

# Paola Barbara Arimondo

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113 papers	3,086 citations	30 h-index	50 g-index
125 ext. papers	3,663 ext. citations	6.5 avg, IF	5.1 L-index

#	Paper	IF	Citations
113	The triple helix: 50 years later, the outcome. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, 5123-38	20.1	272
112	DNA methylation inhibitors in cancer: recent and future approaches. <i>Biochimie</i> , <b>2012</b> , 94, 2280-96	4.6	162
111	The timeline of epigenetic drug discovery: from reality to dreams. <i>Clinical Epigenetics</i> , <b>2019</b> , 11, 174	7.7	143
110	Thirty years of Escherichia coli DNA gyrase: from in vivo function to single-molecule mechanism. <i>Biochimie</i> , <b>2007</b> , 89, 490-9	4.6	95
109	Targeting DNA methylation with small molecules: what's next?. <i>Journal of Medicinal Chemistry</i> , <b>2015</b> , 58, 2569-83	8.3	90
108	Selective non-nucleoside inhibitors of human DNA methyltransferases active in cancer including in cancer stem cells. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 701-13	8.3	84
107	DNA methyltransferase inhibitors in cancer: a chemical and therapeutic patent overview and selected clinical studies. <i>Expert Opinion on Therapeutic Patents</i> , <b>2012</b> , 22, 1427-42	6.8	79
106	Mechanistic insights on the inhibition of c5 DNA methyltransferases by zebularine. <i>PLoS ONE</i> , <b>2010</b> , 5, e12388	3.7	79
105	DNA Methylation Targeting: The DNMT/HMT Crosstalk Challenge. <i>Biomolecules</i> , <b>2017</b> , 7,	5.9	77
104	Towards the sustainable discovery and development of new antibiotics. <i>Nature Reviews Chemistry</i> , <b>2021</b> , 1-24	34.6	77
103	Synthesis and evaluation of analogues of N-phthaloyl-L-tryptophan (RG108) as inhibitors of DNA methyltransferase 1. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 421-34	8.3	72
102	DNA methyltransferase inhibitors in cancer: From pharmacology to translational studies. <i>Biochemical Pharmacology</i> , <b>2017</b> , 129, 1-13	6	66
101	Synthesis and biological activity of 6H-isoindolo[2,1-a]indol-6-ones, analogues of batracylin, and related compounds. <i>European Journal of Medicinal Chemistry</i> , <b>2006</b> , 41, 379-86	6.8	60
100	C5-DNA methyltransferase inhibitors: from screening to effects on zebrafish embryo development. <i>ChemBioChem</i> , <b>2011</b> , 12, 1337-45	3.8	58
99	Energetics of strand-displacement reactions in triple helices: a spectroscopic study. <i>Journal of Molecular Biology</i> , <b>1999</b> , 291, 1035-54	6.5	54
98	Identification of novel inhibitors of DNA methylation by screening of a chemical library. <i>ACS Chemical Biology</i> , <b>2013</b> , 8, 543-8	4.9	45
97	Rapid synthesis of new DNMT inhibitors derivatives of procainamide. <i>ChemBioChem</i> , <b>2012</b> , 13, 157-65	3.8	43

96	Chemical modification of the third strand: differential effects on purine and pyrimidine triple helix formation. <i>Biochemistry</i> , <b>2002</b> , 41, 357-66	3.2	42
95	New insights on the mechanism of quinoline-based DNA Methyltransferase inhibitors. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 6293-302	5.4	41
94	Design, synthesis and biological evaluation of 4-amino-N- (4-aminophenyl)benzamide analogues of quinoline-based SGI-1027 as inhibitors of DNA methylation. <i>ChemMedChem</i> , <b>2014</b> , 9, 590-601	3.7	41
93	Unusual DNA conformations: implications for telomeres. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2002</b> , 2, 627-44		40
92	Design and optimization of camptothecin conjugates of triple helix-forming oligonucleotides for sequence-specific DNA cleavage by topoisomerase I. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 3132-40	5.4	39
91	Synthesis and biological activity of sulfonamide derivatives of epipodophyllotoxin. <i>Journal of Medicinal Chemistry</i> , <b>2004</b> , 47, 2365-74	8.3	38
90	Synthesis and biological study of a new series of 4Rdemethylepipodophyllotoxin derivatives. <i>Journal of Medicinal Chemistry</i> , <b>2005</b> , 48, 593-603	8.3	36
89	Triple helix formation by (G,A)-containing oligonucleotides: asymmetric sequence effect. <i>Biochemistry</i> , <b>1998</b> , 37, 16627-35	3.2	35
88	Combined analysis of DNA methylation and cell cycle in cancer cells. <i>Epigenetics</i> , <b>2015</b> , 10, 82-91	5.7	34
87	DNA methyltransferase assays. <i>Methods in Molecular Biology</i> , <b>2011</b> , 791, 157-77	1.4	34
86	The DNMT3A R882H mutant displays altered flanking sequence preferences. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 3130-3139	20.1	33
85	HU binds and folds single-stranded DNA. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, 1026-36	20.1	33
84	DNA methylation associated with polycomb repression in retinoic acid receptor $\beta$ silencing. <i>FASEB Journal</i> , <b>2013</b> , 27, 1468-78	0.9	32
83	Development of a universal radioactive DNA methyltransferase inhibition test for high-throughput screening and mechanistic studies. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, e185	20.1	30
82	A directional nucleation-zipping mechanism for triple helix formation. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, 5407-15	20.1	30
81	Properly substituted analogues of BIX-01294 lose inhibition of G9a histone methyltransferase and gain selective anti-DNA methyltransferase 3A activity. <i>PLoS ONE</i> , <b>2014</b> , 9, e96941	3.7	29
80	Triplex formation on DNA targets: how to choose the oligonucleotide. <i>Biochemistry</i> , <b>2008</b> , 47, 12277-89	3.2	29
79	Pyrimidine morpholino oligonucleotides form a stable triple helix in the absence of magnesium ions. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 270, 363-9	3.4	29

78	Recognition and cleavage of DNA by rebeccamycin- or benzopyridoquinoxaline conjugated of triple helix-forming oligonucleotides. <i>Bioorganic and Medicinal Chemistry</i> , <b>2000</b> , 8, 777-84	3.4	28
77	Preparation and characterization of dialkylcarbamato derivatives of niobium and tantalum. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1996</b> , 311-319		28
76	Rational Design of Bisubstrate-Type Analogues as Inhibitors of DNA Methyltransferases in Cancer Cells. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 4665-4679	8.3	26
75	Exploring the cellular activity of camptothecin-triple-helix-forming oligonucleotide conjugates. <i>Molecular and Cellular Biology</i> , <b>2006</b> , 26, 324-33	4.8	26
74	Microtubule-Driven Stress Granule Dynamics Regulate Inhibitory Immune Checkpoint Expression in T Cells. <i>Cell Reports</i> , <b>2019</b> , 26, 94-107.e7	10.6	26
73	Synergistic chromatin repression of the tumor suppressor gene RARB in human prostate cancers. <i>Epigenetics</i> , <b>2014</b> , 9, 477-82	5.7	25
72	Molecular basis of the targeting of topoisomerase II-mediated DNA cleavage by VP16 derivatives conjugated to triplex-forming oligonucleotides. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, 1900-11	20.1	25
71	Identification of novel quinazoline derivatives as potent antiplasmodial agents. <i>European Journal of Medicinal Chemistry</i> , <b>2019</b> , 161, 277-291	6.8	25
70	Preparation of phenylethylbenzamide derivatives as modulators of DNMT3 activity. <i>MedChemComm</i> , <b>2013</b> , 4, 1562	5	23
69	Cytisine-like alkaloids from <i>Ormosia hosiei</i> Hemsl. & E.H. Wilson. <i>Phytochemistry</i> , <b>2014</b> , 107, 97-101	4	22
68	A Quinoline-Based DNA Methyltransferase Inhibitor as a Possible Adjuvant in Osteosarcoma Therapy. <i>Molecular Cancer Therapeutics</i> , <b>2018</b> , 17, 1881-1892	6.1	22
67	DNA interaction and cytotoxicity of a new series of indolo[2,3-b]quinoxaline and pyridopyrazino[2,3-b]indole derivatives. <i>Chemico-Biological Interactions</i> , <b>2001</b> , 138, 59-75	5	21
66	Targeting topoisomerase I cleavage to specific sequences of DNA by triple helix-forming oligonucleotide conjugates. A comparison between a rebeccamycin derivative and camptothecin. <i>Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie</i> , <b>1999</b> , 322, 785-90		21
65	Directing topoisomerase I mediated DNA cleavage to specific sites by camptothecin tethered to minor- and major-groove ligands. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 3045-8	16.4	20
64	The past and presence of gene targeting: from chemicals and DNA via proteins to RNA. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 373,	5.8	19
63	Dichapetalins from <i>Dichapetalum</i> species and their cytotoxic properties. <i>Phytochemistry</i> , <b>2013</b> , 94, 184-94		19
62	Identification of a novel quinoline-based DNA demethylating compound highly potent in cancer cells. <i>Clinical Epigenetics</i> , <b>2019</b> , 11, 68	7.7	18
61	Inhibition studies of DNA methyltransferases by maleimide derivatives of RG108 as non-nucleoside inhibitors. <i>Future Medicinal Chemistry</i> , <b>2017</b> , 9, 1465-1481	4.1	18

60	Synthesis and antiproliferative activity of basic ethers of 1,2-dihydropyrrolo[1,2-a]indole, 6H-isoindolo[2,1-a]indole, and 6H-benz[5,6]isoindolo[2,1-a]indole. <i>Oncology Research</i> , <b>2003</b> , 13, 537-49	4.8	18
59	DNA Methyltransferase Inhibitors: Development and Applications. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 945, 431-473	3.6	17
58	Design and synthesis of new non nucleoside inhibitors of DNMT3A. <i>Bioorganic and Medicinal Chemistry</i> , <b>2015</b> , 23, 5946-53	3.4	16
57	Hijacking DNA methyltransferase transition state analogues to produce chemical scaffolds for PRMT inhibitors. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 373,	5.8	16
56	Potency of inhibition of human DNA topoisomerase I by flavones assessed through physicochemical parameters. <i>Free Radical Biology and Medicine</i> , <b>2011</b> , 51, 1406-10	7.8	16
55	Single-molecule observations of topotecan-mediated TopIB activity at a unique DNA sequence. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, 2301-10	20.1	16
54	Activation of camptothecin derivatives by conjugation to triple helix-forming oligonucleotides. <i>Biochemistry</i> , <b>2005</b> , 44, 4171-80	3.2	16
53	Relative DNA binding affinity of helix 3 homeodomain analogues, major groove binders, can be rapidly screened by displacement of prebound ethidium bromide. A comparative study. <i>Organic and Biomolecular Chemistry</i> , <b>2004</b> , 2, 915-21	3.9	16
52	Triple helix-forming oligonucleotides conjugated to indolocarbazole poisons direct topoisomerase I-mediated DNA cleavage to a specific site. <i>Bioconjugate Chemistry</i> , <b>2001</b> , 12, 501-9	6.3	16
51	Replication-fork stalling and processing at a single psoralen interstrand crosslink in <i>Xenopus</i> egg extracts. <i>PLoS ONE</i> , <b>2011</b> , 6, e18554	3.7	15
50	Identification of epigenetic factors regulating the mesenchyme to epithelium transition by RNA interference screening in breast cancer cells. <i>BMC Cancer</i> , <b>2016</b> , 16, 700	4.8	15
49	Contributions of the D-Ring to the activity of etoposide against human topoisomerase II—potential interactions with DNA in the ternary enzyme–drug–DNA complex. <i>Biochemistry</i> , <b>2011</b> , 50, 5058-66	3.2	14
48	Natural Products and Chemical Biology Tools: Alternatives to Target Epigenetic Mechanisms in Cancers. <i>Chemical Record</i> , <b>2018</b> , 18, 1854-1876	6.6	14
47	Sequence-specific targeting of IGF-I and IGF-IR genes by camptothecins. <i>FASEB Journal</i> , <b>2010</b> , 24, 2235-44	4.9	13
46	Detection of competing DNA structures by thermal gradient gel electrophoresis: from self-association to triple helix formation by (G,A)-containing oligonucleotides. <i>Nucleic Acids Research</i> , <b>2001</b> , 29, E15	20.1	13
45	Synthesis and Crystal Structure of a Self-Assembled, Octanuclear Oxo-Tantalum(V) Derivative Containing the First Example of a Transition Metal M(8)(μ <sub>3</sub> -O)(12) Cage. <i>Inorganic Chemistry</i> , <b>1998</b> , 37, 5507-5511	5.1	13
44	Position- and orientation-specific enhancement of topoisomerase I cleavage complexes by triplex DNA structures. <i>Nucleic Acids Research</i> , <b>2004</b> , 32, 5163-73	20.1	12
43	Consequences of combining siRNA-mediated DNA methyltransferase 1 depletion with 5-aza-2Rdeoxycytidine in human leukemic KG1 cells. <i>Oncotarget</i> , <b>2015</b> , 6, 15265-82	3.3	12

42	Disruptor of telomeric silencing 1-like (DOT1L): disclosing a new class of non-nucleoside inhibitors by means of ligand-based and structure-based approaches. <i>Journal of Computer-Aided Molecular Design</i> , <b>2018</b> , 32, 435-458	4.2	11
41	Novel carbamate derivatives of 4-beta-amino-4RO-demethyl-4-desoxypodophyllotoxin as inhibitors of topoisomerase II: synthesis and biological evaluation. <i>Organic and Biomolecular Chemistry</i> , <b>2005</b> , 3, 1074-80	3.9	11
40	Improved synthesis of daunomycin conjugates with triplex-forming oligonucleotides. The polypurine tract of HIV-1 as a target. <i>Bioorganic and Medicinal Chemistry</i> , <b>2005</b> , 13, 3209-18	3.4	11
39	Synthesis of novel 3-halo-3-nitroflavanones and their activities as DNA methyltransferase inhibitors in cancer cells. <i>European Journal of Medicinal Chemistry</i> , <b>2020</b> , 186, 111829	6.8	11
38	Commercial reverse transcriptase as source of false-positive strand-specific RNA detection in human cells. <i>Biochimie</i> , <b>2011</b> , 93, 1731-7	4.6	10
37	Targeting MDR1 gene: synthesis and cellular study of modified daunomycin-triplex-forming oligonucleotide conjugates able to inhibit gene expression in resistant cell lines. <i>Molecular Pharmacology</i> , <b>2008</b> , 73, 1568-77	4.3	10
36	Identification and optimization of hydrazone-gallate derivatives as specific inhibitors of DNA methyltransferase 3A. <i>Future Medicinal Chemistry</i> , <b>2016</b> , 8, 373-80	4.1	9
35	Spatial organization of topoisomerase I-mediated DNA cleavage induced by camptothecin-oligonucleotide conjugates. <i>Nucleic Acids Research</i> , <b>2003</b> , 31, 4031-40	20.1	9
34	Wandering along the epigenetic timeline. <i>Clinical Epigenetics</i> , <b>2020</b> , 12, 97	7.7	8
33	Specific hypomethylated CpGs at the IGF2 locus act as an epigenetic biomarker for familial adenomatous polyposis colorectal cancer. <i>Epigenomics</i> , <b>2010</b> , 2, 365-75	4.4	8
32	The chromosomal protein HMG-D binds to the TAR and RBE RNA of HIV-1. <i>FEBS Letters</i> , <b>2000</b> , 485, 47-52;8		8
31	Demethylation by low-dose 5-aza-2Rdeoxycytidine impairs 3D melanoma invasion partially through miR-199a-3p expression revealing the role of this miR in melanoma. <i>Clinical Epigenetics</i> , <b>2019</b> , 11, 9	7.7	7
30	Optimized synthesis and enhanced efficacy of novel triplex-forming camptothecin derivatives based on gimatecan. <i>Bioconjugate Chemistry</i> , <b>2009</b> , 20, 666-72	6.3	7
29	Triple helix-forming oligonucleotides conjugated to new inhibitors of topoisomerase II: synthesis and binding properties. <i>Bioconjugate Chemistry</i> , <b>2005</b> , 16, 873-84	6.3	7
28	Targeting Germ Cell Tumors with the Newly Synthesized Flavanone-Derived Compound MLo1302 Efficiently Reduces Tumor Cell Viability and Induces Apoptosis and Cell Cycle Arrest. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	7
27	Topoisomerase action on short DNA duplexes reveals requirements for gate and transfer DNA segments. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 25407-15	5.4	6
26	The Many Faces of EpigeneticsOxford, December 2017. <i>Epigenetics</i> , <b>2019</b> , 14, 623-631	5.7	5
25	Semisynthetic neoboutomellerone derivatives as ubiquitin-proteasome pathway inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , <b>2012</b> , 20, 819-31	3.4	5

24	Directing Topoisomerase I Mediated DNA Cleavage to Specific Sites by Camptothecin Tethered to Minor- and Major-Groove Ligands. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 3135-3138	3.6	5
23	DNA Methylation Bisubstrate Inhibitors Are Fast-Acting Drugs Active against Artemisinin-Resistant Parasites. <i>ACS Central Science</i> , <b>2020</b> , 6, 16-21	16.8	5
22	DNA Methylation Analysis of ChIP Products at Single Nucleotide Resolution by Pyrosequencing . <i>Methods in Molecular Biology</i> , <b>2015</b> , 1315, 315-33	1.4	4
21	Structure-Guided Optimization of DNA Methyltransferase Inhibitors <b>2016</b> , 53-73		4
20	Assembly of the Entire Carbon Backbone of a Stereoisomer of the Antitumor Marine Natural Product Hemicalide. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 2745-2749	4.8	4
19	Synthesis and Biological Activity of a Cytostatic Inhibitor of MLLr Leukemia Targeting the DOT1L Protein. <i>Molecules</i> , <b>2021</b> , 26,	4.8	4
18	Regioselective and efficient halogenation of 4,5-unsubstituted alkyl 3-hydroxypyrrole/3-hydroxythiophene-2-yl-carboxylates. <i>Tetrahedron Letters</i> , <b>2017</b> , 58, 2537-2541	2	3
17	Novel Quinoline Compounds Active in Cancer Cells through Coupled DNA Methyltransferase Inhibition and Degradation. <i>Cancers</i> , <b>2020</b> , 12,	6.6	3
16	Sequence-specific base pair mimics are efficient topoisomerase IB inhibitors. <i>Biochemistry</i> , <b>2012</b> , 51, 43-51	3.2	3
15	Triplex- versus Quadruplex-Specific Ligands and Telomerase Inhibition315-336		3
14	Bisubstrate-Type Chemical Probes Identify GRP94 as a Potential Target of Cytosine-Containing Adenosine Analogs. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 952-961	4.9	2
13	Camptothecins for drug design, cancer cell death and gene targeting <b>2008</b> , 173-197		2
12	Targeting DOT1L for mixed-lineage rearranged leukemia <b>2020</b> , 81-99		2
11	Malaria Parasite Stress Tolerance Is Regulated by DNMT2-Mediated tRNA Cytosine Methylation. <i>MBio</i> , <b>2021</b> , e0255821	7.8	2
10	The methylome of Biomphalaria glabrata and other mollusks: enduring modification of epigenetic landscape and phenotypic traits by a new DNA methylation inhibitor. <i>Epigenetics and Chromatin</i> , <b>2021</b> , 14, 48	5.8	2
9	Anti-neoplastic and demethylating activity of a newly synthesized flavanone-derived compound in Renal Cell Carcinoma cell lines. <i>Biomedicine and Pharmacotherapy</i> , <b>2021</b> , 141, 111681	7.5	2
8	Study of the Effect of Substituents of ortho-Phenylenediamines in the Opening of Lactones and Lactams for Access to Benzimidazol-2-yl Alkanols and Benzimidazol-2-yl Alkylamines. <i>Synlett</i> , <b>2020</b> , 31, 1216-1220	2.2	1
7	A New Generation of Cell-Targeted Drugs for Cancer Treatment <b>2014</b> , 177-191		1

6	Alternative synthetic route to annulated diaminopyrimidines. <i>Tetrahedron Letters</i> , <b>2014</b> , 55, 3901-3904	2	1
5	Procainamide-SAHA Fused Inhibitors of hHDAC6 Tackle Multidrug-Resistant Malaria Parasites. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 10403-10417	8.3	1
4	A novel screening strategy to identify histone methyltransferase inhibitors reveals a crosstalk between DOT1L and CARM1.. <i>RSC Chemical Biology</i> , <b>2022</b> , 3, 456-467	3	0
3	Chemical Compounds Targeting DNA Methylation and Hydroxymethylation. <i>Topics in Medicinal Chemistry</i> , <b>2019</b> , 255-286	0.4	
2	Direct Synthesis of Allyl Amines with 2-Nitrosulfonamide Derivatives via the Tsuji-Trost Reaction. <i>ChemistryOpen</i> , <b>2021</b> , 10, 1166-1169	2.3	
1	Quinazoline-based analog of adenine as an antidote against MLL-rearranged leukemia cells: synthesis, inhibition assays and docking studies.. <i>Future Medicinal Chemistry</i> , <b>2022</b> , 14, 557-570	4.1	