi.org/10.1002/cbic.201600675)

Sébastien Lyonnais, Aleix Tarrés-Soler, Anna Rubio-Cosials, Anna Cuppari, Reicy Brito, Joaquim Jaumot, Raimundo Gargallo, Marta Vilaseca, Cristina Silva, Anton Granzhan, Marie-Paule Teulade-Fichou, Ramon Eritja, Maria Solà (2017 Mar 9)

The human mitochondrial transcription factor A is a versatile G-quadruplex binding protein.

Scientific reports : 7 : 43992 : [DOI : 10.1038/srep43992](https://doi.org/10.1038/srep43992)

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Exploring the mechanism of inhibition of human telomerase by cysteine-reactive compounds.

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Année de publication : 2016

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Biochimie : 128-129 : 133-137 : [DOI : 10.1016/j.biochi.2016.08.004](https://doi.org/10.1016/j.biochi.2016.08.004)

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Linking of Antitumor trans NHC-Pt(II) Complexes to G-Quadruplex DNA Ligand

Candidats médicaments et sondes pour les structures secondaires des acides nucléiques

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Bioconjugate chemistry : 27 : 1456-70 : [DOI : 10.1021/acs.bioconjchem.6b00079](https://doi.org/10.1021/acs.bioconjchem.6b00079)

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

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

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

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Photoactivatable platinum(II) terpyridine derivatives for G-quadruplex DNA double anchoring

Inorganica Chimica Acta : 452 : 152-158 : [DOI : 10.1016/j.ica.2016.02.033](https://doi.org/10.1016/j.ica.2016.02.033)

Année de publication : 2015

Matjaž Bončina, Črtomir Podlipnik, Ivo Piantanida, Julita Eilmes, Marie-Paule Teulade-Fichou, Gorazd Vesnaver, Jurij Lah (2015 Nov 8)

Thermodynamic fingerprints of ligand binding to human telomeric G-

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Nucleic acids research : 43 : 10376-86 : [DOI : 10.1093/nar/gkv1167](https://doi.org/10.1093/nar/gkv1167)

Patrick Merle, Marine Gueugneau, Marie-Paule Teulade-Fichou, Mélanie Müller-Barthélémy, Simon Amiard, Emmanuel Chautard, Corinne Guetta, Véronique Dedieu, Yves Communal, Jean-Louis Mergny, Maria Gallego, Charles White, Pierre Verrelle, Andreï Tchirkov (2015 Nov 7)

Highly efficient radiosensitization of human glioblastoma and lung cancer cells by a G-quadruplex DNA binding compound.

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

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Efficient inhibition of human AP endonuclease 1 (APE1) via substrate masking by abasic site-binding macrocyclic ligands.

Chemical communications (Cambridge, England) : 51 : 15948-15951 : [DOI : 10.1039/c5cc06084b](https://doi.org/10.1039/c5cc06084b)

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

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Aggregating distyrylpyridinium dye as a bimodal structural probe for G-quadruplex DNA

New Journal of Chemistry : 39 : 5931-5935 : [DOI : 10.1039/C5NJ01325A](https://doi.org/10.1039/C5NJ01325A)

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Aurèle Piazza, Michael Adrian, Frédéric Samazan, Brahim Heddi, Florian Hamon, Alexandre Serero, Judith Lopes, Marie-Paule Teulade-Fichou, Anh Tuân Phan, Alain Nicolas (2015 May 10)

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The EMBO journal : 34 : 1718-1734 : [DOI : 10.15252/emboj.201490702](https://doi.org/10.15252/emboj.201490702)

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Marko Trajkovski, Elodie Morel, Florian Hamon, Sophie Bombard, Marie-Paule Teulade-Fichou, Janez Plavec (2015 Apr 8)

Interactions of Pt-ttpp with G-Quadruplexes Originating from Promoter Region of the c-myc Gene Deciphered by NMR and Gel Electrophoresis Analysis.

Chemistry (Weinheim an der Bergstrasse, Germany) : 21 : 7798-807 : [DOI :](https://doi.org/10.1002/chem.201500347)

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Stabilization of the G-quadruplex at the VEGF IRES represses cap-independent translation.

RNA biology : 12 : 320-329 : [DOI : 10.1080/15476286.2015.1017236](https://doi.org/10.1080/15476286.2015.1017236)

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Année de publication : 2014

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