Paola Barbara Arimondo

List of Publications by Year in Descending Order

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	A novel screening strategy to identify histone methyltransferase inhibitors reveals a crosstalk between DOT1L and CARM1.. *RSC Chemical Biology*, **2022**, 3, 456-467	3	0
112	Quinazoline-based analog of adenine as an antidote against MLL-rearranged leukemia cells: synthesis, inhibition assays and docking studies.. *Future Medicinal Chemistry*, **2022**, 14, 557-570	4.1	
111	Malaria Parasite Stress Tolerance Is Regulated by DNMT2-Mediated tRNA Cytosine Methylation. *MBio*, **2021**, e0255821	7.8	2
110	The methylome of Biomphalaria glabrata and other mollusks: enduring modification of epigenetic landscape and phenotypic traits by a new DNA methylation inhibitor. *Epigenetics and Chromatin*, **2021**, 14, 48	5.8	2
109	Procainamide-SAHA Fused Inhibitors of hHDAC6 Tackle Multidrug-Resistant Malaria Parasites. *Journal of Medicinal Chemistry*, **2021**, 64, 10403-10417	8.3	1
108	Targeting Germ Cell Tumors with the Newly Synthesized Flavanone-Derived Compound MLo1302 Efficiently Reduces Tumor Cell Viability and Induces Apoptosis and Cell Cycle Arrest. *Pharmaceutics*, **2021**, 13,	6.4	7
107	Towards the sustainable discovery and development of new antibiotics. *Nature Reviews Chemistry*, **2021**, 1-24	34.6	77
106	Synthesis and Biological Activity of a Cytostatic Inhibitor of MLLr Leukemia Targeting the DOT1L Protein. *Molecules*, **2021**, 26,	4.8	4
105	Direct Synthesis of Allyl Amines with 2-Nitrosulfonamide Derivatives via the Tsuji-Trost Reaction. *ChemistryOpen*, **2021**, 10, 1166-1169	2.3	
104	Anti-neoplastic and demethylating activity of a newly synthetized flavanone-derived compound in Renal Cell Carcinoma cell lines. *Biomedicine and Pharmacotherapy*, **2021**, 141, 111681	7.5	2
103	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. *Synlett*, **2020**, 31, 1216-1220	2.2	1
102	Bisubstrate-Type Chemical Probes Identify GRP94 as a Potential Target of Cytosine-Containing Adenosine Analogs. *ACS Chemical Biology*, **2020**, 15, 952-961	4.9	2
101	Wandering along the epigenetic timeline. *Clinical Epigenetics*, **2020**, 12, 97	7.7	8
100	Novel Quinoline Compounds Active in Cancer Cells through Coupled DNA Methyltransferase Inhibition and Degradation. *Cancers*, **2020**, 12,	6.6	3
99	Targeting DOT1L for mixed-lineage rearranged leukemia **2020**, 81-99		2
98	Synthesis of novel 3-halo-3-nitroflavanones and their activities as DNA methyltransferase inhibitors in cancer cells. *European Journal of Medicinal Chemistry*, **2020**, 186, 111829	6.8	11
97	DNA Methylation Bisubstrate Inhibitors Are Fast-Acting Drugs Active against Artemisinin-Resistant Parasites. *ACS Central Science*, **2020**, 6, 16-21	16.8	5

96	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. *Clinical Epigenetics*, **2019**, 11, 9	7.7	7
95	Identification of a novel quinoline-based DNA demethylating compound highly potent in cancer cells. *Clinical Epigenetics*, **2019**, 11, 68	7.7	18
94	The Many Faces of EpigeneticsOxford, December 2017. *Epigenetics*, **2019**, 14, 623-631	5.7	5
93	The timeline of epigenetic drug discovery: from reality to dreams. *Clinical Epigenetics*, **2019**, 11, 174	7.7	143
92	Chemical Compounds Targeting DNA Methylation and Hydroxymethylation. *Topics in Medicinal Chemistry*, **2019**, 255-286	0.4	
91	Assembly of the Entire Carbon Backbone of a Stereoisomer of the Antitumor Marine Natural Product Hemicalide. *Chemistry - A European Journal*, **2019**, 25, 2745-2749	4.8	4
90	Microtubule-Driven Stress Granule Dynamics Regulate Inhibitory Immune Checkpoint Expression in T Cells. *Cell Reports*, **2019**, 26, 94-107.e7	10.6	26
89	Identification of novel quinazoline derivatives as potent antiplasmodial agents. *European Journal of Medicinal Chemistry*, **2019**, 161, 277-291	6.8	25
88	Hijacking DNA methyltransferase transition state analogues to produce chemical scaffolds for PRMT inhibitors. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 373,	5.8	16
87	The past and presence of gene targeting: from chemicals and DNA via proteins to RNA. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 373,	5.8	19
86	The DNMT3A R882H mutant displays altered flanking sequence preferences. *Nucleic Acids Research* , **2018**, 46, 3130-3139	20.1	33
85	Disruptor of telomeric silencing 1-like (DOT1L): disclosing a new class of non-nucleoside inhibitors by means of ligand-based and structure-based approaches. *Journal of Computer-Aided Molecular Design*, **2018**, 32, 435-458	4.2	11
84	Natural Products and Chemical Biology Tools: Alternatives to Target Epigenetic Mechanisms in Cancers. *Chemical Record*, **2018**, 18, 1854-1876	6.6	14
83	A Quinoline-Based DNA Methyltransferase Inhibitor as a Possible Adjuvant in Osteosarcoma Therapy. *Molecular Cancer Therapeutics*, **2018**, 17, 1881-1892	6.1	22
82	Regioselective and efficient halogenation of 4,5-unsubstituted alkyl 3-hydroxypyrrole/3-hydroxythiophene-2-yl-carboxylates. *Tetrahedron Letters*, **2017**, 58, 2537-2541	2	3
81	Rational Design of Bisubstrate-Type Analogues as Inhibitors of DNA Methyltransferases in Cancer Cells. *Journal of Medicinal Chemistry*, **2017**, 60, 4665-4679	8.3	26
80	DNA methyltransferase inhibitors in cancer: From pharmacology to translational studies. *Biochemical Pharmacology*, **2017**, 129, 1-13	6	66
79	Inhibition studies of DNA methyltransferases by maleimide derivatives of RG108 as non-nucleoside inhibitors. *Future Medicinal Chemistry*, **2017**, 9, 1465-1481	4.1	18

78	DNA Methylation Targeting: The DNMT/HMT Crosstalk Challenge. *Biomolecules*, **2017**, 7,	5.9	77
77	DNA Methyltransferase Inhibitors: Development and Applications. *Advances in Experimental Medicine and Biology*, **2016**, 945, 431-473	3.6	17
76	Identification and optimization of hydrazone-gallate derivatives as specific inhibitors of DNA methyltransferase 3A. *Future Medicinal Chemistry*, **2016**, 8, 373-80	4.1	9
75	Identification of epigenetic factors regulating the mesenchyme to epithelium transition by RNA interference screening in breast cancer cells. *BMC Cancer*, **2016**, 16, 700	4.8	15
74	Structure-Guided Optimization of DNA Methyltransferase Inhibitors **2016**, 53-73		4
73	New insights on the mechanism of quinoline-based DNA Methyltransferase inhibitors. *Journal of Biological Chemistry*, **2015**, 290, 6293-302	5.4	41
72	Design and synthesis of new non nucleoside inhibitors of DNMT3A. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 5946-53	3.4	16
71	Targeting DNA methylation with small molecules: what's next?. *Journal of Medicinal Chemistry*, **2015**, 58, 2569-83	8.3	90
70	Combined analysis of DNA methylation and cell cycle in cancer cells. *Epigenetics*, **2015**, 10, 82-91	5.7	34
69	Consequences of combining siRNA-mediated DNA methyltransferase 1 depletion with 5-aza-2′-deoxycytidine in human leukemic KG1 cells. *Oncotarget*, **2015**, 6, 15265-82	3.3	12
68	DNA Methylation Analysis of ChIP Products at Single Nucleotide Resolution by Pyrosequencing . *Methods in Molecular Biology*, **2015**, 1315, 315-33	1.4	4
67	Design, synthesis and biological evaluation of 4-amino-N- (4-aminophenyl)benzamide analogues of quinoline-based SGI-1027 as inhibitors of DNA methylation. *ChemMedChem*, **2014**, 9, 590-601	3.7	41
66	A New Generation of Cell-Targeted Drugs for Cancer Treatment **2014**, 177-191		1
65	Synthesis and evaluation of analogues of N-phthaloyl-l-tryptophan (RG108) as inhibitors of DNA methyltransferase 1. *Journal of Medicinal Chemistry*, **2014**, 57, 421-34	8.3	72
64	Cytisine-like alkaloids from Ormosia hosiei Hemsl. & E.H. Wilson. *Phytochemistry*, **2014**, 107, 97-101	4	22
63	Selective non-nucleoside inhibitors of human DNA methyltransferases active in cancer including in cancer stem cells. *Journal of Medicinal Chemistry*, **2014**, 57, 701-13	8.3	84
62	Alternative synthetic route to annulated diaminopyrimidines. *Tetrahedron Letters*, **2014**, 55, 3901-3904	2	1
61	Properly substituted analogues of BIX-01294 lose inhibition of G9a histone methyltransferase and gain selective anti-DNA methyltransferase 3A activity. *PLoS ONE*, **2014**, 9, e96941	3.7	29

60	Synergistic chromatin repression of the tumor suppressor gene RARB in human prostate cancers. *Epigenetics*, **2014**, 9, 477-82	5.7	25
59	Dichapetalins from Dichapetalum species and their cytotoxic properties. *Phytochemistry*, **2013**, 94, 184-94	4	19
58	Preparation of phenylethylbenzamide derivatives as modulators of DNMT3 activity. *MedChemComm*, **2013**, 4, 1562	5	23
57	Identification of novel inhibitors of DNA methylation by screening of a chemical library. *ACS Chemical Biology*, **2013**, 8, 543-8	4.9	45
56	DNA methylation associated with polycomb repression in retinoic acid receptor silencing. *FASEB Journal*, **2013**, 27, 1468-78	0.9	32
55	Development of a universal radioactive DNA methyltransferase inhibition test for high-throughput screening and mechanistic studies. *Nucleic Acids Research*, **2013**, 41, e185	20.1	30
54	Semisynthetic neoboutomellerone derivatives as ubiquitin-proteasome pathway inhibitors. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 819-31	3.4	5
53	Rapid synthesis of new DNMT inhibitors derivatives of procainamide. *ChemBioChem*, **2012**, 13, 157-65	3.8	43
52	DNA methyltransferase inhibitors in cancer: a chemical and therapeutic patent overview and selected clinical studies. *Expert Opinion on Therapeutic Patents*, **2012**, 22, 1427-42	6.8	79
51	DNA methylation inhibitors in cancer: recent and future approaches. *Biochimie*, **2012**, 94, 2280-96	4.6	162
50	Sequence-specific base pair mimics are efficient topoisomerase IB inhibitors. *Biochemistry*, **2012**, 51, 43-51	3.2	3
49	Commercial reverse transcriptase as source of false-positive strand-specific RNA detection in human cells. *Biochimie*, **2011**, 93, 1731-7	4.6	10
48	Potency of inhibition of human DNA topoisomerase I by flavones assessed through physicochemical parameters. *Free Radical Biology and Medicine*, **2011**, 51, 1406-10	7.8	16
47	C5-DNA methyltransferase inhibitors: from screening to effects on zebrafish embryo development. *ChemBioChem*, **2011**, 12, 1337-45	3.8	58
46	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. *Biochemistry*, **2011**, 50, 5058-66	3.2	14
45	Replication-fork stalling and processing at a single psoralen interstrand crosslink in Xenopus egg extracts. *PLoS ONE*, **2011**, 6, e18554	3.7	15
44	DNA methyltransferase assays. *Methods in Molecular Biology*, **2011**, 791, 157-77	1.4	34
43	Sequence-specific targeting of IGF-I and IGF-IR genes by camptothecins. *FASEB Journal*, **2010**, 24, 2235-44	4.9	13

42	Specific hypomethylated CpGs at the IGF2 locus act as an epigenetic biomarker for familial adenomatous polyposis colorectal cancer. *Epigenomics*, **2010**, 2, 365-75	4.4	8
41	Mechanistic insights on the inhibition of c5 DNA methyltransferases by zebularine. *PLoS ONE*, **2010**, 5, e12388	3.7	79
40	Optimized synthesis and enhanced efficacy of novel triplex-forming camptothecin derivatives based on gimatecan. *Bioconjugate Chemistry*, **2009**, 20, 666-72	6.3	7
39	Triplex formation on DNA targets: how to choose the oligonucleotide. *Biochemistry*, **2008**, 47, 12277-89	3.2	29
38	Single-molecule observations of topotecan-mediated TopIB activity at a unique DNA sequence. *Nucleic Acids Research*, **2008**, 36, 2301-10	20.1	16
37	Targeting MDR1 gene: synthesis and cellular study of modified daunomycin-triplex-forming oligonucleotide conjugates able to inhibit gene expression in resistant cell lines. *Molecular Pharmacology*, **2008**, 73, 1568-77	4.3	10
36	The triple helix: 50 years later, the outcome. *Nucleic Acids Research*, **2008**, 36, 5123-38	20.1	272
35	Camptothecins for drug design, cancer cell death and gene targeting **2008**, 173-197		2
34	HU binds and folds single-stranded DNA. *Nucleic Acids Research*, **2008**, 36, 1026-36	20.1	33
33	Thirty years of Escherichia coli DNA gyrase: from in vivo function to single-molecule mechanism. *Biochimie*, **2007**, 89, 490-9	4.6	95
32	Exploring the cellular activity of camptothecin-triple-helix-forming oligonucleotide conjugates. *Molecular and Cellular Biology*, **2006**, 26, 324-33	4.8	26
31	Molecular basis of the targeting of topoisomerase II-mediated DNA cleavage by VP16 derivatives conjugated to triplex-forming oligonucleotides. *Nucleic Acids Research*, **2006**, 34, 1900-11	20.1	25
30	Topoisomerase action on short DNA duplexes reveals requirements for gate and transfer DNA segments. *Journal of Biological Chemistry*, **2006**, 281, 25407-15	5.4	6
29	Synthesis and biological activity of 6H-isoindolo[2,1-a]indol-6-ones, analogues of batracylin, and related compounds. *European Journal of Medicinal Chemistry*, **2006**, 41, 379-86	6.8	60
28	Novel carbamate derivatives of 4-beta-amino-4RO-demethyl-4-desoxypodophyllotoxin as inhibitors of topoisomerase II: synthesis and biological evaluation. *Organic and Biomolecular Chemistry*, **2005**, 3, 1074-80	3.9	11
27	Triple helix-forming oligonucleotides conjugated to new inhibitors of topoisomerase II: synthesis and binding properties. *Bioconjugate Chemistry*, **2005**, 16, 873-84	6.3	7
26	Activation of camptothecin derivatives by conjugation to triple helix-forming oligonucleotides. *Biochemistry*, **2005**, 44, 4171-80	3.2	16
25	Synthesis and biological study of a new series of 4Rdemethylepipodophyllotoxin derivatives. *Journal of Medicinal Chemistry*, **2005**, 48, 593-603	8.3	36

24	Improved synthesis of daunomycin conjugates with triplex-forming oligonucleotides. The polypurine tract of HIV-1 as a target. *Bioorganic and Medicinal Chemistry*, **2005**, 13, 3209-18	3.4	11
23	Position- and orientation-specific enhancement of topoisomerase I cleavage complexes by triplex DNA structures. *Nucleic Acids Research*, **2004**, 32, 5163-73	20.1	12
22	Synthesis and biological activity of sulfonamide derivatives of epipodophyllotoxin. *Journal of Medicinal Chemistry*, **2004**, 47, 2365-74	8.3	38
21	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. *Organic and Biomolecular Chemistry*, **2004**, 2, 915-21	3.9	16
20	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. *Oncology Research*, **2003**, 13, 537-49	4.8	18
19	Spatial organization of topoisomerase I-mediated DNA cleavage induced by camptothecin-oligonucleotide conjugates. *Nucleic Acids Research*, **2003**, 31, 4031-40	20.1	9
18	Design and optimization of camptothecin conjugates of triple helix-forming oligonucleotides for sequence-specific DNA cleavage by topoisomerase I. *Journal of Biological Chemistry*, **2002**, 277, 3132-40	5.4	39
17	Unusual DNA conformations: implications for telomeres. *Anti-Cancer Agents in Medicinal Chemistry*, **2002**, 2, 627-44		40
16	A directional nucleation-zipping mechanism for triple helix formation. *Nucleic Acids Research*, **2002**, 30, 5407-15	20.1	30
15	Chemical modification of the third strand: differential effects on purine and pyrimidine triple helix formation. *Biochemistry*, **2002**, 41, 357-66	3.2	42
14	Directing Topoisomerase I Mediated DNA Cleavage to Specific Sites by Camptothecin Tethered to Minor- and Major-Groove Ligands. *Angewandte Chemie*, **2001**, 113, 3135-3138	3.6	5
13	Directing topoisomerase I mediated DNA cleavage to specific sites by camptothecin tethered to minor- and major-groove ligands. *Angewandte Chemie - International Edition*, **2001**, 40, 3045-8	16.4	20
12	DNA interaction and cytotoxicity of a new series of indolo[2,3-b]quinoxaline and pyridopyrazino[2,3-b]indole derivatives. *Chemico-Biological Interactions*, **2001**, 138, 59-75	5	21
11	Detection of competing DNA structures by thermal gradient gel electrophoresis: from self-association to triple helix formation by (G,A)-containing oligonucleotides. *Nucleic Acids Research*, **2001**, 29, E15	20.1	13
10	Triple helix-forming oligonucleotides conjugated to indolocarbazole poisons direct topoisomerase I-mediated DNA cleavage to a specific site. *Bioconjugate Chemistry*, **2001**, 12, 501-9	6.3	16
9	Recognition and cleavage of DNA by rebeccamycin- or benzopyridoquinoxaline conjugated of triple helix-forming oligonucleotides. *Bioorganic and Medicinal Chemistry*, **2000**, 8, 777-84	3.4	28
8	Pyrimidine morpholino oligonucleotides form a stable triple helix in the absence of magnesium ions. *Biochemical and Biophysical Research Communications*, **2000**, 270, 363-9	3.4	29
7	The chromosomal protein HMG-D binds to the TAR and RBE RNA of HIV-1. *FEBS Letters*, **2000**, 485, 47-52	3.8	8

6	Targeting topoisomerase I cleavage to specific sequences of DNA by triple helix-forming oligonucleotide conjugates. A comparison between a rebeccamycin derivative and camptothecin. *Comptes Rendus De LrAcadTmie Des Sciences SIie 3, Sciences De La Vie*, **1999**, 322, 785-90		21
5	Energetics of strand-displacement reactions in triple helices: a spectroscopic study. *Journal of Molecular Biology*, **1999**, 291, 1035-54	6.5	54
4	Triple helix formation by (G,A)-containing oligonucleotides: asymmetric sequence effect. *Biochemistry*, **1998**, 37, 16627-35	3.2	35
3	Synthesis and Crystal Structure of a Self-Assembled, Octanuclear Oxo-Tantalum(V) Derivative Containing the First Example of a Transition Metal M(8)(&mgr;-O)(12) Cage. *Inorganic Chemistry*, **1998**, 37, 5507-5511	5.1	13
2	Preparation and characterization of dialkylcarbamato derivatives of niobium and tantalum. *Journal of the Chemical Society Dalton Transactions*, **1996**, 311-319		28
1	Triplex- versus Quadruplex-Specific Ligands and Telomerase Inhibition315-336		3